

**MULTIMEDIA PRODUCTS**

**AS**

**COPYRIGHT WORKS**



Thesis submitted for the degree of

**Doctor of Philosophy**

at the University of Leicester

**by**

**Irini A. Stamatoudi**

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EU TMR Marie Curie Research Fellow

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**June 1999**

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**To the memory of my grandfather, Kostas**

UNIVERSITY OF LEICESTER  
DEPARTMENT OF LAW  
Ph.D Thesis

**Multimedia Products as Copyright Works**

**Irini A. Stamatoudi**

***ABSTRACT***

This thesis deals with the issue whether multimedia products can be made to fit in one of the existing categories of copyright works. This thesis focuses on the 2nd generation of multimedia products, which feature integration and interactivity at a highly advanced level. The exercise is undertaken specifically in relation to literary works, compilations, databases, audiovisual works and computer programs. For those countries that do not consider classification a necessary prerequisite of copyright protection the issue whether and how multimedia products can be protected under the general category of copyright works is also examined. In this exercise of qualification the various consistencies as well as inconsistencies between multimedia products on the one hand and the existing categories of copyright works, their nature and their existing regimes of protection, on the other hand, are examined both at national (UK) and at international and comparative level.

The conclusion is reached that, although primitive forms of multimedia works can be protected either as databases or as audiovisual works, this is not always the case with the advanced forms of multimedia products. In relation to the latter there is a clear, absolute and immediate need for new legislation, which will take into account their particularities (especially the fact that they combine vast amounts of different expressions and data, integration (transformation) of this data and interactivity) and which will offer them a regime of protection tailored to their specific needs. This regime of protection is described as a mixture of the regime of protection for films and the *sui generis* regime for databases. The latter should, however, only apply to those multimedia products that are not capable of attracting copyright protection.



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## PREFACE

Mr Richard Lehrberg, executive vice president and managing director of Interplay Productions in California, said the following at a conference in Cannes in 1994 on "New technologies and their influence on international audiovisual law", in an attempt to define the notion of multimedia:

"It appears that [once] there were some blind men who had never seen an elephant before, so they were taken to the circus in order to examine one. They all gathered around the elephant and they all touched it in order to get a feeling of what the elephant was like. They were then asked to describe their experience. One said that the elephant was like a rope, another said that the elephant was like a tree trunk, another said that the elephant was like a wall, another said that the elephant was like a big palm leaf, another said it was like a boa constrictor. The fact is that all of them were right because they had touched different parts of the elephant. The one who had thought it was like a rope had touched the tail; the one who had thought it was like a tree trunk had touched a leg; the one who had thought it was like a leaf had touched an ear; the one who had thought it was like a boa constrictor had touched the trunk. They were all correct but they were also all wrong because they were unaware of the totality. Certainly, an elephant is greater than some of its parts. Multimedia is like the elephant and we are blinded by our past."<sup>1</sup>

Multimedia is even more a phenomenon than a product or service, although we are only concerned with the product or service here. Nowadays it is one of the most popular and widely used words, which describes many different things at the same time. However, very few people can really understand what multimedia is all about. This is largely so because technological developments in the area have been

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<sup>1</sup> R Lehrberg, "*Blind men and the elephant: what does multimedia really mean?*", ICC Conference on New technologies and their influence on international audiovisual law, Cannes 1994, Proceedings, at 9.

extremely rapid and most of the time people approach them only through the experience they already have as publishers, film directors or producers, computer manufacturers and so on. This approach is not entirely wrong if we consider that multimedia is essentially an extension of what already exists on the market, i.e. books, films or television. At the same time we have to bear in mind that it can also be something very different from its predecessors, in which case it will necessarily demand very different solutions, particularly in the field of intellectual property. It is these solutions which constitute the focus of this thesis.

Multimedia will be considered from the point of view of intellectual property and specifically of copyright.<sup>2</sup> The central question will be to determine whether multimedia products constitute different products from those already in existence, and if they do, whether these products require different legal protection. The examination of copyright solutions that will be adequate for multimedia products will be limited to the copyright protection afforded to such products, this being considered the closest and most appropriate form of protection for them.

Before we enter into the discussion of the substantive issues of copyright protection in relation to multimedia products, we should perhaps try and describe what is after all a very complex and diverse course of production and marketing of multimedia products. At present, multimedia works are often commissioned by software houses. As soon as all the elements that make up a multimedia product are brought together by the team of authors that has been commissioned to create the image of the work, as it is presented in the interface with the consumer or user, the software house fits it in with the required operating software and in the vast majority of these cases it also supplies the trademark under which the multimedia product will be marketed, as well as the distribution system. However, it should be noted that this is only a customary way of producing and marketing multimedia products and it is by no means the only way of doing so.

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<sup>2</sup> There are, of course, other legal fields of protection for multimedia according to the national jurisdiction being considered, like, for example, passing-off, unfair competition law, economic and other torts, contract, criminal law, and so on.

The description of this process could lead to the suggestion that trademark law may provide the appropriate tools to protect multimedia products. Whilst a registered trademark may be a valuable tool of protection, it is submitted that it can by no means protect the whole product. As will be shown in more detail at a later stage, the real value of a multimedia product is often found in its content. That content is not in all circumstances protectable through the use of trademark law. The public may be attracted to a certain content even if it is offered in a plagiarised version to which another trademark has been affixed. Trademark law would in those cases not be able to prevent a substantial loss being incurred by the producer of the original multimedia product. Legal protection for multimedia products must therefore go beyond the confines of trademark law and it is to the appropriate format for this wider protection that we now turn.

## CHAPTER I

### INTRODUCTION

#### 1.1 General introductory comments

When a thesis is dealing with multimedia, it can only reach a certain level of scientific certainty in relation to new technology products. The reason is obvious. 'Multimedia' is a newly evolved term, which brings with it the imponderables every newly evolved term brings: vagueness and uncertainty.

Multimedia products have introduced new forms of expression by combining the existing ones with new technologies, thus creating a new concept. Many experts in the field state that multimedia have signified the commencement of a new era in relation to communications. The essential ingredient they have is not solely interactivity, as one would expect (although interactivity still is the key feature for this kind of communication), but the amount of data they carry. Information as such has become extremely important. The more information you possess, the more power you have. The possession of information is the key to the successful creation and marketing of a multimedia product. The information contained in it is the crucial factor when consumers decide to purchase. The need for a free flow of information round the world is the ultimate reason for the financing of communication industries. The ability to distribute such information is the parameter by which financial success in the international market is measured. Information has to do with development, evolution, culture, civilisation and state power. Interactivity is valuable in so far as it facilitates the manipulation of information and responds to the needs of the user with regard to that particular information.

In this era multimedia are bound to be at the centre of developments because the advantages of multimedia applications are so great. The public's access to information and their concept of communication will change the face of

communication as a whole. There will also be an impact on inter-human relations and on social structures. Space and time will become more readily available and accurate and comprehensive information will become a possible target. Creators will be afforded more opportunities to create as a result of the great demand for creative content in the new technology products. Communication and intellectual property industries will be given more opportunities for exploitation and thus the convergence of existing technologies will lead to the emergence of a new breed of products. This will be a substantial push for technology. Boundaries will be pushed out. Cultures and ideas will work more closely together. It is time we started seeking solutions at an international rather than at national level.

If we want to translate the fast-growing commercial importance of multimedia products on the European market into figures, we should refer to those most recently available. In 1989 the multimedia market was found to have a global turnover for multimedia industries of US\$3 billion. This turnover increased five fold in 1995 and 1996.<sup>3</sup> Other statistics show that the multimedia market was US\$1.4 billion, excluding video games, whilst in 1997 it was expected to reach US\$23.9 billion.<sup>4</sup> Multimedia products in CD-ROMs, which is the most popular form of distribution, have increased their market turnover 45 times between 1990 and 1995, with the US and Europe being market leaders. As the statistics show the US led the pace until 1993, when Europe seems to have taken over. Of course part of the reason why these statistics look impressive is that the spread of the new technology took place mainly in this specific period. Before that time this form of computer technology was not widely available, and even if it were, the cost was in most cases prohibitive. Between the end of the last decade and the end of this one most households in the developed world will have become equipped with CD-ROM devices and will subscribe to an on-line service, either for domestic or for professional use.

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<sup>3</sup> See G Vercken, *"Guide pratique du droit d'auteur pour les producteurs de multimédia"*, commissioned by the European Communities, Directorate General XIII (Translic) from A.I.D.A.A. Association Internationale des Auteurs de l'Audiovisuel, 1994, at 16seq.

<sup>4</sup> M Radcliffe, *"Legal issues in new media: multimedia for publishers"* in D Campbell and S Cotter (eds), *International intellectual property law. New developments*, J Wiley & Sons, 1995, at 181.



After the big bang of this period, increases in market figures will stop being so dramatic. However, multimedia products will still occupy a substantial part of the market. People who have already bought the relevant equipment will become regular clients of the technology industry.

Apart from the trends in technology and information culture, law is bound to play one of the most important roles in the area. The obvious regime for the protection of these works is intellectual property. Works which possess any kind of creativity, originality and intellectual effort come within the scope of the national intellectual property laws and international treaties in this area. There existed some time in the past when the law, apart from regulating the social and technological evolutions that had already taken place, was also having an educative role, foreseeing developments and problems and introducing legal solutions even before the occurrence of such problems. Nowadays, it is evident that the law has long been left behind, especially in the area of technology. That is partly due to the fact that lawyers are not always so familiar with technical issues, much less, high-tech issues and that they prefer those kinds of problems to find their natural solutions in their natural environment. It seems in this sense that as well as the natural law in legal history and theory, there may also be a natural law in the self-rescuing sense in technology as well. Later in this thesis, we will show that perhaps this is not always very far from the truth.

Although multimedia products are of such high economic importance, there is no direct legislation to protect them. That, of course, does not mean that there is no protection whatsoever in relation to these products. The protection afforded to them is essentially an amalgam of the existing regimes of protection for other similar intellectual property works, as well as the subject of protection for other branches of law, such as contract and tort, etc. There is also some part of the literature that alleges that in fact no differentiation is to be found in terms of protection between the traditional categories of intellectual property works and the new technology products. Yet many initiatives have taken place on both a national and international level, not directly relating to multimedia products, but to digital rights and rights in databases.

Here, and especially in the recent EU Directive on databases, the introduction along with copyright protection of a *sui generis* regime of protection for compilations of data is indicative of the need for separate treatment of the intellectual property products of the new generation.

With regard to intellectual property the regime of protection which seems more appropriate for multimedia works is that of copyright protection. Multimedia works, though sometimes functional and utilitarian, are in most cases considered to be works within the scope of the Berne Convention and therefore of most of the national laws of States. Moreover, there are only rare cases where they can also be covered by other regimes, as for example patent protection. We will consider this possibility in a relevant chapter.

In the course of analysing the copyright protection of multimedia products we will examine issues, such as, for example, the legal definition of multimedia products, their regime of protection under current national, European and international laws, clearing rights in contents and competition issues. We will also propose the most convenient solutions from the point of view of the author.

Before we get into the main body of this thesis, it is important to make clear that we will deal with multimedia products essentially from the point of view of copyright. The fact that we refer to them more as products and less as works might already look peculiar. This, however, accords with the latest changes in the area of intellectual property. The immediate question is whether 'works' and 'products' are interchangeable concepts. In general they are not but in this thesis it is considered that they are by reason of the fact that intellectual property today encompasses works in which the functional aspect is prevalent rather than the creative one. In such a situation the concept of product rather than work is more appropriate. But this is not the main reason since in order for a work to qualify as work, it has also to come within the scope of the definition. If the work is merely of a functional and utilitarian nature this definition is bound not to cover it, apart from certain cases in common law countries. The essential reason for naming multimedia works 'products' is the fact that the actual focus of their creation is economic. Multimedia works acquire

their significance partly from their creation and the new methods of communication they represent but substantially more from the market value they command. They are basically commodities and they are treated as such. Any intellectual property right protection is aiming at this target. This is, of course, not very different from the existing traditional intellectual property works. But in the latter case their market value is less considerable than that of multimedia products. Perhaps less relevant are rights other than economic rights. Because of this new intellectual property platform immediate legal solutions are needed.

The key subject of this thesis is less to describe what the situation is at present rather than to look into the future, albeit short term. Are the existing intellectual property laws capable of accommodating multimedia products? If not, what is required: transformations in the existing regimes of protection or *sui generis* legislation? How far has copyright survived the test of time and technology? Where are we heading in this respect if present and forthcoming developments in the area are bound to change the face of copyright?

## 1.2 History of copyright and redefinition of the term

Intellectual property is a clear case where law follows developments. Its function is post-regulative rather than one forming the rights and obligations in relation to intellectual property products. The history of technological change shows that new forms of expression have invariably led to new types of creative works.<sup>5</sup> The invention of the printing press technique by Gutenberg was an essential push to the emergence of copyright law. Then the photograph, film, radio and television appeared.<sup>6</sup> It took quite some time for these forms of expression to be considered

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<sup>5</sup> M Turner, "Do the old legal categories fit the new multimedia products? A multimedia CD-ROM as a film" [1995] 3 EIPR 107.

<sup>6</sup> At first people tried to fit the new phenomenon into existing categories. For example, films were approached as talking books and sets of pictures. They were only given protection in their own right once their commercial exploitation became sizeable enough to demand proper protection to avoid losses from copying.

media in their own right, with an independent regime of protection adjusted to their own needs. It was not until 1956 for example that a separate regime for protecting films was introduced into the UK's Copyright Act.

Today we are facing the same process of inventing multimedia. We have both the general feeling that we know what it is all about along with the strange feeling that we are still not completely familiar with the full technology and reality. This is due to the following reasons. Firstly, the more multimedia products that enter our lives, the more we familiarise ourselves with them and gain the feeling we understand them. Secondly, it is too early to trace and understand the full set of problems multimedia products are bound to present. In this respect we are blinded by our past. We can only appreciate things and problems with the knowledge we possess, which inevitably restricts itself to the problems traditional intellectual property works present. Foreseeing the future with regard to this is not easy. The technology progresses so quickly that any solutions are outdated before people even become familiar with them.

Existing intellectual property rights present an advantage. They have established world-wide rights, long practised and well known. Lawyers can deal more easily with a situation where they know both the ally and the enemy. It is hard to admit that new rights are called for because any new right or development creates uncertainty and awkward situations.

All the above explain the different reactions of people to new technologies, depending on which angle they view them from.

"Book people see talking books. TV people see interactive game shows. Movie people see either choose-your-own-ending movies or a way to film some cut scenes or set-ups and slap in an arcade action sequence".<sup>7</sup>

Yet, the technological evolution has already called, if not for *sui generis* solutions in the area of intellectual property law, then at least for substantial

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<sup>7</sup> R Lehrberg, *op. cit.* note 1, at 9.

transformations.

It is evident, that since copyright is supposed to be the intellectual property law closest to multimedia products, its stretching to include new technologies has touched on its original concept. Copyright works were always held to be works that involved some kind of creativity (mostly for continental law countries) or some kind of original effort (for common law countries). Copyright, as a substantial and concrete form of protection, has been stretched to cover a large variety of works which were not originally considered as coming explicitly within the scope of international conventions and national legislation. A recent example is databases, which have up to now only been explicitly covered by the TRIPs agreement. By using copyright protection to protect works other than the ones which were originally considered to be literary or artistic, the essential components of copyright have been stretched.

One of the ways copyright has been revised is that the new works included are at most works of a functional and utilitarian nature and by reason of this particular nature can only involve a low degree of originality, if any originality at all. Secondly, until recently any work required some kind of fixation on a material support with a degree of permanence in order to be protected. Now, however, copyright protection has been extended to intellectual property services or to works which are not fixed or not fixed permanently on a material support, as for example the memory of a computer. It also covers works with a life of some seconds while being transmitted through the cable of a network. These changes have placed the importance on the work as such, as an immaterial good and less on what it looks like. Moreover, the works which copyright has been extended to cover are not the outcome of the effort of a single person or of a limited number of persons. Usually there is a sizeable team of persons involved in their production. Thus, there are also many works included in such a work. These works are regarded as information rather than the artistic creation or expression of the personality of the authors. The aim of the new intellectual property works is not to entertain an audience. It is more to educate an audience in the sense of informing it. These works are essentially of an informative nature with the direct aim not to be original, different or new, but com-

prehensive, efficient and functional.

Thus works of this kind are less and less considered works in the original sense of the word. Technology sets its own rules. These kinds of works are approached from their commercial point of view. They are commoditised and mainly called products. It is not only the technological reality, however, that makes the rules. There is a more immediate force leading technology. This is the market reality. No matter how important something may be from an educational or technological point of view, if it cannot be marketed successfully, or if there is no market at all for it, it is bound not to survive. Multimedia products are important and pose important questions of law because of their market success and their influence on communications. Of course, we are almost saying that the market successfully accommodates only useful and worthy products, but because the market can be somewhat unpredictable and does not respond to such simplistic evaluations, this can not be the case.

Thus, the notion of copyright has been partially adapted to the new reality. In common law countries such as the United Kingdom there has been no great transformation. Copyright there was rather more economically orientated from the start. The degree of originality is also very low, since it only involves skill and labour. In other words, works which are not merely copied and involve the previously mentioned prerequisites are copyrightable. The common law countries' approach is a limited one in relation to the rest of Europe. Here copyright has become more and more market orientated and any alleged moral right infringement is decided on the grounds of the types of work involved. Reasons to justify strong copyright protection are sometimes lacking.

If we are to describe the latest trends in copyright we could say that it has become more utilitarian in nature. The originality criterion appears to have been lowered. The forms seem to have dematerialised. Information has taken the place of works and the author's role has been redefined. It is no longer purely creative. But even in the original creative model, the author's role should not be allowed to impede the evolution that is taking place in this area. Either way that evolution should be

accommodated, albeit not automatically. As with any transformation, it has many repercussions. The moral rights of authors will be revised and competition law will be relaxed to allow co-operation of industries which would be forbidden in another context. Clearing rights techniques will call for collective administration and remuneration and the rightholders will essentially be rewarded through the payment of a lump sum. How far the evolution will go is unpredictable. For example, will compulsory licences be introduced? Will multimedia products come within the scope of copyright with the same term of protection and the same bundle of exclusive rights or will a *sui generis* regime of protection be introduced? How much are we to expect from intellectual property law? As a substantial part of the literature suggests, where technology sets problems it is technology in most cases which has to find the solutions as well.<sup>8</sup> Yet, the imposition or facilitation of these solutions might be an issue for intellectual property law.

### 1.3 The choice between patent and copyright protection

If we are to limit their protection to the ambit of intellectual property protection, multimedia works, by reason of their hybrid nature, can form the subject matter of protection of many intellectual property rights. The categorisation and the choice of regime of protection are subject to the following issues. Firstly, it depends which part of a multimedia product we are seeking to protect, and secondly it depends on the structure and the whole manufacturing process of this particular product. In other words, it depends on whether this product is linked and in what sense it is linked to its operating computer program and whether it meets the requirements of more than one set of intellectual property rights.

For the purposes of this thesis we will make the distinction between the various parts of a multimedia product and we will distinguish any rights on the

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<sup>8</sup> « The answer to the machine is the machine », Ch Clark, “*The answer to the machine is the machine*” in B Hugenholtz (ed), The future of copyright in a digital environment, Kluwer Law International, 1996, at 139.

operating software of this product from the multimedia work itself. The multimedia work will be defined as a compilation of pre-existing or commissioned works or other data. We will also point out that this kind of distinction, though logical and coherent at this stage of technological evolution, cannot be considered to be watertight for the future. If more and more technical devices incorporate more and more technical functions, it is very likely that we will end up with comprehensive regimes of protection for the full device, whether this is a computer program or anything else.

As intellectual property stands today, both at national and international level, it is essentially a bipolar system. This means it is divided into the two broad categories of industrial property (mainly regulated by the Paris Convention for the protection of industrial property, 1883) and of literary and artistic property (mainly ruled by the Berne Convention for the protection of literary and artistic works, 1886).<sup>9</sup> The dominant paradigms in these two regimes of protection are patents and copyright respectively.

Although the rationale behind these two intellectual property rights seems at first glance diametrically opposite, serving different functions and therefore bringing with it different economic and social premises in relation to the works protected, more and more deviant cases arise which make the border line between industrial property protection and copyright permeable. This underlines the need either for a different regulation (which is neither patent nor copyright), a mixed regulation (which is both patent and copyright) or a hybrid regulation (which generates a *sui generis* right encompassing basic characteristics of both types of protection). These products are almost entirely new technology products which combine technical devices with traditional design of works, as identified in the Berne Convention. The debate as to whether certain kinds of new technology products come within the scope of one or other regime of protection, or if they require a *sui generis* treatment is also not a new one. It essentially started when the discussion about the protection of

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<sup>9</sup> TRIPs (1994) also in the context of GATT and the World Trade plays a very important regulative role both for industrial and for literary and artistic property.



computer programs started in the 1980's.<sup>10</sup>

If we are first to examine the issue of how close multimedia products are to patents, we have to see to what extent multimedia meets the criteria for qualifying for this regime of protection. TRIPs, which clarified and improved upon the Paris Convention in respect of the criteria for patentability, provides that an invention is patentable when it is new, involves an inventive step and is capable of industrial application.<sup>11</sup> In relation to a multimedia work, as long as we are dealing with the compilation of information as such, irrespective of the technical devices that have manufactured it and that run it, there is nothing to advocate for inventive step or industrial application. Even the notion of an invention itself is non-existent in this case. Invention is linked to the idea of a technical device. The multimedia work is not a device but a work and from this point of view it seems to come closer to the definition of the specific subject matter that comes under the Berne Convention.

Even if we were to consider the multimedia work in conjunction with its operating program, the software tool that runs the application, and if we considered that the latter is the dominant part which has to be protected and whose protection covers the protection of the whole compilation, the multimedia work would still not, in most cases, qualify for patentability. TRIPs, in article 10.1 provides that computer programs, whether in source or object form, shall be protected as literary works under the Berne Convention.<sup>12</sup> This, of course, does not exclude cases where computer programs can constitute the subject matter of patent protection. However, these cases have to be a computer program and something else which goes beyond

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<sup>10</sup> See also J Reichman, "*Legal hybrids between the patent and copyright paradigms*" (1994) 94 Columbia Law Review 2432.

<sup>11</sup> Article 27(1). A footnote in this article indicates that "[f]or the purposes of this article, the terms 'inventive step' and 'capable of industrial application' may be deemed by a Member to be synonymous with the terms 'non-obvious' and 'useful' respectively". Thus, the wording of TRIPs covers also the wording of the requirements of the US patent law which provide for novelty, utility and non-obviousness. 35 USC §§ 101-103, 271 (1988).

<sup>12</sup> See also the European Patent Convention at article 52.2c, and article 1(2)(c) of the English Patents Act 1977.

the computer program itself. A possible example of such a case would be a computer program related invention.<sup>13</sup>

Applying this train of thought to multimedia, it is perhaps clear up to now, that even the assimilation of the multimedia work into its operating software would not be enough to make it qualify for a patent protection. But, if what we are dealing with is an invention run by some kind of software which functions interactively, or which has a multimedia application closely relating to the invention as one of its functions, then the whole invention is very likely to qualify as a patent. But, if we can still distinguish the multimedia work as an independent part of it holding its separate and distinctive value, then this multimedia work is not patentable. Although these cases may at present look extreme and rather unlikely, there is nothing to prevent inventors in the future from coming up with such kinds of inventions, especially in the area of robotics. The rule at present though remains that multimedia products, as well as software, are outside the scope of patents.

The area which seems to fit better with multimedia is copyright. Multimedia products do not come explicitly within the scope of works under any international or national legal instrument relating to copyright protection. This, however, is not due to the fact that they constitute subject matter which is excluded from the scope of copyright. It is rather due to the fact that, firstly, this kind of work could not have been foreseen at the time that most international instruments were drafted, and, secondly, they are too novel for the legal literature to decide where to put them. Thus, any legal solution relating to multimedia is necessarily the outcome of treatment analogous to existing regimes of protection.

The notion of a 'work' under the Berne Convention is quite loose. It includes a large number of works which if they possess some kind of originality and are expressed in one or other form, qualify for copyright protection as literary and artistic works. Copyright seems to be the most appropriate regime of protection for many reasons. First, although multimedia works are not as such protected by copyright they come very close to traditional copyrightable works such as

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<sup>13</sup> See Ch Reed, Computer law, 3rd ed., Blackstone Press Ltd, 1996, at 142.

compilations, films, computer programs, etc. Secondly, if multimedia works possess something this is more likely to be originality rather than any kind of novelty or inventive step. Although they are meant to be marketed, they are not meant to be industrially applicable and confer on their rightholder any kind of absolute exclusive patent-like rights which will justify the investment that has to be undertaken for their creation.

The economic and social premises which underlie patents are essentially different from those relating to copyright. The former confer a kind of protection on the rightholder that will permit him, for a limited period in time to exploit exclusively, not only the functional expression of his invention, but also the idea itself, so as to have the incentive to produce it commercially and possibly invent further devices in the future. From this point of view, patent protection, though shorter in time, is stronger. This is also the very reason why many companies producing new technology products strive for the patentability of their products more than for any kind of copyright protection. Copyright is by definition a looser right, as it aims to prevent the copying of the whole or a substantial part of the work. The idea as such is not protected; only its expression is protected. In the end the idea itself can be as precious as its expression in the market of new technology products, especially if the products at issue come close enough to functional and utilitarian works possessing the minimum requirements for copyright protection.

An issue which arises here is how much the scope of copyright can be extended to accommodate new technology works, especially when these works depart substantially from copyright's traditional requirements. As we will explain in chapter I, the notion of dematerialisation outweighs any notion of fixation, especially in permanent form. Secondly, the originality criterion is defined on the grounds of structure and arrangement rather than on the originality of the work itself. We mentioned that structure and arrangement are also subject to the use and presentation by the user of the compilation on his screen, an issue which points to how absurd and ill-defined such a criterion can sometimes be. Moreover, the importance of the originality criterion as such comes substantially down the list. The more the new

works involve data and the more they involve it in a comprehensive way, the more these works become functional and utilitarian. The problem is how low are we to draw the line of originality in order to accommodate these products. We either run the risk of affording more protection than is needed to certain works, or not affording adequate protection to others. Even the design of a *sui generis* regime presents difficulties in so far as it derogates from the common established and known principles of the traditional intellectual property laws. But it is also a decision of policy whether we will continue to stretch a notion such as that of copyright so far as to in fact revise it. The question remains as to what extent this is advisable. Multimedia constitutes a characteristic example of such a situation. This thesis will consider to what degree the existing legislation is capable of providing them with the adequate level of protection.

#### **1.4 Notions relating to multimedia**

As will be explained in more detail in the definition chapter, multimedia is held to be a term which includes anything from enterprises to networks and means of distribution, from sources to material supports and from products to services. This, however, is likely to cause confusion not only about what we mean when we refer to the notion of multimedia, but also to what degree this notion is the same or related to notions such as the Internet, the information superhighway, visual reality, hypermedia, hypertext and so on. For the sake of clarification it is perhaps advisable to define the scope of the above mentioned terms.

The information superhighway and the Internet are somehow interchangeable terms. An information superhighway is an international digital network into which interactive multimedia networks serving the interests and needs of multiple users and services are integrated. The Internet is today's version of the information superhighway. It is an (unstructured) interconnection of a vast unknown number of computers world-wide. It is, in fact a network, which is accessible by any computer linked to it at any place or time. Internet initially set out in 1969 as a

system of networked computers (four in number at the start) of the US Department of Defence, known as ARPANET. It was designed in such a way so as to withstand the loss of numerous key computers and interconnections and still function in the event of war. The Internet can serve today as means of distributing multimedia services, in the same sense as any other on-line distribution service.

A form of distribution of multimedia is virtual reality. Virtual reality is a 3-D multimedia product or service. It is a way of enabling users to interact in real time with a computer simulated environment by entering this environment with their own human senses by means of special equipment, i.e. gloves, helmets, glasses, etc. A computer is used to map their body and senses directly into the digital world. Virtual reality, though still at a primitive stage, presents the most advanced form of multimedia applications and is used in entertainment, health and science. The creation of 3-D computer generated environments is limited only by the multimedia software designed to generate them and the computer processing power available to bring them to life.<sup>14</sup> Virtual reality requires immensely fast and powerful computing and apparently also poses metaphysical questions apart from questions of technology and law.

Hypertext is an underlying structure in multimedia design. It is an 'interlinkedness' between different elements of information, which allows the users to follow pathways in order to access that information in the order in which they wish to do so. 'Hypertext' makes this non-sequential approach to information possible by offering the very connections needed to jump instantly to other locations in a database or at any other site where one finds related information which interests one. The multimedia version of this technical concept is called hypermedia. Here the information elements may be text, sound, images or a combination of the three. Hypermedia really amounts to an environment of interconnected multimedia elements. However, in practice the terms 'hypertext' and 'hypermedia' are used interchangeably.

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<sup>14</sup> For further details see T Feldman, Multimedia in the 1990s. BNB Research Fund Report, The British Library, 1991.

Common to all the above notions, whether these are underlying multimedia technologies or distribution systems, is that they are only able to function in a digital environment, that they combine more than one different kind of expression and that they provide interactive services. A lot more could be said about technical notions and technology. It is submitted though that this brief outline of the environment in which multimedia operates is sufficient for the purposes of this thesis.

## CHAPTER II

### THE SCOPE OF MULTIMEDIA WORKS

#### 2.1 Definition of multimedia works

As previously mentioned, multimedia means many different things to different people. For example, it can mean enterprises, types of communication, products or services. It is rather an amorphous term. People understand it as interactive television, interactive guides in museums, shopping lists in electronic malls, schedules in train stations, on-line databases which can be retrieved world-wide from networks such as the Internet in the form of virtual reality, simple video, computer games, and so on.<sup>15</sup>

As we will see in more detail later on, all these products share characteristics that come within the definition of multimedia products and therefore belong to the same generation. However, they are also somewhat different from one another by reason of the particularities they present and the different purposes and functions they serve. This large and vague variety of products<sup>16</sup> that exists in the market constitutes

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<sup>15</sup> Multimedia and similar terms "are more and more used by different sets of people, in different circumstances for designating different kinds of applications based on different technologies and standards". EC Commission, DG XIII, Report on Multimedia, 30 September 1992, at 1, as referred by U Loewenheim in "*Multimedia and European copyright*" (1996) 27 IIC 41, at 42.

<sup>16</sup> By 'products' in this thesis, it is intended to include both products and services (on-line and off-line products) for reasons of economy and avoidance of repetition. However, wherever a different treatment is intended, products and services will be distinguished. Moreover, throughout this thesis multimedia works will occasionally be referred to as multimedia products. That will be so for two main reasons. Firstly, the customary term for these kind of works is established as multimedia products and secondly, this term puts the emphasis on the market value and significance of these works. We cannot disregard the fact that if it were not for their market success, multimedia products would not occupy such an important place in both the legal and economic literature. In fact, because the market success of intellectual property products is increasing significantly, they are valued and

the reason why multimedia is more of a phenomenon than a product which can be pinned down to certain particular functions and characteristics, remaining stable over several years.

Because multimedia is rather a new term, inextricably linked with technology and its progress, it is also a fast evolving term, which inevitably brings with it the consequences that every new term brings: broadness and ambiguity. Broadness has a positive connotation in so far as it signifies the capacity multimedia has to accommodate a vast range of things. Ambiguity has a negative connotation in so far as it signifies a reservation as to what it finally accommodates. Thus, multimedia is a notion both rich in content and at the same time vague. In the light of this, this thesis will deal with multimedia in a broad sense so as to encompass legal solutions which will not soon be outdated by reason of the development of technology in this area.

Multimedia cannot be categorised in one of the existing categories of media. It is rather a descriptive word for computer-based works (in which many technologies are combined) and media which were formerly used separately<sup>17, 18</sup>. In this sense multimedia is a category by itself. In broad terms it is used today as a

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approached from this point of view more and more. In many cases it is the market reality and the transactions that necessitate efficient legal solutions. Multimedia is one such case which underlines this. The contents of multimedia will be referred to as information or data for the purposes of this thesis. Once works have been digitised and can be freely circulated round the world in vast numbers, their function is mostly regarded as informative rather than anything else. This principal role is mirrored in the terminology. It also clearly describes the need for users of such products to possess and access as much information as possible. The accumulation of vast amounts of information in a particular field is the reason that multimedia is successful. Even if this information is works, it is still regarded as data, since it no longer performs the function a traditional work performs.

<sup>17</sup> See R Raysman, P Brown and J Neuburger, Multimedia law: forms and analysis, Law Journal Seminars-Press, 1995, at 1-2; and U Loewenheim, *op. cit.* note 15, at 42.

<sup>18</sup> Multimedia has also been described as an information system of audiovisual communication with the public which permits a user to consult even from a distance a database comprising of text, images, sound or messages of any nature and who receives in response up to minute information. J Buyle, "*Aspects contractuels relatifs à l'informatisation*" in Droit de l'informatique, enjeux, nouvelles responsabilités, Jeune Barreau, 1993, at 236.



generic concept, which encompasses new services of communication linked to digital techniques.<sup>19</sup> This notion of 'new' used to describe services is not, however, new in the literal meaning of the word. In fact, multimedia is a hybrid of heterogeneous technologies, which were formerly used separately and which now permit the exploitation of existing or newly created works in different formats and media.<sup>20</sup> It is a convergence of video, audio and telephony technologies.<sup>21</sup> This convergence signifies new co-existing types of communication, which separate the known material supports from the information they carry and store it in a digitised manner in PCs or create new information, irrespective of any material support.<sup>22</sup>

However, whatever may be the different definitions we give to multimedia, by natural assimilation between the object and its material support, multimedia is essentially used today solely to mean the marketed product, the commercial carrier of the work (often a material support), i.e. the CD-ROM, CD-I, DCC (digital compact cassette), Data Discman, mini-disc, DVD (digital video disc), interactive database on-line, and whatever other form its commercialisation might take.<sup>23</sup> And it is in this sense that we will use the term multimedia for the purposes of this thesis.

### 2.1.1 Definition

The main distinctive characteristic of multimedia is that its technology is meant to combine in a single medium, diverse types of works or information. In order for this combination to become possible a digital environment is required. The information has to be digitally processed, stored and accessed by a computer. Computers are the only media capable of performing such tasks in a digital environment. In addition to the conversion of the data to a digital format, this format also has

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<sup>19</sup> G Vercken, *op. cit.* note 3, at 14.

<sup>20</sup> See U Loewenheim, *op. cit.* note 15, at 42; and M Radcliffe, *op. cit.* note 4, at 181.

<sup>21</sup> J Cameron, "Approaches to the problems of multimedia" [1996] 3 EIPR 115.

<sup>22</sup> M Marinos, "Nomiki prostassia vasseon dedomenon. To idiaitero (sui generis) dikaioma tis odigias 96/9/EOK" [1997] 2 DEE 128.

<sup>23</sup> G Vercken, *op. cit.* note 3, at 14.

to offer, again with the aid of a computer, the option of interactivity, in other words the possibility of a dialogue between the user and the system.

Even though, as mentioned above, a single medium can technically be the combination of many different types of technology, the fact that an essential feature of a multimedia product is the convergence of multiple elements (works) on a single medium has led many commentators to think that the term itself is a misnomer.<sup>24</sup> 'Multi-media' literally signifies the existence of many (multi-) means of communication (media) rather than the multiplicity or mixture of many types or categories of works.<sup>25</sup> From this point of view a term which has been suggested by Professor Koumantos,<sup>26</sup> as being more appropriate, is the 'unimedium multiwork' (multioeuvre unimédia)<sup>27</sup>, or perhaps, a simpler abbreviation of it, 'unimedium'.<sup>28 29</sup>

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<sup>24</sup> The multimedia term was first used in the 1980s to designate the enterprises which were originally printing, publishing and advertising companies, though later they turned their interests to the audiovisual market after the deregulation of public audiovisual monopolies in Europe. They thus became multi-media companies. A Strowel and J-P Traille, Le droit d'auteur, du logiciel au multimédia (copyright, from software to multimedia), Bruylant, 1997, at 332.

<sup>25</sup> The term 'mixed media' is sometimes used as an alternative in the US. Just as multimedia this term is a misnomer. See B Lehman and R Brown, *"Intellectual Property and the National Information Infrastructure"*, The Report of the Working Group on Intellectual Property Rights, US Patent and Trademark Office, Washington D. C., September 1995, at 41.

<sup>26</sup> G Koumantos, *"Les aspects de droit internationale privé en matière d'infrastructure mondiale d'information"* [1996] *koinodikion* 2.B, p. 241, at 243.

<sup>27</sup> See also M Fiscor, *"New technologies and copyright: need for change, need for continuity"* in WIPO worldwide symposium on the future of copyright and neighbouring rights, Louvre Paris, June 1-3 1994, p. 209, at 227.

<sup>28</sup> See also M Raysman, P Brown and J Neuburger, *op. cit.* note 17, at 1-2, footnote 1 referring to Intellectual Property and the National Information Structure (Information Infrastructure Task Force September 1995, *op. cit.* note 25).

<sup>29</sup> This discussion has also been raised by other scholars in the area of information technology. Apart from the term unimedium, they also propose the terms monomedium, plurimedia, mediamix, hypermedia, polymedia, interactive integrated media or other. A Strowel, J-P Triaille, *op. cit.* note 24, at 331 and at 334. In relation to the 'interactive integrated media' term see D Monet, Le multimédia, Paris, Flammarion, 1995, at 8.

The latter term puts the emphasis on the single medium with which the consumers are confronted. Yet it does not exclude the significance of the contents that are included. In the final analysis it is the contents that make a multimedia product sell. The technology only makes it easily and readily available and perhaps commercially more attractive.

However, the term 'multimedia' is by now a well-established term in the area of information technology and as is often the case with law, it is the trend (or technology) that comes first and the law that follows. Since technology has imposed its terminology in practice, it is the 'multimedia' term that will be used for the purposes of this thesis as well.

As we described earlier, multimedia is an ill-defined notion by reason of its polymorphy.<sup>30</sup> The vast numbers of products (on-line and off-line) it comprises, makes it difficult to limit this notion to a specific and rigid definition. However, there are certain elements that characterise multimedia and that can therefore be found in any product coming within this category. *Multimedia is a product or service which*

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<sup>30</sup> It is very interesting to notice that in France, three official documents referring to multimedia have defined it in rather a contradictory way. The 1994 Théry Report (The information superhighways, at 14) defined multimedia as "a set of interactive services using solely digitised media, for the processing and transmission of information in all of its forms: text, data, sound, still images, animated real or virtual images". The Decree 93-1429 of 31 December 1993 relating to the obligatory legal deposit of certain works at the National Library (OJ, 1.1.1994, at 64), defined it as "a document which regroups two or more media (of the ones mentioned in its previous chapters). or which associates, on the same medium, two or more documents which are subject to the obligation of deposit (according to this Decree)". Lastly, an order of the French Ministry of Industry, Post, Telecommunications and External Commerce (2 March 1994, OJ 22.3.94), described the term as a concept which associates several modes of representation of information such as text, sound and image. N Muenchinger, which was the source of this information ([1996] 4 EIPR 186), points out that "the latter definitions do not make any reference to digitisation, processing or transmission of data, interactivity or services, nor do they refer to digitisation as a medium. [...] [T]he three official references to multimedia which exist thus far in France may in fact be contradictory". This is indicative of the confusion that reigns this area. Multimedia is a term, which, apart from the inherent difficulties its definition presents, also suffers from the difficulty of any definition which is subject to technological evolution in the area.

*combines and integrates in a single medium, in a digitised form, at least two<sup>31</sup> of the following elements: text, audio, still or moving images, computer programs and other data. It requires a software tool that allows for a substantial degree of interactivity and which allows for the retrieval and presentation of the above information.<sup>32</sup>* It is clear that the concept of interactivity (or even full integration) is a key one in this debate and one to which we will have to return at a later stage.

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<sup>31</sup> Some scholars would argue that even the inclusion of a single type of work in combination with a software tool suffices to create a multimedia work. A Strowel and J P Triaille, *op. cit.* note 24, at 335. Yet by bringing the border line down that far, one runs the risk of including in the notion of multimedia even traditional compilations of works, for which no matter how vast the number of works they incorporate is, a separate legal treatment is not needed in most cases. One of the characteristics of a multimedia product should be the combination of different kinds of works in one single digitised format on one medium. The software tool that operates the multimedia work should in this respect be distinguished from all the other works that are included and it should not be counted as one of them. If multimedia do not include more than one type of works, one is very likely to end up with a situation where even the simplest database or compilation would amount to a multimedia work. There is nothing in such a situation to advocate for a treatment different from the one the traditional copyright affords.

<sup>32</sup> The Commission of the European Union refers to multimedia products as « combinations of data and works of different kinds such as pictures (still or animated), text, music and software. These services are linked together by a common factor : the concept of interactivity, which will allow the contents themselves to be changed. The degree of interactivity necessary has still to be determined ». The Commission added that « [m]ost of these services will be generated by means of database. Another characteristic of the new services will be that the consumer will probably be charged for its use ». Green Paper on Copyright and Related Rights in the Information Society, COM (95) 382 final, at 19. According to the US White Paper on Intellectual Property and the National Information Infrastructure, « The very premise of a so-called 'multimedia' work is that it combines several different elements or types of works (e.g., text (literary works), sound (sound recordings), still images (pictorial works), and moving images (audiovisual works)) into a single medium (e.g., a CD-ROM)—not multiple media », at 41-42. See also B Wittweiler, « *Produktion von Multimedia und Urheberrecht aus schweizerischer Sicht* » (1995) 128 *Ufita* 5, at 6, who emphasises the importance of digitisation, the combination of more than one medium and interactivity.

Text, audio and images form, in fact, what we call the contents of a multimedia product. By *text* we mean any material in written form, such as literary works, magazines, newspapers, databases, data<sup>33</sup>, or even entries, instructions or guidelines, as these appear on the screen to assist navigation through the multimedia work. The last three, of course, are regarded more as operating the multimedia product materials and less as contents.<sup>34</sup> By *audio* we mean sounds (natural, instrumental or electronically generated), songs, speech and music. By *images* we mean any kind of still images, such as photos, graphics, artwork, or animated works and moving images, such as films and videos, plus any kind of computer generated pictures.

So far there are three key features which distinguish multimedia products from the existing traditional or conventional works. These are *digitisation*, *combination* (or better integration) *of different kinds of works or expressions* and *interactivity* and they have to exist cumulatively.

For the purposes of this thesis it should be noted that the degree of interactivity is capable of introducing differences in quality between the various multimedia products found on the market. Multimedia works with a primitive form of interactivity (such as electronic encyclopaedias or interactive databases) can still adequately be protected by the existing copyright legislation. This is the *first generation* of multimedia products. However, multimedia works with an advanced level of interactivity (and a sufficient degree of integration of their various elements) constitute the *second generation* of multimedia products. In this thesis we will primarily focus on the second generation of multimedia products.

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<sup>33</sup> Data is mentioned separately in the multimedia definition because many scholars do not consider it part of text. Mere factual data can also consist of figures or other information, but this would be a very restrictive definition of text.

<sup>34</sup> Some examples of these materials would be entries or indexes to the multimedia product, which also offer the pathways of browsing such a product and whose structure, whether simple or not, contributes to their market success or not necessary.

## **2.1.2 Digitisation**

### **2.1.2.1 General observations**

The importance of multimedia derives from the underlying technology of digitisation, which is the necessary prerequisite for any seamless combination of materials. Digitisation is not a new technological development. It appeared more or less when computers appeared and its function, though using many media to circulate its signals, has been inextricably linked with computers. Without the intervention of a computer at some stage digitisation would not have been possible.

Digital technology should be distinguished from its traditional counterpart, analogue technology. Analogue technology is the technology which has dominated the market up to now. Almost all audio-visual media, such as radio, broadcast television, audio and video cassettes, are all paradigms of analogue technology. Analogue technology stores information in the form of a continuous signal, which recognises changes in the information by moderating the amplitude (AM) on the frequency of the signal.<sup>35</sup> Digital technology stores any kind of information in a computer memory, after having translated it into binary code (a sequence of zeros and ones) with the help of a computer program. Because the digitised information is stored in a single format, with only two possible means of expression (0s or 1s), the quality of the information is less prone to errors or deterioration in comparison to its analogue counterpart.

Distribution of digitised material can take place in two ways. It can take place through physical storage media and also independently of any physical storage media. The first category, also known as off-line or non-linear media, includes CD-ROMs, CD-Is, DVDs, Data Discman, floppy disks, and so on. The second category, also known as on-line services, encompasses all kinds of multimedia services, which are independent of any material support and which are transmitted by fibre-optic ca-

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<sup>35</sup> See A Williams, D Calow and A Lee, Multimedia: contracts, rights and licensing, FT Law and Tax, 1996, at 5-6.

bles, telephone lines and wireless personal communication systems, such as (broadcast) television and integrated digital networks. The Internet is also an example of the latter.<sup>36</sup>

In these cases the information itself becomes independent of any material support or carrier on which it was previously stored or kept. The material support is separated from the data it carries, the data is 'repurposed'<sup>37</sup> in a digitised format and is put on-line. We, in fact, have a dematerialisation of information. In this context, information is important as such, irrespective of its presentation on any hard form copy and it also becomes the object of regulation. This is also very indicative of the fact that fixation and even more permanent fixation of works is a notion that is losing ground very quickly as it stands and is in need of being redefined.

#### **2.1.2.2 Special features of digitisation**

In relation to digitisation the following points are worth stressing at this stage:

1) Digital technology, which is indispensable for the creation of a multimedia product, is inextricably linked with computers. Software tools are used to translate the information from its conventional form into a digital format ("repurpose" it), store it and create the ability to retrieve and manipulate it. The digital language is a uniform language which can be comprehended only by computers. Its transmission, distribution or presentation is, of course, due to the other mediums' compatibility with the particular primary computer that has stored this information in its memory. In this context, multimedia products are in essence computer-based products.<sup>38</sup>

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<sup>36</sup> These forms of transmission are also thought to constitute the 'information superhighway'.

<sup>37</sup> According to M Raysman, *op. cit.* note 17, at 1-5, footnote 3, "within the industry, when a particular work which has existed in a traditional form becomes 'content' in a multimedia application, it is said to be 'repurposed'".

<sup>38</sup> Note that the notion of a computer-based product does not necessarily imply that multimedia are computer programs. Whether or not multimedia products are computer programs is an issue which will be discussed later on in the relevant chapter.

2) Digital technology offers information, which can be accessed world-wide (borderlessly) easily, quickly, accurately and with stability. This is also so regarding reproduction, transmission and distribution of this information. Copies can be produced with great ease in infinite numbers, all possessing the same quality as the original.

3) Digital compression techniques abolish the existing constraints regarding the manipulation and circulation of information: datacompression techniques abolish  
 a) any physical constraints regarding the storage and content of the information, and  
 b) any physical constraints relating to space and time<sup>39, 40</sup> In this way vast amounts of data can be stored on physical or non-physical distribution systems which are available world-wide. Data is no longer territorially based and it is portable.

4) The convergence of all kinds of works and data into the contents of a multimedia product in a digital format that is seamless, renders obsolete any traditional distinctions between literary and audiovisual works. Once digitised, all works form part of a single format (which is the same for all kinds of works) and they are essentially regarded and referred to as information or contents rather than works.

5) Digitisation offers more opportunities than analogue technology offered for on-line communication of information. Thus, dematerialisation of information is a concept which has started gaining particular ground nowadays. The traditional

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<sup>39</sup> G Vercken, *op. cit.* note 3, at 14.

<sup>40</sup> There are different kinds of compression techniques relating to each kind of work. For example, there is the MPEG for audiovisual works, JPEG for fixed images, MUSICAM for phonograms, and so on. These techniques (referred to in a French textbook) multiply the space and the capacity of any network and support by up to 100 times. Thus, almost an infinite amount of information can be stored. In addition to that, compatibility and interoperability between national and international networks facilitates the effective, comprehensive and quick transmission of data. Strowel, at 335.



notions of fixation, and permanent fixation on some kind of stable carrier<sup>41</sup>, seem no longer tenable as necessary prerequisites for the qualification of a work as an intellectual property work.<sup>42</sup>

6) Digitisation and storage of information do not present any structure and specific arrangement in the sense in which the average person would understand the notion of structure and arrangement. The records containing the information, which are found in the computer memory, are standard normalising entries (data put in the right boxes) which do not represent any special selection or arrangement. The result, however, which is produced on screen under the command of a user, may eventually be an original one. This is important to note with regard to the authorship and originality problems that multimedia poses.

### 2.1.3 Combination of various forms of communication

Another distinctive feature of multimedia is the fact that multimedia can hold a vast number of a wide range of communications, such as text, sound and images. The convergence of these kind of expressions requires a digital environment and PC processed technologies. All data is transformed into one format: the digital format.<sup>43</sup> This enables it to be seamlessly integrated in a single medium, in such a way as to construct a single information resource.<sup>44</sup>

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<sup>41</sup> Interesting at this point is the debate about whether a copy in the RAM memory of a computer forms some kind of reproduction if considered as being a storage medium, though a temporary one.

<sup>42</sup> As E Mackaay mentions, "the information has become less dependent on the vehicle through which it is conveyed; it has become 'purer'", *"Economic incentives in markets for information and innovation"* (1990) 13 Harvard J of Law & Public Policy 867, at 868.

<sup>43</sup> This constitutes the reason for a separate remuneration for the authors of the contents of a multimedia product, since digitisation may be considered another kind of reproduction (use) of their work which is not covered by, for example, traditional contracts of publishing or within the notion of the conventional use of the work.

<sup>44</sup> See T Feldman, *op. cit.* note 14, at 9.

#### **2.1.4 Interactivity**

Interactivity is an equally important key feature of multimedia. Although digitisation constitutes the enabling technology for the creation of a multimedia product and for the combination and convergence of different kinds of works (content), this being the main reason for its purchase, it is interactivity (a technique for 'reading' such a product), which makes multimedia different from conventional media and existing intellectual property works. It is the particular feature that makes it appealing and answers the various needs of the users.

Interactivity cannot be seen in isolation. It can only be seen in conjunction with the two previous prerequisites: digitisation and combination of different kinds of works. A work cannot qualify as a multimedia work, unless all three features are met. Digitisation and interactivity are inextricably linked. There is no interactivity without digitisation, although digitisation can exist in a non-interactive form. Computer technology allows the user to interact with the information contained in a multimedia work, by selecting the pathways that will eventually lead him to the bits of information that will serve his particular needs. He is also offered the freedom to organise this information as he wishes by manipulating its arrangement, re-arrangement, selection, combination, inputs or outputs on his screen.

Interactivity, however, is subject to two inherent limitations. First, the user's choice regarding the selection, arrangement and presentation of the information is necessarily limited by the choices already made by the producer and the developer of the product. In other words, the user has to limit his choice to the data available in the multimedia product or service, which, however vast, might not be comprehensive or exhaustive. In all cases the work represents the advance selection made by the initiator of the multimedia product. The user has to make his choices from the pathways and commands available in the system and though they might be great in number, the user is still limited by the capacity and the design of the computer system which runs the particular product. It should be noted though that these limits are not narrow at all and may eventually allow the user to produce a result in which

the original material can hardly be recognised.

Secondly, the constructive and operating computer software of the multimedia product may also limit the degree of interactivity available, even though it is only over a certain degree of interactivity that a product qualifies as a multimedia product.

There are said to exist five standard levels of interactivity:

- 1) *No interactivity* (e.g. in case of a film, where one watches it from the start to the end without the ability to intervene in the sequence of the images).
- 2) *Manual interactivity* (e.g. commands such as those usually found on a video cassette player, for example slow or quick motion, freeze frame, scan, etc.)
- 3) *Limited interactivity* (e.g. pre-programming or downloading instructions through an onboard microprocessor in a video player)
- 4) *True and versatile interactivity* (e.g. interfacing a video player with an external computer, or allowing a user to control graphics, animation and video images)
- 5) *Full interactivity* (e.g. authoring and delivering with a complete hardware and software package)<sup>45</sup>

Multimedia products are thought necessarily to be able to provide the fourth or fifth level of interactivity in order to be considered as such. The user must be provided with the ability to morph (digitally blur and alter images beyond recognition) and sample (sample and blur any kind of works to an unlimited degree). In other words he must be able to initiate newly-created works using existing material. The fourth and fifth level of interactivity are the levels that offer to the user a real dialogue with the contents of the product. Anything less than that would come close, if not totally qualify, for one of the conventional existing categories of intellectual property products, but would not be considered as a multimedia product.

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<sup>45</sup> J Choe, "*Interactive multimedia: a new Technology tests the limits of copyright law*" (1994) 46 Rutgers Law Review 929, at 935. Depending on the degree of interactivity users can also become creators in relation to the work they create by using the materials available in the multimedia product. *Ibid.*, at 976.

In this sense, multimedia products are different from the traditional categories of works.

Yet interactivity, as such, is not new. Only its latest and more developed forms are. Interactivity is undoubtedly the evolution, or else an advanced form, of the first search and retrieval software of the early electronic databases.<sup>46</sup> What, however, is the novel (or better innovative) aspect of it is that it offers to users the possibility of a full direct dialogue, a multifarious interference with the vast amounts of data provided. This it does quickly and efficiently with literally all kinds of expression in a single medium. In view of this, the search and retrieval facilities have to possess two essential characteristics: 1) they have to be complex enough to deal with all the encompassed elements in an efficient and competent way, and 2) they have to look simple, user-friendly, powerful and compelling in order to be marketed successfully and therefore secure the continuity of their existence in the future.

## 2.2 Layers of protection

A multimedia product is a complex product in so far as it incorporates many traditional works in a single medium that can only be manipulated by a computer. This alone indicates that many different elements are involved in the creation of a multimedia product and they cannot all come under the same category of protection. Thus, inevitably, different layers of protection exist.

The three essential<sup>47</sup> layers of protection with regard to a multimedia product are: 1) the protection of the contents of a multimedia product, 2) the

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<sup>46</sup> See T Feldman, *op. cit.* note 14, at 8.

<sup>47</sup> There are non-essential layers of protection as well in case a multimedia product is accompanied by leaflets, manuals or other documentation. These can be the object of a separate protection if they are found to qualify as 'works'. However, if they are reproduced digitally on the screen of the computer they are very likely to come under the same scope of protection as the contents of a multimedia product. This is the case even if they are considered to be operating materials for the multimedia product. See also in this respect Recital 20 of the EU database Directive (96/9/EC) on the legal protection of databases, [1996] OJ L77/20.

protection of the multimedia product itself (as a compilation of the works it includes, but not necessarily protected as such from the point of view of intellectual property), and 3) the protection of its technical base. Although this distinction of parts in a multimedia product is theoretically possible, in practice it is not always clear. For example, there is often an overlap between the multimedia product and its technical basis; especially if we consider that whilst a multimedia product might not be a computer program itself, it cannot be accessed unless a computer is used. With such rapid technical progress in the area of information technology indicating that computers are going to perform more and more tasks, any distinction might be even more difficult to make in the future. Solutions will eventually need to be somewhat different from the ones that are reached now. This is undoubtedly an area which stresses the need for flexibility as far as legal regulation of information technology is concerned. Moreover, any problems regarding the protection of any one of these three layers will inevitably have repercussions on the other two. All three layers have to co-exist in regulative harmony in order for the creation and proper functioning of the product not to be impeded.

The first layer of protection, that of contents of a multimedia product, consists of either contents of pre-existing works or of works commissioned for the creation of a particular product. Since they are independent works that are included in the multimedia compilation, these works are also the object of a separate and distinguishable protection. This protection is afforded to them by means of copyright, patents, trade marks or any other kind of intellectual property rights. This, of course, does not exclude the possibility that the works included are also protected by other areas of law, i.e. by contract, tort, confidentiality, etc.

If composite works, such as films, videos, live performances, sound recordings, etc. are included, the whole bundle of rights (both economic and moral) of the rightholders have to be taken into account. The inclusion of these works in a multimedia product does not affect the existence of any of these rights, nor does it alter in any respect the regime of their protection. These rights accompany the works in all their inclusions in new products. Inevitably the creation of a new multimedia

product will take place in a 'multilegia' environment, i.e. one where the laws and the rights corresponding to the particular elements constituting the parts of the multimedia product have to be respected and taken into account by any person dealing with them, from the producer to the end user.<sup>48</sup> The newly evolved rights of the producer, developer or maker of the multimedia product, or any other person involved, are additional to the original rights. Thus, the chain of rightholders becomes ever longer. The rights existing in the works that form the content of a multimedia product are important in so far as they have to be cleared in order for the emergence of such a product to take place. If these rights are not cleared, or are not cleared properly, or are not cleared in relation to all the works needed for inclusion, then the creation of the multimedia product is impossible, or in the last case, its success will be dubious and conditional on possible litigation. Contents are always considered to be the essential marketing features of multimedia.

The second layer is the protection of the multimedia product itself. Putting together a number of works in a digitised format with potential interactivity does not assimilate existing rights in the works, but creates new rights in the compilation itself, which now serves a separate and distinctive function. The emerging multimedia product or service produced in the course of an independent idea and plan has an autonomous value. This value is in most cases greater than the value each of the works has on its own. Yet this value should not be confused with the value of a genuine literary work by reason of originality or artistic input in the continental sense.<sup>49</sup> The value of a multimedia product is judged more on market and economic terms than on any other terms.

The third layer of protection is that afforded to the technical base of a multimedia product.

1) Firstly, we have the *platform*. The platform is divided into two parts. a) The

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<sup>48</sup> See Th Hoeren, "An assessment of long-term solutions in the context of copyright and electronic delivery services and multimedia products" European Commission, Brussels, Luxembourg, 1995. (Vol.4, Copyright on electronic delivery services and multimedia products series, EUR 16069 EN), at 53.

<sup>49</sup> Though this is not impossible in a multimedia context.

hardware on which the multimedia application runs, e.g. IBM/PC, Macintosh, etc., and b) the operating software which is used for the running of a multimedia application on a particular piece of hardware, e.g. Windows '95, etc. The operating software has to be compatible with the hardware, otherwise no application is possible. In any case, the platform is something clearly distinguishable from a multimedia product. The platform is the compatible environment in which a multimedia work runs in the same way any other application runs.

2) Secondly, we have the operating or making program which technically creates the multimedia application. This program, which is the authoring program of the newly constructed work, is a separate program and it does not accompany the work itself on the market.

3) Thirdly, we have the software tool, known as the '*driver*', '*runtime*' or '*engine*'<sup>50</sup>, which allows the user to access, display and manipulate the information available on the multimedia product created. It is the same tool which technically permits the user to interact with the product, by selecting, arranging or transforming the data available. The driver is a component of the multimedia application itself and is embedded in it in object code form.<sup>51</sup> The driver has to be compatible with the platform in order for the multimedia application to be able to run.

4) Fourthly, we have the *operating materials* for the multimedia product also known as the *command procedure*. Operation materials are considered the commands, pathways, entries, indexation systems, thesaurus, crossroads and other means of tracing, arranging and selecting information in the multimedia product. These are the commands which the operating program obeys, in order to perform its function.

5) Lastly, there are the *distribution media*, which carry the multimedia product. They have either the form of a physical or of a non-physical (on-line) medium.<sup>52</sup> The most popular distribution media in the first category are the CD-ROMs, the floppy

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<sup>50</sup> See R Raysman, P Brown and J Neuburger, *op. cit.* note 17, at 1-5.

<sup>51</sup> The term 'multimedia application' is wider than the term 'multimedia work or product' in the sense that the former also incorporates the technical basis which is needed for its use. However, they are essentially used interchangeably.

<sup>52</sup> In this case we are talking about transmission rather than distribution.

disks, CD-Is, DVDs, etc. On-line distribution (or better transmission) can take place on practically any network which possesses the technology for transmitting vast amounts of data. However, although distribution media incorporate the multimedia work and represent, in the eyes of the consumers, the product itself, they are something separate which is protected on its own merits. The technology of the manufacturing of these media is distinct from the technology of the multimedia work. From the point of view of a multimedia product, they can only be regarded as its carriers, which in practice add nothing to its value apart from the fact that they make it easily available to the public.<sup>53</sup>

From the foregoing it can be seen that it is not easy to distinguish between the different parts of a multimedia product in all situations, and this is going to be even more difficult in the future given the fact that computer programs perform more and more tasks every day. The command procedure is an obvious example of a case

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<sup>53</sup> A considerable problem in relation to the marketing of multimedia products is that they are not technically compatible with all kind of platforms available on the market. This is due to a lack of standardisation. It is said that lack of compatibility seriously impinges on the successful commercialisation of multimedia products and therefore is regarded as a hurdle. Nevertheless, there are also some regulating advantages to be found. 1) Although the sales are kept at a low level in certain areas because users cannot buy all the products available on the market due to the fact that they are not compatible with the hardware they possess, a balance is still kept between information technology industries. Monopolies and the emergence of dominant undertakings are controlled. If this were not the case, one or two giant companies would be likely to sell all their products to the detriment of those who did not possess equal publishing material in the area. Moreover, in view of the competition retrogressions with regard to joint ventures and mergers, regulation is increasingly needed so as to facilitate the co-operation of new media industries and the emergence of new technology products. 2) Rightholders are remunerated separately for each piece of information technology in their works. In this respect they will be more willing to give out licences for the digital exploitation of their works as they will be less fearful of being blocked by a single obsolete technology. Of course, at this stage we also have to take into account that the emergence of too many rights makes clearing of contents difficult in relation to the creation of a multimedia product, though this is compensated for by the fact that rightholders are more willing to license under these circumstances. 3) Standardisation is becoming less significant in so far as on-line transmission becomes a more and more popular form of distribution.



where distinction is not always possible. The command procedure and the data contained in a multimedia product are linked. Any structure, selection or arrangement of the data is subject to the command that is chosen or inserted by the user. The functions it performs may be functions which are computer related, but the commands themselves as they appear on the screen can still be viewed as data. In this sense the command procedure can be regarded as 'contents' and therefore come under the same regime of protection as the one applied to 'contents'.

However, there will be cases where the command procedure is particularly sophisticated, especially where the multimedia product is sophisticated as well. In such a case it is very likely that the formal language of the command procedure in terms of syntax, structure and range of expressions will closely resemble a conventional high-level computer language, if not a computer program itself. Thus, the command procedure might also come within the scope of the EC software Directive and qualify for separate protection.<sup>54</sup>

This will also be the case, but from another point of view this time, when the command procedure itself is embedded in the computer program that designed and constructed the multimedia product. This might happen in cases where the making program has to perform 'classic' or non-sophisticated tasks in relation to the multimedia product. Then, of course, the solution of theoretically including the command procedure in the contents is no longer appropriate. Neither is the solution of considering it as a separate computer program. In this case the one protection afforded to the making program will also apply to the operation of the materials. This will be so as well in the more likely case of the command procedure being part of the driver, when the protection afforded to the driver will be the same as the protection of the command procedure. This protection will obviously be a protection of computer programs.

It is clear from the above that only a case by case decision is possible on this point. As long as operation materials form part of, or constitute by themselves, a computer program there will be no problem, since an autonomous protection for

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<sup>54</sup> [1991] OJ L122/42.

computer programs is available, irrespective of the legal status of the work these programs operate. Yet problems will arise when such a protection is not possible due to the lack of such a qualification<sup>55, 56</sup>.

A possible solution is found in the sole legal instrument which partly regulates such issues: the database Directive.<sup>57</sup> Recital 20 of the database Directive states that "protection under this Directive may also apply to the materials necessary for the operation or consultation of certain databases such as thesaurus and indexation systems". It follows from this that if a database does not qualify for protection under article 1(2) of the Directive, the command procedure is not protected either. The problems which such regulation presents are not discussed here as they fall outside of the scope of this thesis.<sup>58</sup> The problems they present in relation to multimedia products however are relevant. First, in the database Directive the command procedure does not qualify for any kind of protection unless the database itself is protected. The individual merits of the operation materials therefore remain insignificant, in so far, of course, as they do not qualify individually as literary works or computer programs. If this line of thought is followed, the operation materials in a multimedia product, if anything, qualify for the same kind of protection as the one afforded to the compilation. They do not follow the fate of the 'contents'. However, they do follow the fate of the driver, if they form part of it. Although this issue appears to be an important one, not too much practical significance should be given to it, because in most cases the driver itself is bound to contain the command procedure as well. In addition reproduction of the command procedure is less important if the contents of the particular multimedia product cannot also be reproduced at the same time. If the command procedure is to be used for a similar multimedia application as the one from which it was originally taken, if no originality is attached to it,

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<sup>55</sup> See S Chalton, "The amended database Directive proposal: a commentary and synopsis" [1994] 3 EIPR 94, at 96.

<sup>56</sup> I Stamatoudi, "The EU database Directive: reconceptualising copyright and tracing the future of the *sui generis* right" (1997) 50 *Revue Hellénique de Droit International* 436, at 446.

<sup>57</sup> EU Database Directive, *op. cit.* note 47.

<sup>58</sup> For further details see I Stamatoudi, *op. cit.* note 56.

it will not be worthy of protection as such and thus its copying by a competitor can cause little damage to the original owner.

This thesis will focus on the second layer of protection, i.e. on the protection of the multimedia work, irrespective of its contents and its technical base. The problems presented by the contents or the technical base will be taken into account in so far as they have direct repercussions on the multimedia compilation itself and on its independent regime of protection. Relevant issues are, for example, the clearing of rights in the contents, the ability to distinguish between the technical base and the multimedia work in new technological developments and so on.

### **2.3 Project participants in the creation of a multimedia product**

Usually many people are involved in the creation of a multimedia product. This poses a number of problems which will be discussed at a later stage of this thesis. The most important questions are who the author or authors of a multimedia product are and who qualifies as rightholders in relation to which rights.

The persons usually involved in the creation of a multimedia product are:

1) The *authors of the works* which form the 'content' of the multimedia product.<sup>59</sup> These persons are either authors of pre-existing works who have agreed for their works to be included in the multimedia product or commissioned authors who have created works, either independently or in the course of an employment contract, in order for these works to be included in the multimedia compilation. At this point we should note, of course, that other rights, apart from the classical ones an author possesses, exist in many cases in the works that form the contents of a multimedia product. For example, rights in performances or other neighbouring rights are involved, as well as *sui generis* rights. These rights accompany the intellectual property work in any use and if clearing proceedings are to take place, clearance will be required in relation to all these rights.

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<sup>59</sup> For the purposes of this thesis the authors of the contents of a multimedia work will be called 'contributors'.

Of course, as previously mentioned, there might not only be copyright works forming the contents of a multimedia product. Patent, design and trade mark rights may also be involved. The laws relevant to their protection will apply in these cases.

2) The *rightholders of the works of the authors* mentioned in the first category. Rightholders of the works which form the contents of a multimedia product can be any natural or legal person. Usually rightholders are publishers, producers of phonograms and audiovisual works (generally employers), collecting societies, and so on. If rightholders of the rights to a certain work are not the authors themselves but other parties, these other parties do not possess all the rights to a work. They possess the economic rights to the work or a part of it. Any moral rights are non-assignable and they remain with the author until (and in certain jurisdictions even after<sup>60</sup>) the expiry of the copyright in the work. A further layer of rights is the 'secondary copyrights' in the fixation of a work, i.e. the right in the typeface and in the recording. Usually this layer of rights is possessed by the rightholders of the second category, since in order to publish or record a work they also need some if not most of the economic rights in the work at issue.

3) The *producer*<sup>61</sup> of the multimedia product (or a *provider* if it is a multimedia service) can either be a publishing company or an individual (publisher).<sup>62</sup> The producer is the architect of the project. He is the one to select, acquire, bring together and combine the works of all the contributors. He conceives the idea and from him originates the concept for the product. He designs the project and develops the plan of the compilation. When this part of the job is done by a separate person, he or she can be called the *editor*.<sup>63</sup> The producer also produces or supervises its realisation in terms of production and sinks into it the necessary investments. For example, a CD-

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<sup>60</sup> E.g. the moral rights provisions in French copyright law.

<sup>61</sup> The producer of a multimedia program should not be regarded as equivalent to the producer of a film. Both finance the creation of the project, but regarding the rest of the tasks of the producer of a multimedia product, he resembles more the director of a film.

<sup>62</sup> It is usually book publishers or software companies which undertake the production of a multimedia product.

<sup>63</sup> In practice this will often be the case.

ROM is published in the same way as a book, apart from of course requiring larger investments. The producer usually undertakes the distribution of the product either under his trade mark, if it is considered to be commercially effective, or under the trade mark of the maker of the multimedia work.

The producer should also be the rightholder of those rights that are required for the digital use of the authors' works that will be included in the product. These rights are either acquired through the authors or through other rightholders such as collecting societies.<sup>64</sup> In cases of commissioned works the economic rights of the authors will automatically be transferred on to the producer by means of some kind of contract. In the case of employees, that will be done by means of the employment contract, if the particular employee's job is the creation of works that will form part of the contents of a multimedia product.

An issue which is problematic is the moral rights issue. Moral rights are non-assignable. However, in common law jurisdictions, as for example in Britain, they are waivable. Where they have not been waived or where they cannot be waived, they form a separate layer of rights that have to be respected in any use of the copyright work. The producer cannot possess any moral rights in the works he is to use digitally and the same moral rights will apply whether the work is digitally disclosed or not. Therefore the producer has to be very careful not to supersede the limits of normal use of the product and the limits of the use he has been assigned. The users' conduct forms a separate issue.

The producer has an important creative and production role.<sup>65</sup> This notion of creation does not have anything to do with producing highly original material. It is creative in so far as he brings various works together after having selected them and after having put them in a particular structure and arrangement. This is more obvious when one notices that the more commercialised and commodified the works are, the less original and the more functional they are. His important production role lies not

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<sup>64</sup> It is a highly contested issue whether the conventional contracts between collecting societies and authors include also digital rights as well.

<sup>65</sup> M Turner, *op. cit.* note 5, at 107.

only in the development of the project as such but also in the fact that he adds economic value to the compilation by turning it into a multimedia product.

"The product has distribution and exploitation rights which are worth considerably more than that of the individual elements going to make up the program".<sup>66</sup>

The combining elements of a multimedia product are included in a way which enables them to be used in more than one traditional format, e.g. alphabetically. Usually many pathways (or crossroads) are designed, which permit the user to browse the contents in several different ways according to his own needs. The user is given the opportunity to include or exclude information on his screen at any time, as he wishes. This is also the reason why the whole is greater than the sum of its parts.<sup>67</sup>

4) The *maker* or *developer* of a multimedia product. The developer of a multimedia product has to be distinguished from the producer in so far as he is not involved in the planning and structuring of the product as a work. The maker is responsible only for the physical development and technical organisation of the product. He designs the operating computer program (driver), the screen displays (the functionality displayed on the screen elements and the positioning of the individual screen elements)<sup>68</sup> and he digitises and stores the information. He may also design the look of the multimedia work as a product, i.e. its form and packaging, etc. The multimedia product is usually produced under the trade mark of the developer if it is decided that his trade mark is capable of contributing to its market success. However, apart from the very technical issues for which the maker is responsible, in most cases the maker and the editor share responsibility for the creative aspects of the product. Depending on their respective roles, they can both be considered co-authors.<sup>69</sup>

5) Lastly, there are the *users*. The users do not have any creative role in the

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<sup>66</sup> *Ibidem*.

<sup>67</sup> *Ibidem*. See also A Strowel and J P Triaille, *op. cit.* note 24, at 334-335; and G Koumantos, *op. cit.* note 26, at 243.

<sup>68</sup> M Turner, *op. cit.* note 5, at 107.

<sup>69</sup> R Raysman, P Brown and J Neuburger, *op. cit.* note 17, at 1-10 - 1-11.

multimedia work. The only control they have over the product is the fact that because of its interactivity they can manipulate the display of information on the screen of their computer. They can change the outcome of their searches as they wish by selecting or re-arranging the information that is already available in the product but only through the pathways that are available<sup>70 71</sup>.

Although users of multimedia products have gone further than being passive spectators such as film and TV viewers and although they are given rich forms of interactivity, as for example hypermedia (or hypertext), they are still not deemed to be creators. They are only turned from spectators into users and from passive into active users by the multimedia products which enable them to edit the information provided. Whether they have copyright in the edition of their work is a matter judged on its own merits. The creation of a new visual, artistic or literary work that is original and attracts copyright protection in its own right is probably an extreme and rare case, but it may take place if there is enough creativity involved and if the work is independently created and fixed in some kind of permanent form from which it can be retrieved.

The issue of who, from the above project participants, qualifies as the author or the co-author of a multimedia product, will be considered separately in a relevant chapter.

## **2.4 The differences between multimedia products and existing copyright works**

Multimedia works are said to have some unique and distinctive features in relation to conventional copyright works. These features are not new. They are in most cases the combination and evolution of pre-existing, but less developed

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<sup>70</sup> G Koumantos, *op. cit.* note 26, at 243.

<sup>71</sup> There can be more project participants such as, for example, the manufacturers of the platform on which multimedia applications run, the manufacturers of the material supports and modes of transmission (CD-ROMs, televisions, videorecorders, video games, etc.), the operators of the networks, the access providers, the designers and makers of instruction leaflets included and so on.

characteristics, as was also demonstrated with regard to interactivity. However, their evolution in certain cases has become so significant that it is no longer a change in quantity but one in quality. In this respect some multimedia characteristics can be regarded as new.

Whether or not the particularity and individuality of the multimedia products' characteristics merit a different regime of protection adjusted to their needs is highly disputed and is under investigation. Even if the existing intellectual property laws have to be adjusted to the reality of the new technologies how far this adjustment has to go, what alterations have to take place and how far these alterations are capable of transforming the original established notion of intellectual property rights, remains uncertain.

If particularities are to be found in relation to multimedia products these can be found with regard to the following elements.

#### **2.4.1 Combination of different forms of communication**

Various works which are traditionally classified in different categories are combined in a single medium. Such works existed for centuries in the form of a combination of text and images, for example, an illustrated book or newspaper. Audiovisual works are also a good example of combinations of sound and images.<sup>72</sup> The term 'multimedia' has recently become popular as a description of computer-based products or applications.<sup>73</sup> However, some particular features have developed which make it unique.

a) All the works included, irrespective of their nature are integrated in a single format: a digitised one.

b) There are no physical limits as to the quantity of the works included,

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<sup>72</sup> A Strowel and J P Triaille, *op. cit.* note 24, at 334.

<sup>73</sup> R Raysman, P Brown and J Neuburger, *op. cit.* note 17, at 1-2; and B Isaac, "Intellectual property and multimedia: problems of definition and enforcement" [1995] 12 Canadian Intellectual Property Review 47, at 51. B Isaac also points out that the interactive nature of a multimedia product is a result of the underlying computer program and that is itself covered by copyright.



because new technologies, such as digital compression techniques can store almost infinite amounts of data. As Koumantos argues, the quantity of the various elements involved in a multimedia product is such that any quantitative modification becomes necessarily a qualitative one as well.<sup>74</sup> Here, quantity and quality are closely interrelated. Thus, any physical constraints on the storage, the kind of work, the space or time have been abolished and as a result information gains value. It becomes portable, quick and easy to access, and capable of being carried by both off-line and on-line media.

c) In relation to on-line transmission of data, no territorial limits exist. Information can be picked up in any place in the world at any time as long as one possesses the necessary technical equipment.

d) The digitised format of the work allows the work to be copied quickly, easily and cheaply. On top of that an infinite number of copies can be made without any loss of quality.

#### **2.4.2 A single material support**

Although in the past combinations of different kinds of works existed, such as text and images, these combinations were based on the combination of the different supports that carried the works, i.e. recordings, pictures, etc. In the case of multimedia products we are no longer tied to any kind of 'emballage' which regroups the different material expressions of the various works, under one name like, for example, a film. Multimedia is a single product which incorporates different kinds of works which have been integrated in this single medium in a single format. The «Livre blanc du groupe audiovisuel et multimédia de l'édition» states that:

"on ne devrait pas appeler multimédia un produit regroupant sous un même emballage, mais sur des supports différents, des éléments textuels, sonors ou

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<sup>74</sup> G Koumantos, *op. cit.* note 26, at 243. See also A Strowel and J P Triaille, "le tout n'est pas réductible à la somme des parties", *op. cit.* note 24, at 335.

visuels".<sup>75</sup>

The practical significance of such a differentiation in storing information with regard to copyright will be considered at a later stage.

### **2.4.3 Originality**

The value of multimedia products does not necessarily lie in the originality of the works included. If any originality is to be found, it usually consists of the appearance of the product and its userfriendliness rather than the works it incorporates. In these cases multimedia products are valuable because they are comprehensive in terms of information and because their contents are primarily functional and utilitarian in nature.<sup>76</sup> In other cases though multimedia products can be very creative works and in those cases that creativity is found in the combination and integration of the various components.

### **2.4.4 Computer-based product or service**

A multimedia work's function is computer-based. Although a multimedia product is a work, it cannot as such perform any task unless it is computer aided. That renders it dependent on a computer program but does not necessarily render it a computer program itself.

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<sup>75</sup> «We should not call a product 'multimedia' which combines as part of the same package, but on different material supports, textual, sound and visual elements». Groupe Audiovisuel et Multimédia de l'Edition, Questions juridiques relatives aux oeuvres multimédia, (Livre Blanc), Paris, 1994, at 65.

<sup>76</sup> A Lucas, "*Droit d'auteur et multimédia*", in Propriétés intellectuelles, mélanges en l'honneur de André Françon, Dalloz, 1995, at 325, at 326.

## 2.4.5 Combination of information technology and communications technology

The main technologies that a multimedia application combines are digital video, electronics, informatics and digital communications<sup>77</sup>.

## 2.4.6 Fixation

One of the most important aspects of a multimedia product, and perhaps the one that determines its market success is its content.<sup>78</sup> Although content is found at the heart of a multimedia product or service, it is alleged it is not fixed, at least according to what fixation is considered to mean traditionally, and in relation to conventional intellectual property works. The basis on which lack of fixation in relation to multimedia products is advocated is twofold. Principally, it is based on the fact that information which can be retrieved interactively can circulate and will probably circulate even more in the future as on-line services (lack of fixation in the broad sense). The information will be accessed irrespective of any material carrier. It becomes a valuable commodity on its own without needing to be fixed on some kind of medium. Here the notion of *dematerialisation* of information is relevant again. In cases where some kind of fixation exists, there is a factual assimilation between the carrier and the data it carries.

Claims which are based on the fact that storing information in the RAM memory of the computer is a form of fixation, though not permanent,<sup>79</sup> add little

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<sup>77</sup> By digital communications we mean digital telecommunications and audiovisual.

<sup>78</sup> After standardisation, information will become even more important. R Raysman, P Brown and J Neuburger, *op. cit.* note 17, at 1-5, footnote 2.

<sup>79</sup> «The RAM memory of a computer constitutes a difficult problem. A program that exists only in the RAM memory of the computer exists only in the form of electrical currency and when the power supply is interrupted the program disappears. At first sight this does not involve the required degree of permanency, but the conclusion may be different if such a program lives in the RAM or a similar memory of a computer network and if it is quite unreasonable to expect the network to be shut down

value to the arguments against dematerialisation. It is the information which counts and its placing in the RAM memory is rather less significant. Interesting in this respect is the draft EU Directive on the harmonisation of certain aspects of copyright and related rights in the information society<sup>80</sup>. This more or less solves the problem regarding the status of temporary reproduction. According to article 2 of the Directive the reproduction right also covers temporary copies (e.g. RAM). Article 5 provides for an automatic exemption for temporary acts of reproduction which are "integral to a technological process made for the sole purpose of enabling a use of a work...that is authorised or otherwise permitted under any law and have no separate economic significance".<sup>81</sup>

The second aspect that is contradictory to the notion of fixation is interactivity (lack of fixation narrowly defined). Interactivity offers the facility to users to revise, re-order and re-organise their data according to their specific needs. They can skip information, reform it and use different pathways to retrieve the data they need. This aspect can be found in both multimedia products and services, whilst the first one is only inherent in the provision of services. Although information is contained on a material support, there is no specific and stable order to which this data are subject. Rather we find information in a 'loose' form as elements and a box

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in the foreseeable future. The example of software made available via the various bulletin boards of the Internet comes to mind». P Torremans and J Holyoak, Holyoak and Torremans intellectual property law, 2nd ed., Butterworths, 1998, at 499. *Triad Systems Corporation v Southeastern Express Co* US District Court for the Northern District of California 31 USPQ 2D 1239 and *Mai Systems Corporation v Peak Computer Inc*, *Vincent Chiechi and Eric Francis* US Court of Appeals for the 9th Circuit F 2d 511, 26 USPQ 2D 1458.

<sup>80</sup> See Lexis, "Draft EC Directive strongly protects online content; ISPS placed at risk" (1997) 14 International Trade Reporter 1954; and "Draft EU legislation to update copyright law ready by year's end" (1997) 14 ITR 1910. The latest version of the Draft Directive can be found at [1999] OJ C180/6.

<sup>81</sup> In general reservations have been expressed with regard to the exceptions introduced by the Directive in so far as they impede real harmonisation in the area of copyright and they allow wide margins of discretion to Member States which are bound to exercise or keep implementing their own differing tradition in the field. *Ibidem*.

of tools, which can be combined when necessary. Up to now fixation has been synonymous with a permanent and stable form; not just the tools and elements needed to be fixed, but also the work itself. New technologies have rendered this notion obsolete. Fixation has become broader in a sense. No order is required, no stability, no permanence. Perhaps, the fact that data can be carried in whatever form suffices. If that were not the case, interactivity would not have been possible. Users are the only persons responsible for any potential structure. Of course as we made clear earlier, users do not create. They select and arrange from what is already available. Their true creative role can be very limited. Often no originality or even effort and labour are invested.

#### **2.4.7 Ease of manipulation and copying**

Up to now, apart from intellectual property laws, there have also been physical barriers which prevented large scale copying of copyright works. As technology has advanced, the problems of volume and time, which constituted the essential barriers against copying, have disappeared. More than ever before digital technology provides users with the ability to manipulate and transform, sometimes to an unrecognisable degree,<sup>82</sup> the data available in the multimedia product (e.g. sampling, morphing, etc.). It also allows users to make as many copies as desired or possible, easily, quickly and without any loss of quality. This undoubtedly poses new risks of unauthorised exploitation especially if it is coupled with the fact that copying equipment is now readily privately available (e.g. PCs, etc.). Moreover, it poses risks of infringement of moral rights (as well as economic rights if the copies are to be put on the market and take the place of originals) without any opportunity of tracking down trespassers. More than ever before a more effective and consistent regulation is called for. Copying, which has been the plunder of the last decades, has taken on new dimensions due to the new technological ease with which it can take place. Techno-

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<sup>82</sup> i.e. morphing and sampling. Later we are going to consider the degree of manipulation offered and allowed to users and its possible repercussions on the moral rights of the authors involved.

logical devices to safeguard rights are becoming increasingly necessary. The new draft Directive outlaws the manufacture of any devices that facilitate circumvention of copyright protection technologies. It is a battle which will definitely not be played solely in the field of law. The view that technological devices are to prevent technology inefficiencies in the area is gaining ground. Law can only play a post-factum regulative role. Classical theories of educative and pre-regulative function of the law have been left behind by the new reality.

### CHAPTER III

#### TRADITIONAL LITERARY WORKS

Originally copyright was meant as a regime of protection for literary works. Literary works, seen as a generic term, really refers to most oral and written works of the mind, which are expressed by means of language and which can be literary, scientific or of any other nature.<sup>83</sup> To take two examples only, Belgium refers to literary works as 'écrits de tout genre' (writing of any kind), and as 'manifestations orales de la pensée'<sup>84</sup> (oral expressions of the mind), whilst the Swiss Act refers to them as 'creations de l'esprit'<sup>85</sup> (creations of the mind).<sup>86</sup> The Copyright Designs and Patents Act 1988 refers to literary works as simply «any work [...] which is written, spoken or sung».<sup>87</sup>

What we usually understand as literary works are books, articles, pamphlets, lectures, sermons and other works of the same nature.

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<sup>83</sup> See the Berne Convention, art.2(1).

<sup>84</sup> Art.8 of Law on Copyright and Neighbouring Rights of June 30, 1994, as amended by the Law of April 3, 1995.

<sup>85</sup> Art.2.2 of the Swiss Copyright Act of 9 October 1992.

<sup>86</sup> Most jurisdictions refer to literary works as works of the mind. See also art.101 of the American Copyright Act, 2.1 of the German Act, art.L112-1, L112-2 of the French Act and art.2(1) of the Greek Copyright Act. See also A Strowel and J P Triaille, *op. cit.* note 24, at 354; and A and H J Lucas, Traité de la propriété littéraire et artistique, Litec, 1994, at 108.

<sup>87</sup> Section 3(1) CDPA 1988.

### 3.1 Literary works as works of language

#### 3.1.1 The concept of 'language' and 'words'

The key feature of literary works is the fact that they are conceived in language. The final format could be written, recorded or oral. In other words, genuine literary works are, in their original format, either spoken or written, and are created in order to be listened to or read. If their primary aim were not the one just mentioned, but for visual or musical performance, or display, they would strictly speaking not be literary works, though they would still come within the category of literary works in the broad sense.<sup>88</sup> This includes dramatic, musical, pictorial or artistic works.<sup>89</sup>

To narrow down the category of literary works even further, we could argue that oral works, such as lectures, addresses or sermons, that indisputably attract copyright in most jurisdictions, have to be fixed. This is indeed the case in certain jurisdictions, such as the British one, where copyright protection is subject to some kind of permanent fixation of the work.<sup>90</sup> A work cannot qualify for copyright protection in these jurisdictions, unless it is written, recorded, or otherwise fixed in some form. The right to make any copyright protection dependent on a fixation requirement is given by the Berne Convention in its article 2(2), after pressure was put on the drafters of the Convention by the delegations of common-law countries, particularly the British delegation. In section 49(9) of the UK's Copyright Act 1956 it was stated that the role of fixation is to create certainty in the subject matter of copyright, or more precisely in the scope of the monopoly, copyright being a monopoly in nature, in order to avoid injustice for the rest of the world. This means that simply the expression of language is sufficient to create a literary work. In

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<sup>88</sup> See for example of 'literary and artistic works' as it is used in article 2(1) of the Berne Convention.

<sup>89</sup> The CDPA 1988 reaches a radically different conclusion when it stipulates in section 3(1) that any dramatic or musical work is by definition excluded from the category of literary works.

<sup>90</sup> Section 3(2) CDPA 1988.



addition, materialisation provides the means of both proving its existence and communicating the work to third parties. The materialisation of the work in hard copy (irrespective of being off-line or on-line), quite apart from an economic right, is also considered to be a moral right in many continental law systems, known as the right of divulgation of the work. This has a broader meaning and scope than the concept of fixation. Fixation of a work does not always require publication or communication of the work to the public, even though no communication to the public can take place unless fixation has preceded.

Thus, literary works in the narrow sense are essentially text. Text is inextricably linked with language and has the ability to be communicated and understood by third parties (it should be noted that whether or not the author had the intention of communication is of no relevance). In judging whether a text is copyrightable or not it is essential that the text is expressed in a language which is living or has been alive in the past (e.g. Latin) and which is consequently understood. However, that language does not necessarily have to make sense to a majority of people.

At this point we should distinguish between the concepts of language and words. Language does not necessarily require a text composed of words. A text can also be composed of figures or signs since they can be expressed in an oral or written way with the use of words, the classical means of communication for which the human tongue is used.<sup>91</sup> Thus, the concept of words is narrower compared to that of language. Words are a vehicle for language not the language itself. In common-law systems copyright protection is afforded to works which are presented in figures (e.g. mathematical tables<sup>92</sup>, football fixtures, hieroglyphics, Chinese characters<sup>93</sup>, etc.). In all copyright systems copyright is also granted

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<sup>91</sup> In this sense sign language for deaf people, for example, is not protected as a literary work as such, though it is called language, since no use of the tongue is made.

<sup>92</sup> *Bailey v Taylor* (1824) 3LJOS 66; *Express Newspapers plc v. Liverpool Daily Post and Echo plc* [1985] 3 All ER 680, [1985] FSR 306.

<sup>93</sup> Since it is signs and symbols that are used in writing.

irrespective of the national origin of the language<sup>94</sup>, e.g. a tale written in a rare Indian dialect. The notion of language does not necessarily mean 'our' language or a language which is well-known and understood by a large number of people. That would unnecessarily restrict any notion of language, as it would leave outside its scope anything that would not fall within the definition of a 'word'. Language can be any language with which you can communicate messages to people, no matter how small this group of people. The only acceptable limitation is that it has to be a living language (or one that has been alive in the past) through which people can conceive and send messages.

### 3.1.2 Natural or artificial language?

A question arises whether the notion of a 'living' language implies only a natural language or whether an artificial language would qualify as well. In the early 90's, when the market of new technology products was flourishing and the need for legal regulation was consequently growing and becoming more pressing, the category of literary works was stretched substantially to include new technology products. Computer programs were the first type of such products to be included within the ambit of literary works.<sup>95</sup> Examinations carried out at that stage, as to whether computer programs were in fact coming even close to the definition of a literary work, were rather loose. Dominating the debate was the need for a legal environment that had already been mapped out. Detailed rules that were internationally accepted and applied were required and the issue of whether a computer program could really be seen as a literary work was glossed over. Computer programs were thus brought within the definition of works of language. Yet, it was only the presentation of the information they carried which was in

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<sup>94</sup> H Laddie, P Prescott and M Vitoria, The modern law of copyright and designs, 2nd ed., Butterworths, 1995, at 30.

<sup>95</sup> Council Directive (91/250/EEC) on the legal protection of computer programs, [1991] OJ L122/42.

conventional language, and which could therefore be communicated to people. The means for creating and constructing a computer program constituted an artificial language, a language conceived and used only by technicians and other experts in the area of software. The inclusion of computer programs within the ambit of protection of literary works extended the definition of literary works to works in both natural and artificial language.

This extension of the notion of language to include artificial language in relation to literary works qualifying for copyright protection did not come on its own. A number of practical consequences followed from it. Primarily the notion of communication has taken on different meanings compared to its traditional approach. Communication is no longer seen as two or more people understanding each other through the transmission or exchange of information, thoughts, feelings or emotions, but also the capacity to understand the functioning of a machine at an intermediate stage, before this machine transforms the information it carries into text, which can in turn be understood by someone (as is the case of literary works in their original sense). Artificial language acknowledges the need for the intervention of machines in the communication between people. The communication between people and machines, or between machines alone is also held to be an acceptable form of communication, forming a work, and qualifying for copyright protection under the world's copyright acts.<sup>96</sup>

Artificial language was meant to facilitate communication between experts rather than between ordinary people. The latter would only enter at the stage where computer language was transformed into normal language, text or images, in their traditional format.

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<sup>96</sup> It is generally understood that high level computer languages such as Cobol, Pascal etc. will be considered to be artificial languages. The same cannot be said about binary code, as it cannot be understood by the ordinary person.

## 3.2 Depurification of copyright

### 3.2.1 Computer programs

The inclusion of computer programs within the ambit of literary works was, as explained earlier, more a policy decision than a decision on the grounds that literary works and software were works which were closely related. The convenience and ease of squeezing a work into an already well-established and internationally acknowledged regime of protection, such as the copyright regime, was tempting and presented considerable advantages. The drafting of any new *sui generis* legislation, which would have to undergo much discussion and involve many compromises was considered not to be an option. Conflicting interests would no doubt have resulted in a much watered down regime of protection, whereas copyright offered a relatively strong existing regime, which was internationally accepted and which could be adopted for computer programs on a 'take it or leave it' basis. On top of that no valuable time would be lost at the expense of the protection of products already widely used on the market. The need for instant protection of software products constituted an important factor that had to be taken into account.

Fitting a new product within the scope of an existing legal regime means applying the rules of this regime *in toto* to the product newly included. Yet, traditional conduct with regard to certain issues was difficult to continue. To take but one example, investigation in cases of copying in relation to computer programs could no longer take place in the traditional way by comparing the works at issue (the original and the copied one). Comparison of software demanded other kinds of equipment, both practical and intellectual. The literature on copyright moved from the notion of literary copying to the notion of comparing the 'look and feel' of computer programs.

The inclusion of software within the ambit of copyright was thought to render obsolete the boundaries between patent law and copyright, and between

machine and work. Software was found to possess characteristics of both patent and copyright law, which at that time would normally have excluded it from protection under the copyright rules, these being orientated towards protecting only cultural creations, such as books, paintings, etc. Software was both a work and an item linked to a machine as far as it constituted a written text of commands and a part of a machine (PC, hardware) to which these commands had to be linked in order to become functional. Computer programs were held to be works of function defined as «works that use information to describe or implement a process, procedure or algorithm».<sup>97</sup> Copyright has traditionally rejected functional, utilitarian and technological works which were not at the same time functioning as supports for some form of expression of the information they carried.<sup>98</sup> If some creative, literal or artistic features were not there, apart from the prominent technical features of the work, there was no way that such a work could be justified as being capable of being protected under copyright. Any inclusion of software into copyright would jeopardise and render useless in the future any distinctions between patent law and copyright. That was also combined with the fact that a copyright work was meant to be communicated to other people and not to be used. If a work could only be used and did not convey messages, feelings or emotions, then it was a work coming rather within the ambit of protection of patents. Computer programs, though a borderline case, passed these hurdles and qualified for copyright protection.<sup>99</sup>

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<sup>97</sup> OTA Report, Intellectual property rights in the age of electronics and information, US Congress, Office of Technology Assessment, 1986, at 78.

<sup>98</sup> M Marinos, *op. cit.* note 22, at 129.

<sup>99</sup> In common law traditions the distinction between industrial property and copyright is not as far away as it is in the continental law traditions because it places the emphasis of copyright law on the producer or exploiter of the work rather than the author. This market orientated philosophy is closer to the philosophy of patent law, which although it places the emphasis on the work itself, is still a market orientated philosophy. The gap between the producer and the work is one step closer to the gap between the author and the work, as continental traditions would put it. Interesting in this respect is the fact that both copyright and industrial property regulate equivalent aspects of human creativity. They both constitute parts of the individual's personality and are both derived from the

As will be seen later,<sup>100</sup> adjustments had to be made. On the one hand national legislation did not sit well with the new reality and had to be amended. On the other hand, the legislation of certain states, such as for example the Member States of the European Union, had to be streamlined, in order for a more efficient exploitation of computer programs to be achieved on the Single Market.

### 3.2.2 Compilations

Computer programs are only one example of depurification of the notion of copyright and its original aims.<sup>101</sup> Compilations are the other earlier example of hybrid literary works that were included within the scope of copyright.

A genuine literary work was a work authored by one or more persons from the conception of the idea until its final expression. The number of persons authoring such a work was in most cases limited. The authored work as a whole constituted a new piece of literary expression. In contrast to inventions and patents, the work did not have to satisfy a novelty requirement. It was the expression that had to be new, not the idea. The idea could have been used in the past, since the idea as such was not protected by copyright. Anything else would unduly impinge on the freedom of intellectual creativity. The expression of the work at issue had to be original. Depending on the jurisdiction the level of originality could vary from an expression which was not merely copied to an expression which had the personal intellectual imprint of the author. If no originality was to be found in the expression and content of the work, the work would not qualify for copyright protection. Originality of content is the principal factor for copyright protection.

This notion of originality of content of the work cannot realistically be present in any kind of compilation. Nevertheless compilations as such come within

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same philosophical foundations and beliefs which lead to the French Revolution. See M Marinos, *op. cit.* note 22, at 134 ; and G Koumantos, Pnevmatiki idioktissia, 6th ed., Ant. N. Sakkoula, 1995. at 14 .

<sup>100</sup> See *infra* the chapter on computer programs.

<sup>101</sup> I.e. to protect genuine literary works and the personal bond they have with their authors.

the ambit of copyright protection for literary works, since they are referred to as collections in the Berne Convention<sup>102</sup>, but in reality they do not possess originality in the same sense as genuine literary works<sup>103</sup>. Originality in their case is tested on the grounds of the selection and arrangement of the material used to compile the final work. The persons compiling such works do not author them. They select and arrange the material already authored by third parties. Even so the same regime of protection as the one for literary works is granted to them.

Though compilations are a kind of derivative work, since they usually compile pre-existing original material, we have to distinguish them from the derivative works mentioned under article 2(3) of the Berne Convention. The latter, which are translations, adaptations and other alterations of a literary work, still possess the same kind of originality as the works from which they have been derived. Whether copyright of the original work is infringed or not does not play any role for the purposes of their independent qualification as literary works.<sup>104</sup> Thus, their inclusion within the scope of copyright does not really impinge on the

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<sup>102</sup> Berne 2(5): «Collections of literary works such as encyclopaedias and anthologies which, by reason of the selection and arrangement of their contents, constitute intellectual creations shall be protected as such, without prejudice to the copyright in each of the works forming part of such collections».

<sup>103</sup> «Compilations are not within the normal meaning of literary work» See Lord Gorell's comments in the Parliamentary debates, fifth series, House of Lords (1911) vol.x, HMSO, at 211. See also Monotti, at 159 «they are a special category of works which recognise the importance of selection, compilation and arrangement skills, even though they may have only slight literary content». Not even all compilations are thought to come under the scope of this provision (both in the UK and in Australian copyright law). Only compilations which can be described as 'written' (in the UK) or as 'expressed in words, figures or symbols' (in Australia, Copyright Amendment Act 1984, s.3(f) which amended s.10 Copyright Act 1968). A Monotti, *"The extent of copyright protection for compilations of artistic works"* [1993] 5 EIPR 156, at 161. According to Monotti, compilations of merely or essentially artistic works seem to be excluded according to the '*expressio unius est exclusio alterius*' (an express reference to one matter indicates that other matters are excluded).

<sup>104</sup> The Berne Convention, of course, provides in art.2(5) that the protection of these derivative works shall be «...without prejudice to the copyright in each of the works forming part of such collections».

original notion of a literary work, although one always has to take into consideration the different levels of protection and rights involved.

Taking into account the fact that compilations are to a greater extent hybrid works rather than adaptations and adding to that the subsequent inclusion of computer programs in the category of literary works, it can be said that they have, in a sense, brought about the relaxation of the rules on copyright. The genuine literary work, which was a work of natural language, authored by a limited number of people responsible for its original content, now seems almost a distant and old-fashioned paradigm. The new reality has managed to set its own rules.

### **3.2.3 Databases**

The inclusion of databases within the scope of copyright forms another example of its depurification.<sup>105</sup> Databases are hybrid works in the same sense as compilations and computer programs are. Often elements of a compilation and a computer program are both involved in a database. Databases qualify for copyright protection subject to an originality test relating to the selection and/or arrangement of their materials. In the same sense as compilations, no new expression or idea occurs in a database. There is no newly created/authored work which carries weight in the assessment of the originality of the database. In fact it is data which is compiled together, information rather than works in the traditional sense of the word. In these circumstances the personal imprint of the author is extremely restricted, if there is any individual or personal imprint found in the first place.

This is particularly so if it is also taken into account that databases are rarely the work of an individual author. They are commissioned by companies and are built by teams of people, since the tasks involved in the construction of a database are far more complicated and numerous than the ones involved in a

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<sup>105</sup> Databases were either included in many national laws as protected material under copyright, or their introduction in all EU Member States took place by the enactment of the EU Directive on the legal protection of databases, *op. cit.* note 47.



conventional compilation.<sup>106</sup> The process of making a database is very different from the process of authoring a traditional literary work. Many tasks require combined efforts, technical equipment and substantial investments. It is not creativity which is involved or which plays the only essential or decisive role. Any personal creative contribution is always restricted by the project line as this is usually designed by the company commissioning it and by the utilitarian, functional and comprehensive nature of the work. In this context any traditional personal bonds between the author and his work look rather weak or even absurd.

In addition electronic databases contain a computer program in order to render access to them and the retrieval of their contents possible. Even in the case where a computer program is distinguished from the actual database (the compilation of the data), there are still parts closely related to it. These parts are the operating materials, indexation systems and thesaurus, which allow the user to browse through a database, and which are highly functional in nature. These are therefore incapable of being protected by copyright on their own merits. However, they form the object of copyright protection if seen in conjunction with a qualifying database. These systems accompanying the database strongly indicate that databases are functional and utilitarian works whose protection does not aim at the protection of a literary or artistic outcome (as would be the case with traditional literary works or other copyright works) but at the protection of the process of their creation, the investment put into that production and in part at least the idea.

Databases have stretched the scope of copyright in order to include the protection of technology as well in a process that had already been started by the inclusion of computer products within its ambit of protection. However, the protection of technology was left to patent law. Databases along with computer programs contributed substantially to the metamorphosis of literary and artistic

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<sup>106</sup> It is submitted that we are heading towards an 'impersonalisation' of copyright works. The old idea of every work having an individual author has been discarded. New technology products are the outcome of joint endeavours and an individual author can no longer be determined. On top of that come the computer-generated works where there is no author in the traditional sense at all.

copyright into an 'industrial copyright', or as the continental lawyers, who have a clear distinction between copyright or intellectual property on the one hand and industrial property on the other, would put it, into 'intellectual technology'.<sup>107</sup> These terms clearly point to an area of confusion between the boundaries of idea and expression, technology and art, machine and work. Modern copyright seems to come ever closer to the former. However, by protecting the idea more and more, we in fact afford protection to the information (data) rather than the work. This might eventually have repercussions on competition law and on keeping the right balance between the commercial triangle of innovation/creation, production and consumption. Too many restrictions at innovation level might lead to the blocking of further development in the area and on the abolition of real competition in the field of information technology and communications.

### 3.2.4 An overall perspective

Taking into account the fact that compilations are to a greater extent hybrid works than adaptations and adding to that the subsequent inclusion of computer programs and databases to the category of literary works,<sup>108</sup> it can be said that they have, in a sense, brought about the relaxation of the rules on copyright.<sup>109</sup> The genuine literary work, which was a work of natural language, authored by a limited number of people responsible for its original content, now seems almost a distant and old-fashioned paradigm. Copyright sets out to extend its protection to new technology products as well, even if their nature is incompatible with the nature of

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<sup>107</sup> See M Marinos, Logismiko (software). Nomiki prostassia kai simvassis, t.II, Kritiki, 1992. at 126.

<sup>108</sup> It is not certain that databases will be protected as literary works in all EU Member States. Even if that is not the case, they will still play an essential role in the reconceptualisation of copyright.

<sup>109</sup> The fact that copyright should be granted to works irrespective of their practical and functional utilities, and the fact that functional and utilitarian works should not be granted any copyright protection, has in the past created problems as the inclusion of architectural works within the ambit of copyright protection. See M Marinos, *op. cit.* note 22, at 128.

traditional works and traditional processes of creating a work with a literal and artistic content and putting it on the market.

### **3.2.5 Originality at common law as compared to its ‘droit d’auteur’ counterpart**

Common-law jurisdictions have also played a significant role in the widening of the original notion of genuine literary works. Literary works as such are protected by any copyright regime in the world. However, not all of them are protected. Only original literary works are protected. But originality is a concept that is not defined in a uniform way. It can either widen or narrow the scope of protection for literary works according to the definition given to it.

So, although there is a unified regime of protection in relation to literary works, this regime unravels when it comes to the definition of originality. It basically splits up into two systems of protection and two concepts of originality. The continental system (otherwise known as the ‘droit d’auteur’ system) and the common-law or Anglo-Saxon system (otherwise known as the ‘copyright system’).<sup>110</sup>

The question which seems to follow logically at this stage is that concerning the Berne Convention’s position on this point. The drafters of the Berne Convention did not specify how original a work should be in order to qualify for copyright protection. The word original is not even referred to in the text of the Berne Convention. However, it is thought to be inherent in the very notion of a literary work.<sup>111</sup> According to the Brussels Conference in 1948, the notion of ‘intellectual creation’ was found to be implicit in the notion of a literary and artistic work. According to Ricketson, if a balance had to be struck between the two families of copyright law, the balance would turn towards the continental

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<sup>110</sup> Throughout this paper the term «copyright» will be used as a general term, without having attached to it the special common-law meaning.

<sup>111</sup> See also the same reasoning regarding the French and Belgian Copyright Acts.

approach<sup>112</sup>.<sup>113</sup>

The view that a work has to be the expression of a person's intellectual creation has taken over in almost all continental jurisdictions with only slight variations in the practical criteria for assessing the actual existence of originality.

The issue becomes even more problematic (at first sight) if one browses through some of the continental copyright laws. For example, no express mention of originality or of the degree of originality is provided in the French Copyright Act. Here this is derived from the very notion of a literary work and indirectly (by adopting a teleological/purposive approach) from the wording of various parts of the French Copyright Act (see for example article L113-7).<sup>114</sup> Telling in this respect is also the note of Saleilles under a French judgment delivered by the Court of Appeal in Paris where he expressly states that «the creative activity of the person is considered inherent to his personality, being an internal and thriving power...».<sup>115</sup>

The Belgian Copyright Act, which is one of the most recent in the area, does not expressly require a certain type of originality. Originality as in France is a notion based on case-law or scholarly opinion. Their approach rests on the premise that the author of a work can only be a person. As long as a person creates the work, he also puts his personal imprint on it. In other words the work is essentially

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<sup>112</sup> Berne Convention, Brussels Revision Conference, Documents 1948, 94-95 (Report by Plaisant). See also E Ulmer "*Copyright protection of scientific works*" (1972) 2 IIC 56; and S Ricketson, The Berne Convention for the protection of literary and artistic works: 1886 – 1986, Kluwer, Dordrecht, 1988, at 900.

<sup>113</sup> The various EU copyright Directives have attempted to harmonise at least in respect to issues within their scope the definition of originality. The yardstick used is that the work should be « the author's own intellectual creation ». This requirement is a bit stricter than the traditional common law concept and it seems to be a bit looser than the strictest continental views. Ricketson has argued that the continental views probably reflect better the intentions of the drafters of the Berne Convention. From this point of view the EU initiated change in UK law must be a positive development. S Ricketson, *op. cit.* note 112, at 900.

<sup>114</sup> In this article the wording 'intellectual creation' is used.

<sup>115</sup> 1 February 1990, Rec. Sirey, 1990,2,121.

the expression of the individual's personal intellectual effort.<sup>116</sup> The Belgian Supreme Court has ruled on two occasions that the law requires that the work has an individual character, in order for it to meet the requirement that an act of creation took place. The test for the individual character of the work was laid down as being that it had to be the expression of the intellectual effort of its creator.<sup>117</sup>

In contrast, German and Greek copyright laws are more explicit on this point. They state that «personal intellectual creations alone shall constitute works»<sup>118</sup>, and that «the term 'work' shall designate any original intellectual literary, artistic or scientific creation»<sup>119</sup> respectively.

The Anglo-Saxon system finds itself at the other end of the spectrum. In the British Copyright Designs and Patents Act 1988 a literary work has to be original to be protected by copyright.<sup>120</sup> Yet the express mention of the word 'original' in this context is not indicative of the British effort to meet the continental standards of originality. Some scholars would even argue that the Berne standards of protection are not met either.<sup>121</sup> It is more a consequence of the British mentality to distinguish between various categories and the rules that apply to them, before subjecting the rules to the system of literal interpretation. In that sense the category of original works is distinguished from that of derivative works.

Original in a British context implies a work which is not copied and which originates from the author.<sup>122</sup> The work is copyrightable as long as 'skill and labour' have been invested in it.<sup>123</sup> As Ricketson observes, common-law

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<sup>116</sup> J Corbet, *Auteursrecht*, Story – Scientia, Brussels, 1997, at 27.

<sup>117</sup> Cass., 27 April 1989, Pas., 1989, I, 908; Cass., 2 March 1993, Ing. Cons., 1993, 145.

<sup>118</sup> Art.2(2) of the German Copyright Act.

<sup>119</sup> Art.2(1) of the Greek Copyright Act.

<sup>120</sup> S.1(1)a CDPA 1988.

<sup>121</sup> See S Ricketson, *op. cit.* note 112, at 900.

<sup>122</sup> See Peterson J., *University of London Press v. University Tutorial Press* [1916] 2Ch. 601, at 608. See also Lord Pearce, *Ladbroke (Football) Ltd v. William Hill (Football) Ltd* [1964] 1 All ER 465, [1964] 1 WLR 273, at 479 and 291.

<sup>123</sup> Alternative expressions deriving from case-law are «skill, judgment and labour», «selection, judgment and experience» or «labour, skill and capital». See P Torremans - J Holyoak, *op. cit.* note

jurisdictions have often lowered the level of intellectual creation required for copyright so as to accord deserving plaintiffs a protection that would be more appropriate under unfair competition law.<sup>124</sup> According to Cornish, the limited meaning of originality in British law is justified on two grounds. «First, it reduces to a minimum the element of subjective judgment (and attendant uncertainties) in deciding what qualifies for protection. Secondly, it allows investment of labour and capital that in some way produces a literary result: this is true equally of the compiler of mundane facts and of the deviser of a football pool form whose real effort is in the market research determining the best bets to combine».<sup>125</sup>

Examples of original works in the British sense also include football fixture lists<sup>126</sup>, street directories<sup>127</sup>, trade catalogues<sup>128</sup>, timetable indexes<sup>129</sup>, sequences of numbers in a newspaper bingo game<sup>130</sup> and other kinds of works of very low or non-existent creativity. Copyright in Britain is often used as a sweeping legal provision for the protection of those works, for which no other legal protection, such as for example unfair competition law,<sup>131</sup> trade marks, patents, and so on, is available, if that protection is needed in situations where copying would result in an unfair competitive advantage for the party copying.<sup>132</sup> The British copyright law

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79, at 168.

<sup>124</sup> S Ricketson, *op. cit.* note 112, at 901. See also S Ricketson, "Reaping without sowing" [1984] UNSW Law Jo (special issue) 1, 7-13.

<sup>125</sup> W Cornish, *Intellectual property law*, 3rd ed., Sweet & Maxwell, 1996, at 335.

<sup>126</sup> See *supra* note 122, *Ladbroke v. W Hill* 1964, and *Football League v. Littlewoods* [1959] 2 All ER 546.

<sup>127</sup> *Kelly v. Morris* (1866) LR I Eq 697.

<sup>128</sup> *Collis v. Cater* (1898) 78 LT 613, *Purefory v. Sykes Boxall* (1955) 72 RP (89).

<sup>129</sup> *Blacklock v. Pearson* [1915] 2 Ch 376.

<sup>130</sup> *Mirror Newspapers Pty Ltd v. Queensland Newspapers Pty Ltd* [1982] Qd R 305 (Australia).

<sup>131</sup> Unfair competition law is non-existent in England.

<sup>132</sup> See, for example the *Exxon v. Exxon Insurance* [1982] Ch 119; [1981] 3 All ER 241; [1982] RPC 81, where no copyright was held to exist in the name Exxon. Trade mark law was clearly the more appropriate form of protection. In addition copyright in the name Exxon would mean as much as copyright in the expression and the idea, which would be a breach of the most sacred rule of

seems in this respect to close the gaps that are left by the absence of alternative legal solutions outside copyright law. As Cornish states, the fact that the defendant who has been awarded copyright protection tends to be a direct business competitor in cases of this kind, is not a mere coincidence<sup>133 134</sup>.

The US conduct in this area is also similar in this respect.<sup>135</sup> Copyright is approached as a legal protection for time and labour rather than as a means of protection for genuine literary works.<sup>136</sup> In this context it is not particularly difficult for someone to realise why for many years now moral rights have not (and in the US still do not) fit in easily with common-law copyright systems.<sup>137</sup>

The inclusion of computer programs within the category of literary works, the provision of the same kind of protection for compilations and also the fact that literary works in the British system come very close to, and sometimes coincide with, factual and utilitarian works, has caused a bending of copyright rules in Europe. In many jurisdictions where the term 'literary works' was constructed in such a way as to include almost everything, the danger of granting a strong (or in the future even stronger) copyright to any new kind of work, became apparent.<sup>138</sup> The danger is that the publishing and entertainment industries would be favoured

copyright: no protection for ideas. This is also an indication of the existence of a *de minimis* rule for British copyright.

<sup>133</sup> W Cornish, *op. cit.* note 125, at 335.

<sup>134</sup> The fact that British law no longer distinguishes between copyright and neighbouring rights, although the substantive rules on copyright that apply to both categories are still different, could be seen as further circumstantial evidence of the ongoing depurification of copyright. If the right in a sound recording is now also called copyright for example, it may be easier to bring further marginal works into the sphere of copyright.

<sup>135</sup> US Copyright Law, Title 17 of the US Code, para 102(a).

<sup>136</sup> Of course, this is now subject to the US Supreme's Court decision in the Feist case, which will be analysed in detail later on.

<sup>137</sup> For a limited exception see the VARA Act 1990, see further I Stamatoudi, « *Moral rights of authors in England: the missing emphasis on the role of creators* » [1997] 4 IPQ 478, at 483.

<sup>138</sup> See also to this end the article of Mr Justice Laddie, "Copyright: overstrength, over-regulated, over-rated?" [1996] 5 EIPR 253.

in the short term but could eventually be blocked in the long term, especially if they were to create products comprising pre-existing original material. Copyright had, and perhaps still has, to undergo either a purification (and narrow its scope of protected works down to a core) or a loosening of its rules (and provide a looser protection for more and more works). In common-law systems this protection should at least not be blocked by moral rights and uncertainty about the reactions of the authors involved. The interests of the industry are capable of destabilising or revitalising a national economy as a whole.

On the other hand continental copyright was facing immanent difficulties in accommodating new technology products within its regime of protection. Software, databases, multimedia products and so on, were obviously not presenting exactly the same problems as traditional literary works. For example, the utilitarian and functional nature of the product was a far more dominant factor in relation to software than in relation to literary works. The fact that often a certain result that is to be achieved imposes a particular means of expression, contrasts with the view that an author of a particular work is free to choose his own way of expressing that idea. A computer program cannot be seen as an entirely free creation of the mind. Any digital result is assisted by a computer. In contrast with analogue works, the work deriving from such a process can only partially be the creation of its author, as the technical environment often imposes a single possible mode of expression.<sup>139</sup> Moreover, the exception allowing reverse engineering and the right of the user to tailor the product to his own needs, impinged on copyright rules which were indispensable for the successful functioning of the market but which moved away from traditional copyright. Computer programs and the like were coming close to industrial products. Their protection was not aimed at favouring the author but the industry. In recent decades, of course, more and more people have been qualifying as authors.

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<sup>139</sup> P Deprez and V Fauchoux, *Lois, contrats et usages du multimédia*, Dixit, 1997, at 43.



### 3.2.6 Convergence of the two systems

The interesting point is that most systems have appeared to relax their rules on copyright. Moreover, they have also tended to narrow the gaps between each other. The pressure is twofold. First, intellectual property products have to survive in a market which is becoming more and more international and borderless and which sets its own rules. Secondly, because of this new reality the need for uniform rules has become increasingly obvious and pressing. Particularly in the context of the Single Market, the need for the European Union to develop an all-embracing common commercial policy dictates uniform solutions, at least with regard to such commercially successful markets and industries as multimedia.

#### 3.2.6.1 Examples of convergence in common law jurisdictions

##### 3.2.6.1.1 USA

Recently, in the United States the *Feist* decision<sup>140</sup> has created a certain amount of turbulence. Until that time the 'sweat-of-the-brow' principle applied to copyright works. Skill and labour sufficed for a work to qualify as a literary work. In *Feist* the white pages of a telephone directory were not found capable of attracting any copyright protection, since not enough skill and labour were found to have been invested in them. Yet the qualification of these sorts of compilations in the United States was not unusual, leading many scholars to talk about the redefinition of certain aspects of copyright law. Whether this was a push towards a more intellectually orientated approach is not clear. Despite a huge literature in the area we should not perhaps be very optimistic. The *Feist* decision was a decisive step towards the adoption of the EU database Directive, allowing databases in European Union Member States to be protected by copyright only when they constituted the author's own intellectual creation. For those databases, which are

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<sup>140</sup> *Feist Publications v. Rural Telephone* 499 US 340 (1991).

valuable because of the investment of time and money in them, but for which by reason of their factual nature would not attract copyright, a *sui generis* right has been introduced.<sup>141</sup>

### 3.2.6.1.2 Britain

Britain seems to be moving in the same direction. Yet, Britain's attitude was not always the result of its free will. In the recent *Magill* case, Magill, an Irish publisher came up with the idea of producing a weekly TV guide containing the programme listings of all channels broadcast in Ireland.<sup>142</sup> The British channels BBC and ITV and the Irish channel RTE successfully applied for an injunction, since they owned the copyright in their TV program listings, for which they were not prepared to give out any licences.<sup>143</sup> Magill's argument was that the TV channels held a dominant position in the market, which they were abusing by denying licences.

The approach of the Court until that time was that expressed in *Volvo v. Veng*.<sup>144</sup> The possession of an intellectual property right is very likely to make you commercially dominant, since it confers on you a monopoly, albeit a perfectly legitimate monopoly. The possession of a right as such can under no circumstances be an infringement of competition law rules. Yet, its exercise can. The refusal by Volvo to license a design right to a competitor in the spare parts market was not

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<sup>141</sup> WIPO is currently also looking into the possibility of adopting an international legal instrument in the area of databases.

<sup>142</sup> Case T-69/89 [1991] 4 CMLR 586 and Case T-76/89 [1991] 4 CMLR 745 and see on appeal Joined cases C-241/91 P and C-242/91 P *Radio Telefis Eireann and Independent Television Publications Limited v. Commission* [1995] ECR I-743, [1995] 4 CMLR 718.

<sup>143</sup> This case eventually came to appeal before the European Court of Justice. At the same time as the Irish courts, the EC Commission took up Magill's case. The Commission's decision in favour of Magill was appealed unsuccessfully before the Court of First Instance. A further appeal to the Court of Justice followed. Joint cases C-241 and C-242/91P, *Radio Telefis Eireann and Independent Television Publications Ltd v. Commission* [1995] E.C.R. I-743 and [1995] 4 C.M.L.R. 718

<sup>144</sup> Case 238/87 *Volvo AB v. Erik Veng* [1988] ECR 6211 ; [1989] 4 CMLR 122.

found to constitute an abuse of dominant position, but a normal exercise of its exclusive rights. The Court in *Magill*, however, did not regard the denial of licences by the TV channels as a legitimate exercise of the rights of their copyrights in the TV program listings. According to the Court this could not be the case in so far as 'exceptional circumstances' were found to have taken place.

The Court's alternative competition-based approach, although referring impliedly to the copyright issues, focuses on the following exceptional circumstances. The first 'exceptional circumstance' to be found, which made this case and the legal solution adopted in it different from all previous cases, was the fact that the work examined constituted information rather than a work. Of course, it would have been out of the Court's jurisdiction to rule on the nature of the work, since this is an issue entirely left with the Member States.<sup>145</sup> The fact was that TV programme listings constituted information and that information was indispensable for the creation of the new product. Second, no alternative existed on the market for that product, though there was a constant and regular demand for it on the part of consumers. Thirdly, the TV channels were the only source of this information. They were not entitled to keep that information to themselves on the grounds of EU competition law, since their primary occupation was not publishing but broadcasting. On these grounds the broadcasting companies were finally obliged to grant licences.

This decision gave rise to a lot of comments and controversy as its wording seems to overstress the importance of competition law and question certain aspects of national intellectual property law. Many commentators felt it impinged on national competence and sovereignty and that it was in substance more a decision of whether TV programme listings merited copyright protection and less a decision on competition policy.<sup>146</sup> The fact that Britain and Ireland were granting copyright protection for functional and utilitarian works was bound to create problems in the

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<sup>145</sup> See in this respect the discussion in Opinion 1/94 [1994] ECR I-5267.

<sup>146</sup> See I Stamatoudi, "*The hidden agenda in Magill and its impact on new technologies*" (1998) 1 The Journal of World Intellectual Property 153.

context of a Single Market as this protection was reserved for a limited number of company monopolies. It was not justified on the grounds of particular creativity and personal expression, and many felt that functional and utilitarian works were not worthy of such a regime of protection and such a restriction on the level of innovation and production.

The BBC did not appeal to the Court of Justice as Britain had at that stage already amended its law in line with the decision of the Court of First Instance. The Broadcasting Act 1990 was introduced and it includes the compulsory licensing of TV programme listings.

Another recent upgrading of British law took place with the incorporation of databases into the CDPA 1988 in the chapter on literary works. The novel thing about the incorporation of databases into the British Act was not the incorporation as such, but the fact that the copyrightability of databases required an enhanced standard of originality compared to the standard Britain already provided for. Consequently the new law provides that in order to attract copyright protection they have to be 'the author's own intellectual creation'.<sup>147</sup> Apparently, the mere fact that they are not copied or the observation that a sufficient amount of skill and labour has been invested in their construction will not suffice. Yet, it is not clear to what extent this requirement alters the overall British standard of originality.<sup>148</sup>

What is interesting to note at this point is that, although the originality requirement was found in the database Directive, the wording was in reality copied directly from the earlier software Directive. Computer programs, however still fall under the 'normal' requirement of originality in the CDPA, since no separate reference to 'the author's own intellectual creation' is made. Any idea that the general absence of a definition of originality would allow for the adoption of different criteria in relation to computer software must now be abandoned. Was that perhaps a conscious decision, which Britain followed in the cases of databases where Community pressure was more substantial this time, or was it an erroneous

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<sup>147</sup> Copyright and Rights in Databases Regulations 1997 (SI 1997/3032).

<sup>148</sup> I Stamatoudi, *op. cit.* 56, at 453seq.

placement of computer programs, which the Courts will have to put right? Even if the latter is the case, that still fits oddly with the British tradition of concrete and specific legislation and literal interpretation of the law.

The introduction of the Broadcasting Act 1990 and the incorporation of the enhanced originality criterion for databases in Britain signify a turn, though under coercion, towards stricter originality criteria. Yet, this apparent change of heart should not be overestimated as both cases were a result of external pressure and not a conscientious national attempt at redefinition of certain issues of copyright. Street directories and trade catalogues have a fair chance of qualifying for copyright protection under the heading of literary works in the CDPA 1988.

### **3.2.6.2 Examples of convergence in continental law jurisdictions**

#### **3.2.6.2.1 The 'droit d'auteur' tradition**

The above is not simply a case of the Anglo-Saxon system heading towards, or accepting fragments of, an author-friendly approach. It is also a case of the continental system making some move towards the entrepreneurial approach, as a result of two types of pressure. The first one is brought about by the new reality emerging from new technology products and other works needing copyright protection. And the second one is the pressure deriving from the Communities' main commercial objectives.

First, the inclusion of computer programs and databases into copyright was altogether a bold step on the part of the continental system. The *droit d'auteur* system was always particularly orientated towards creations which were genuinely original and carried the personal imprint of the author. Computer programs and databases could only fit in badly with that model as the personal imprint of the author and the expression of his personality, were far from evident in new technology products. Software and databases were considered to be more functional works, a utilitarian path towards achieving a technologically successful

dialogue with computers, and in turn guaranteeing an equally successful entrance to the international market. Software and databases were more commodities than works.

This is also obvious from the fact that French copyright law with regard to the regulation of computer programs has more or less adopted the common-law approach. Specifically in articles L121-7 of French copyright law, the author of a software program cannot prohibit its modification by the third party to which he has assigned his economic rights, unless prejudice is caused to his honour and reputation. He cannot exercise his 'droit de repentir'/right of withdrawal either. That has made many commentators wonder whether it is a sign that Anglo-Saxon copyright law is better equipped to deal with new technologies.<sup>149</sup> We should however bear in mind, as discussed earlier on, that computer programs are theoretically at least not considered to be genuine literary works. This must surely be an aspect which creates problems in a system such as the French with personality-orientated philosophical foundations.

The Belgian Copyright Act excluded computer programs altogether from its scope. However, a very similar Act,<sup>150</sup> issued the same day as the Copyright Act, affords computer programs protection along the same lines as copyright. Computer programs were deemed in this system not to sit easily with traditional literary works. Therefore they were given a tailor-made regime, which starts from a copyright basis. Such a *sui generis* regime also makes it easier to avoid any infringement of the EU software Directive.

Similar developments are expected to take place with the implementation of the database Directive in the national laws of many EU Member States, this time, perhaps, from the starting point that databases are valuable for their collection of materials and less for the originality of their contents. In any event, with such

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<sup>149</sup> P Deprez and V Fauchoux, *op. cit.* note 139, at 45.

<sup>150</sup> Law of 30th June 1994, "Loi transposant en droit belge la directive européenne du 14 mai 1991 concernant la protection juridique des programmes d'ordinateur" [1994] *Moniteur Belge* – *Belgisch Staatsblad* (27.07.1994), 19315.

widespread commercial value, computer programs and databases have been, or will in the near future be, incorporated into the copyright or copyright-like laws of the EU Member States. However, the same commercial value arguably makes them unlikely contestants for copyright protection.

The inclusion of copyright programs and databases in the laws of the EU Member States will not be without practical repercussions regarding the traditional elements of continental copyright.<sup>151</sup> The originality criterion in relation to new technology products has clearly been lowered in many countries of the *droit d'auteur* tradition so as to make it possible for new technology products to qualify for copyright protection.<sup>152</sup> The 'new' originality criterion for both computer programs and databases is for the work to be 'the author's own intellectual creation'. In other words the borderline is being drawn somewhere between the common-law requirement and the continental one, perhaps with a slight tendency to favour the latter.

Also the introduction in various continental systems of levies on the tapes or any other technical devices that can be used for copying purposes,<sup>153</sup> schemes of blanket licences for music and photocopying, and certain non-voluntary licences, has relaxed the rules on copyright which originally provided the author with total and absolute control over his work. The author's advance permission for the reproduction of his work is not always a necessary prerequisite (or as the continental system would put it, the reproduction of certain parts of someone's work will not in all cases be found to be abusive). The interests of the exploiters of the publishing, recording and entertainment industry are taken into account to an even larger extent. In such cases the author is left with a simple entitlement to some remuneration but with no discretion. And this is increasingly going to be the

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<sup>151</sup> We have previously seen, of course, that in common-law copyright the level of originality was brought up in relation to new technology products.

<sup>152</sup> See especially, the literature regarding the German originality criterion. I Stamatoudi, *op. cit.* note 56, at 448. A Raubenheimer, "The new copyright provisions for the protection of computer programs in Germany" (1995) 4 Law, Computers & Artificial Intelligence 5, at 7seq.

<sup>153</sup> See for example article 18§3 of the Greek Copyright Act 2121/1993.

case in the future because of the vast and ever growing number of collecting societies' schemes.

Lastly, the inclusion by continental law systems of sound recordings, broadcasts, cable programs, and of rights of producers and performers in the scope of their intellectual property laws (even though only as neighbouring rights), undoubtedly signifies an essential departure from the concept of traditional copyright in the *droit d'auteur* countries.<sup>154</sup> Sound recordings, broadcasts and cable programs are by their nature derivative works when they are compared to traditional literary works. Still, they should not be confused with the original derivative works, which are essentially the translations, adaptations and alterations of an original pre-existing work. The former derivative works are more a sort of incorporation of traditional original works into some kind of medium, either off-line (tapes, disks, video, CD-ROMs, etc.) or on-line (broadcasting, cable transmission, the Internet, etc.). With regard to the protection of producers and performers, this is based on the 'compiling' of the work they do, i.e. films, recordings,<sup>155</sup> rather than on their actual interpretation of it. Original works offer only the basis for the performance of such tasks.

Apart from the 'natural' convergence between the common-law and continental systems, which is basically the outcome of mutual influencing and interaction, the European Union and the operation of the single market dictate solutions in the area of intellectual property for the sake of uniformity. When the European Economic Community was first set up, no one could possibly have foreseen the success of intellectual property products on the European market. Their importance was rather insignificant. At the end of the 19th century the protection of the works and that of the authors became a particular objective of the Community, though still not a first priority. Nowadays, legislation has been

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<sup>154</sup> In common-law countries, like Britain, the protection of all these works, plus the protection of some others as well, i.e. the protection of the typographical arrangement of a publication, are all considered to be copyright.

<sup>155</sup> We could also say that they contribute to the fixation of the work and to the finishing touches.



enacted in many areas of intellectual property rights. Their direct relevance to the Single Market and the Community's commercial policy are indisputable. The stability of the Common Market and its potential to compete in the area essentially depends on the ease with which intellectual property products are marketed. This is dependent on uniformity in the laws of the Member States. Uniformity, of course, always opts for one solution or the other. The provisions of both the copyright and the *droit d'auteur* system can be used as starting points. The time when a common copyright law will be introduced and will be applicable in every Member State is arguably not too far away, although such an introduction will not be an easy task at all. The political interests of the various Member States will be taken into account, as well as the comments of those who allege that total uniformity can never exist,<sup>156</sup> since a lot will depend on the interpretation of the law and not only on its wording. However, a common text for everybody is a significant start. Even more apparent is that the national laws are heading in the direction of convergence. Yet, in this instance any new copyright law is bound to start from the economic aspects of copyright whilst any change to the moral rights provisions will be left to the discretion of the Member States.

### 3.3 Fixation of literary works

Fixation in relation to literary works is not a necessary prerequisite in all jurisdictions.<sup>157</sup> However, even in those jurisdictions where this does not constitute

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<sup>156</sup> It might even be undesirable since copyright reflects national cultures and it is generally accepted that these are different in the various parts of the Community. See in this respect article 128 EC.

<sup>157</sup> Usually only common-law countries require fixation for literary works. The relevant provision in the Berne Convention was inserted after pressure especially from the British delegation. The drafters were also afraid that if they did not include it the USA would not join Berne either. See S Ricketson, *op. cit.* note 112, at 243. See in this respect, H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 1, «copyright springs into existence as soon as the work is written down or otherwise recorded in some reasonably persistent form». See also the British 1956 Act, s.49(9), which states

an express prerequisite, the existence of a work on some kind of medium is either customary or appreciated on the grounds that it facilitates proof. In jurisdictions where this forms a prerequisite,<sup>158</sup> no precise material support is required. Yet whatever material support is used, its fixation on it needs to take some kind of permanent form.

The requirement of permanence may cause some inconvenience in these jurisdictions, if it is to be approached in its traditional sense. As technology progresses permanence is less straightforward, as the electronic format is used more and more. This is especially so from the point of view of on-line services. Of course, for those jurisdictions which have incorporated permanence on the grounds of its role in facilitating proof, 'less' permanence may still do the job, as long as it is enough to prove fixation. (Fixation and permanence seem to be notions that are inextricably linked). Whether, for example, the RAM memory of a computer still complies with the requirement of permanence is not at all clear. The case-law in this area remains contradictory for the time being.<sup>159</sup> Dematerialisation inevitably seems to form the future for two reasons.

Firstly, information will be valuable as such, irrespective of its carrier. Secondly, the lifespan of any fixation of the works may be reduced in any case to a fraction of a second as a result of the technical revolution. If the notion of fixation is to be shrunk to such an extent, this may make one wonder whether the concept of fixation still serves a useful purpose. Issues such as the above are indicative of the forthcoming problems in the area.

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that the work has to be fixed because it is by nature a monopoly and «there must be certainty in the subject matter of such monopoly in order to avoid injustice to the rest of the world». The function of fixation as proof and hard evidence is apparent in common-law countries.

<sup>158</sup> The US and Britain are examples of jurisdictions requiring fixation of the work.

<sup>159</sup> See the US cases such as *MAI Systems Corp. v. Peak Computer, Inc.*, 991 F.2d 511 (9th Cir.1993) and *TriadSystems Corp. v. Southeastern Express Co.* US District Court for the Northern District of California 31 USPQ 2D 1239.

### 3.4 Multimedia products and traditional literary works

If we compare a multimedia work with a traditional literary work merely on a theoretical level, and not on the level of practical consequences, we observe the following differences:-

By literary works we essentially understand written or spoken text,<sup>160</sup> in other words a homogeneous original product, authored by one or more persons (in any case a limited number of persons) and one which is basically intended to be read or listened to. At this stage, fixation and personal imprint are not mandatory requirements according to the jurisdictions we are dealing with.

If a work originates from a common-law jurisdiction, fixation has to take place.

If we are to assume that traditional literary works originate from continental law jurisdictions and naturally come closer to a *droit d'auteur* definition of literary works, then we also have to admit that the work at issue has to have the personal imprint of the author, who in this case by definition can only be a natural person. That grants him, of course, both economic and moral rights.

It goes without saying that in every case the work has to be new, in so far as it expresses an idea in a novel way. This idea may have been expressed in the past, but not in the same way.

Taking the aforementioned points into account, we can observe the following in relation to multimedia products:

- First, multimedia products are not text. Multimedia products by definition have to combine more than one form of expression. Thus, even if text is a prevalent expression, which is only rarely going to be the case, it will still not be the only expression involved. Literary works hardly take into account the feature of combining different types of expression. They are always approached as being

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<sup>160</sup> Words that are sung are generally also included, and singing is seen as a form of speech. See, for example, s.3(1) CDPA 1988.

homogenous works.

- Second, multimedia products are not essentially meant to be read or listened to. This follows on from the previous observation. Multimedia products are usually meant to be shown and browsed through, and this is also the reason why the use of a screen is vital in their case.

- Third, multimedia products do not have any standardised permanent form. Since manipulation of their contents is the rule in relation to multimedia products, fixation and permanence, at least in the traditional sense, are impossible. There may be potential for a permanent form whenever the opportunity to manipulate the contents is used, but that potential may not be realised every time. It is important to realise though that in all cases the tools that allow for manipulation will take a permanent form, whilst in most cases very few, if any, of the results of such manipulations will take a permanent form.

- Fourth, multimedia products are not works of language. Multimedia works are not conceived and fixed in a linguistic form, through the use of language. It is binary code which is used for their construction. Binary code does not constitute a high level computer language such as Cobol or Pascal for example. The language of binary code is incomprehensible even to computer experts and is thought to remain outside the scope of artificial languages.<sup>161</sup>

- Fifth, multimedia products are more similar to compilations than to genuine literary works. Unless a multimedia product is commissioned, and its materials are written or created from scratch, it cannot form a literary work in the sense we described earlier. It can only be a collection of works, even though these works may be literary works. Since this is often the case, multimedia products are essentially compilations. However, all the other prerequisites of a conventional

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<sup>161</sup> See above the section on 'natural or artificial language?'.

traditional written compilation are still lacking so far as the basic characteristics of a work of language are concerned, i.e. text, standardised form, etc.<sup>162</sup>

- Sixth, originality of contents is scarcely present. If there is any kind of originality to be found in a classic multimedia product, it will only be in relation to the presentation of its material. The originality of the materials themselves is not to be judged, since that forms the object of other separate rights.

- Finally, only rarely will the author be a natural person. Multimedia products, because of the investment they require for their production in terms of time, money and human resources, will only rarely constitute a project undertaken by a single person. Large enterprises, which possess the capital and the equipment, are the only ones likely to produce multimedia products. That and that alone would suffice to show how difficult it is to show any personal imprint on the work. The work is not always derived solely from the author's mind, but is also the result of the influence of the tools provided by computers. It is not always expressed in the author's own way, but in the style which is required in order for the work to be able to operate when placed in its functional environment. Thus, the link between the person and the work is in certain cases non-existent. As a consequence there is perhaps no longer any reason to grant the author anything other than economic rights (i.e. moral rights).

Apart from the theoretical problems multimedia products would present if they were to be included within the scope of traditional literary works, there are also a number of practical considerations that have to be taken into account. As will be seen, these considerations create even more obstacles for the inclusion of multimedia in the category of literary works.

First, in certain jurisdictions, for example in Germany, both economic and moral rights are linked. They both form aspects of one and the same right, which is directly dependent on the author of the work. This is the expression of the monistic

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<sup>162</sup> See *infra* chapter IV on 'collections and compilations'.

theory. In cases of commercial exploitation of his work the author has to license out only that part of these rights which are required by the specific nature of the exploitation, characteristically mentioned in the German law as 'utilisation'. A party other than the author can never be the owner of the author's work.<sup>163</sup> He can only use it. The author is not supposed to assign the whole bundle of his economic rights to third parties, as he is allowed to do in jurisdictions governed by the dualistic theory.<sup>164</sup>

This German monistic approach has, of course, some parallel practical consequences. Every time an entrepreneur wants to proceed with a new intellectual creation, or even digitise the existing one, he has always to ask the author's separate permission in cases where specific permission has not been provided in the contract.<sup>165</sup> Nothing seems to be implied unless it is expressly referred to in the exploitation contract. In cases of digital publishing the publisher has to go back to the author and ask for a new licence. If all economic rights were transferred to the exploiter right from the start, the production of any new intellectual property works would be facilitated, by gaining time and money. In the new technology industries this is a vital point for efficiency and market success.

Moreover, this approach creates certainty for the exploiter with regard to how many rights he possesses and if these rights are sufficient to embark on a new project. It is very likely that the exploiter will have undergone lengthy negotiations and discussions in order to obtain licences, only to find out at the end that 5% of the authors, who are not willing to give out any more licences, are impeding the

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<sup>163</sup> The whole bundle of economic rights in a work can be fully transferred only on the death of or by reason of the death of the author.

<sup>164</sup> In essence the practical significance of such a differentiation is of limited interest nowadays, since licences in Germany can be drafted almost as broadly as an assignment of economic rights in a work is in other countries.

<sup>165</sup> Older contracts that were concerned with the exploitation of the work through analogue technology present obvious problems in this respect, as electronic rights, as they are often called, are not necessarily included in the licence. Most *droit d'auteur* systems operate in addition a rule which stipulates that in case of doubt the advantage is given to the author (*in dubio pro autore*).

whole project. The problem as such might not look significant immediately. But it certainly does, if one takes into account that in a multimedia product, thousands of works can be involved, and some of them, especially those for scientific or educational use, have only one source of supply. Particularly, in common-law jurisdictions, where the work protected can be a work of low originality, the right of the author to deny access to his work can have social repercussions as well.<sup>166</sup>

In relation to the same problem we realise that different standards will apply to different countries, even for works which are thought to have undergone substantial uniform regulation through international conventions. Small problems can quickly grow into big problems, capable of obstructing any normal function of the intellectual creations' market.

Another significant difference between the various states are the provisions for creators-employees. In the Anglo-Saxon system, copyright in a work created by an employee in the course of his employment, according to the CDPA 1988,<sup>167</sup> belongs automatically to the employer, unless an agreement to the contrary exists. These works are known in America as 'works made for hire'.<sup>168</sup>

Yet, the position as to the ownership of copyright for works created in the course of employment is different in the *droit d'auteur* system. *Droit d'auteur* systems start from the presumption that only a natural person can create a literary work. Consequently, the logical owner of any right created in the work must be the person-author who created it. This is so irrespective of the existence of a contract of employment or any other circumstances. It is only at a second stage that the author can transfer the economic rights to the work to someone else, such as his employer, or in the German model give the employer the right to utilise the work. This transfer of economic rights, though, can also take place through the contract of employment.

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<sup>166</sup> See the literature on the public access to information as a socio-economic need.

<sup>167</sup> «where a literary work is made by an employee in the course of his employment, his employer is the first owner of any copyright in the work subject to any agreement to the contrary» (art.11(2)).

<sup>168</sup> Para 2d(b) of the US Copyright Act.

The presumption does not apply in all cases. In the case of computer programs, France provides that «the economic rights in the software and its documentation created by one or more employees in the execution of their duties or following the instructions given by their employer shall be the property of the employer and he exclusively shall be entitled to exercise them».<sup>169</sup> This does not necessarily imply that France has adopted the common-law line or that it has bent its rules on copyright. As we explained earlier, computer programs are not considered to fall squarely within the definition of literary works. They are not seen as the personal expression of an idea by their individual creator. The looser link between a creator and the computer program justifies the different approach in relation to computer ownership.

The different regulation of the Anglo-Saxon system and continental system with regard to employees' economic rights to their works advocates for different practical solutions. It seems logical to admit that the former system favours a less time and money consuming attitude towards the clearance of rights as fewer rightholders may be involved in relation to each work. In reality, though, there are only a few cases, if any at all, where, in their employment contracts, employers have not foreseen the opportunity of having transferred to them the whole bundle of economic rights in a work created by their employees, in the course of their employment.

Moral rights can also constitute obstacles in the production and marketing of multimedia works. The position in each country differs. A product which might be perfectly legitimate in one state might infringe copyright when imported and marketed in another state. Such semi-infringing products cannot circulate freely and efficiently on the international market. Clear-cut solutions which lead to security in transactions are called for. This is an issue which will be discussed in further detail in a following chapter.

Differences in the exceptions to copyright infringement in the various legal systems create further impediments to the commercialisation of multimedia works.

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<sup>169</sup> Art.L113-9. See also art.69b(1) of the German Copyright Act.



The main problem, however, in respect of our present discussion is the fact that many exceptions in the various legal systems have been drafted for special types of copyright works.<sup>170</sup> Certain exceptions have been drafted with the traditional literary works' concept in mind. It is not a foregone conclusion that multimedia products, if they are to be put in the category of literary works, should also fall under these exceptions. For example, in the case of an exception for review and criticism or an exception on grounds of 'fair use' (common-law system)<sup>171</sup> or citation from a work (France),<sup>172</sup> it is not immediately evident how much this exception is to allow. The same problem as the one relating to the estimation of a substantial part of a work being copied arises. How small should an item of a work be so as to render its copying acceptable? In the case of literary works that is not difficult to say. A small passage or two or three pages of a book, when referred to in another work, do not cause any problems, because they cannot stand independently. Yet, in the case of multimedia products a tiny item of the whole work can still be a perfectly independent work on its own, e.g. extraction of a

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<sup>170</sup> See the debate on the draft European Parliament and Council Directive on the harmonisation of certain aspects of copyright and related rights in the Information Society, Brussels, 10.12.1997 COM(97) 628 final concerning the point of exceptions (article 5), as well as the changes in the amended proposal for a European Parliament and Council Directive on certain aspects of copyright and related rights in the information society [1999] OJ C180/6.

<sup>171</sup> This US concept should be distinguished from the narrower 'fair dealing' concept in the CDPA 1988.

<sup>172</sup> The right of citation raises another controversial issue. Any multimedia work almost necessarily contains a vast number of extracts from pre-existing works. The right of citation seems to permit the borrowing of these extracts in all freedom. A laxist application of this right would therefore necessarily mean that the multimedia producer will not even need to negotiate a licence with many rightholders. Questions need nevertheless to be asked such as whether any exception should cover the commercial or competing use of these citations or whether systematic borrowing of small pieces of works is not in reality an abuse of the right of citation because in practical terms it blocks the proper application of copyright. Even more questions would arise when one is to envisage the application of any exception to the borrowing of the entirety of a small existing work. See also G Vercken, *op. cit.* note 3, at 71. See also the Sirinelli Report on Multimedia and New Technologies, France, Ministère de la culture et de la Francophonie, Paris, 1994, at 70.

painting from a multimedia work reciting the life of Leonardo Da Vinci and the whole collection of his artistic works. In such cases the exception provided in the national copyright acts can only find grounds of application in relation to literary works. In the case of multimedia its interpretation is either problematic and insufficient or incapable of producing any effect.<sup>173</sup> New technology products have to be assessed on their own merits and according to their own needs.

Both from a theoretical and a practical point of view, it can be observed that multimedia do not immediately qualify as original literary works. Taking first the theoretical problems, the notion of literary works would be unjustifiably stretched if it were to include multimedia products. It is vital to restrict each category to homogenous groups of products. Any other solution would undermine the logic of any system of copyright that attempts to divide the mass of protected works into various categories with specific characteristics and specific legal provisions to match these characteristics.

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<sup>173</sup> Perhaps a criterion other than the extraction of a substantial part of a work is called for. A part, though not substantial, which might economically harm the author of the new technology product by its reproduction by a third party seems to be more appropriate in this case.

## CHAPTER IV

### COLLECTIONS AND COMPILATIONS

#### 4.1 Traditional approaches to collections and compilations

##### 4.1.1 The Berne Convention

If multimedia products come close to literary works in any sense, it would be in the category of collections. The leading text for the definition of collections is the Berne Convention.<sup>174</sup> Collections for the purposes of the Berne Convention are only collections of literary or artistic works, such as encyclopaedias and anthologies. These works qualify as literary works, or else as intellectual creations, not by reason of the originality of their contents, as would be the case with any genuine literary work, but by reason of the selection or arrangement of their contents. If collections are thought to have any resemblance to literary works, it is mostly because they incorporate original literary and artistic works in a manner which is considered original, and because traditionally they also present themselves in written-book format. Their qualification as copyrightable material, however, is meant to be without prejudice to the copyright existing in each of the works forming part of such collections.<sup>175</sup>

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<sup>174</sup> Art.2(5) of the Berne Convention. TRIPs Agreement also refers to the definition of the Berne. See art.9 of TRIPs.

<sup>175</sup> Collections are also referred in art.2bis(3) of the Berne Convention, in the sense of collections of lectures, addresses and other similar works. If we are to stick to the letter of this provision only collections of works by one and the same author qualify for copyright protection. Such a solution, however, would unjustifiably restrict the scope of collections of art.2(5). It is argued that to this end we have also to accept collections of works by different authors. See the Berlin Conference, Actes 1908, 232-234, and S Ricketson, *op. cit.* note 112, at 300.

The Berne Convention's provision on compilations has been incorporated into the national laws of the Member States in various ways. However, this does not cause too many problems since the Berne Convention provides only for *de minimis* rules. Member States can deviate from them as long as the protection they afford to works is stronger or wider in substance than the one provided for in the Berne Convention. Any extended protection with regard to compilations can take two forms. First, the exclusive rights afforded to collections can be wider in content than the ones provided in Berne, or second the notion of collections can be drafted in such a way as to include a larger variety of works. Either of these forms can occur without the other or alternatively both may apply.

Member States have incorporated collections in the regime of protection for literary works. Collections have been given the same form of protection as any other type of literary work. 'Collection', however, is not the only term used in the national legislations in order to comply with the Berne Convention's provisions on collections. The term 'compilation' is also used in various national laws. The French authoritative text of the Berne Convention refers to collections as 'recueils d'oeuvres littéraires et artistiques'. This term has been translated into English as 'collections', though there was also the opinion that the term 'compilation' came closer to the exact meaning of 'recueil'.<sup>176</sup> Any attempt at making a distinction between collections and compilations will not be easy. We could argue that a compilation involves more skill and labour. A collection can after all be the mere juxtaposition of whole works, one after the other, without the expenditure of any particular skill or effort.<sup>177</sup> 'Compilation', however, has inherent in it the concept of compiling. Compiling can be done in relation to whole works, but it is usually done in relation to parts or extracts of works. Therefore more of a personal judgment is needed. This difference is, however, only of academic value, since the originality of a collection will be judged on the grounds of the selection and

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<sup>176</sup> See Ladas' opinion as referred in S Ricketson, *op. cit.* note 112, at 300.

<sup>177</sup> The definition given by the Shorter Oxford Dictionary suggests that to 'compile' means to construct a written or printed work out of materials collected from various sources.

arrangement either of the parts or of the whole works incorporated in it. In this light both terms can be used interchangeably.

Since the distinction between the term 'collection' and that of 'compilation' is only semantic, we will confine ourselves to the express differences deriving from the various national substantive provisions with regard to collections. All Member States have placed collections within the ambit of literary works, and therefore any rights granted to an author of a literary work are also granted to the person who has made the selection/arrangement or carried out the editing of the materials which he has compiled. However, the notion of a compilation is defined differently in some Member States when compared with that of the Berne Convention. Examples of jurisdictions extending the notion of collections are, amongst others, the Greek, German and US jurisdictions.

#### **4.1.2 Greece**

According to article 2(1) of the Greek Copyright Act, what is protected are the collections of works, expressions of folklore or simple facts and data, such as encyclopaedias, anthologies and databases. This would be protected anyway by reason of the selection and arrangement of their contents, but under Greek copyright law, the notion of works from which a collection is compiled is not limited to literary or artistic works. It can comprise any work qualifying under the Greek Copyright Act.<sup>178</sup> Databases for example are included within the scope of compilations, and this inclusion took place even before the introduction of any legislation in the area of databases at Community level. Databases are essentially seen as collections of mere facts and data, where facts and data constitute the main contents of a collection, which might at the same time include a number of works (literary, artistic or other).

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<sup>178</sup> See article 2(1)-(3) of the Greek Copyright Act 2121/1993.

### 4.1.3 Germany

The German Copyright Act refers to collections in a general manner. As it is put in article 4 of the Copyright Act 1965 «Collections of works or other contributions...shall enjoy protection as independent works». Since 'other contributions' are distinguished from 'works', which are (or may form) one of the first possible components of a collection, an argument *a contrario* arises according to which 'other contributions' are not necessarily works. Information, data or mere facts are possible examples of what is likely to be meant by 'other contributions' according to the wording of the German Copyright Act.

### 4.1.4 USA

The Americans refer to compilations in more or less the same sense as the Greeks and the Germans. A compilation can contain practically anything from pre-existing materials (probably meaning works in the broad sense) to data.<sup>179</sup> What is interesting to note at this point is that compilations under the American Act are a notion of genus (genre), including 'collective works' which is a notion of species. The examples of collections, given in the Berne Convention, such as encyclopaedias and anthologies, are here referred to as 'collective works' together with the example of periodical issues.

The fact that the Americans refer to collective works in almost the same sense as they refer to compilations and the fact that within these notions they also include periodicals (and probably other similar works, such as newspapers),<sup>180</sup> is perhaps a relic of two suggestions made by national delegations in the course of past reviews of the Berne Convention. One suggestion concerned the replacement of the term 'collections' with that of 'collective works'. This suggestion was rejected on the grounds that the introduction of this new term would cause

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<sup>179</sup> Art.101(5) and art.103 of the US Copyright Act.

<sup>180</sup> Art.101(5) of the US Copyright Act.

confusion with the same term used in a completely different way in some national jurisdictions, for example the French.<sup>181</sup> The second suggestion presented by the British delegation at the Brussels Conference, was that magazines, newspapers and reviews should be included within the express wording of the definition of compilations. This was also partially rejected. Magazines, newspapers and reviews might eventually constitute examples of compilations, in so far as they satisfy the requirements of the relevant provisions and constitute intellectual creations. However, their express inclusion in the actual wording of compilations was not desirable, since they do not form characteristic paradigms of compilations. As was pointed out by Josef Kohler:

“The choice and organisation of articles in a newspaper [is] dictated by concern for the interest of readers, and not by any «preoccupation with giving the journal an intellectual unity expressed as a creative thought»”.<sup>182</sup>

Greece, Germany and the United States have drafted the rubric of ‘compilations’ as widely as possible. Not only are compilations of literary and artistic works covered, but also compilations of any kind of works. In addition not only do compilations of works qualify, but also collections of materials other than works, such as information, facts, data, figures and so on. This approach, quite unintentionally, came close to the European initiative which followed in the area of databases. Databases are arguably the successor of compilations in modern times.

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<sup>181</sup> ‘Collections’ should be distinguished from the notion of ‘collective works’ as this is referred to in some national laws, i.e. the French Copyright Act. The latter term is essentially used with reference to genuine literary works authored by more than one person, the individual contributions being hard to distinguish. A suggestion made in the Brussels Conference in 1948 for the term ‘collections’ to be replaced by that of ‘collective works’ was rejected on the grounds that it would be confusing (Documents 1948, 157).

<sup>182</sup> J Kohler, Gewerblicher Rechtsschutz und Urheberrecht (1917), 1, referred to by the International Office in [1933] DA 72, 75, as referred in S Ricketson, *op. cit.* note 112, at 302.

#### 4.1.5 France

France stays one step behind. Qualifying collections are ‘collections of various works’.<sup>183</sup> The whole range of possible works are included within the ambit of collections. However, the term ‘works’ is defined in article L112-1 as ‘works of the mind’. This wording immediately refers to creations by authors which reflect their personality. This slightly higher originality criterion provides the step backwards by limiting the number of literary, artistic, musical, dramatic or other works that qualify. As a result, facts and data do not qualify as forming collections which are able to be protected under the French law.

#### 4.1.6 Britain

Britain’s approach is even more restrictive, but that restriction originates from the inclusion of limited types of works rather than from the originality criterion used.<sup>184</sup> In the CDPA 1988, compilations are put under the heading of literary works,<sup>185</sup> which includes any work, other than a dramatic or musical work, which is written, spoken or sung. This wording, however, presents one express and one implied limitation. The express limitation is that dramatic and musical works are excluded from the scope of compilations. The implied limitation is that any work, which is not capable of being expressed in a written format, is also excluded. A written format, of course, does not only imply words put on a piece of paper. ‘Writing’ according to the UK’s Copyright Act<sup>186</sup> is defined to include «any form of notation or code, whether by hand or otherwise and regardless of the method by which or the medium in or on which, it is recorded, and ‘written’ shall be

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<sup>183</sup> Art.L112-3 of the French Copyright Act.

<sup>184</sup> It has to be kept in mind that the CDPA originality criterion means that more works are seen as literary works. This destroys, at least in part, the restricting effect of the requirement that only literary works should be taken into account as forming the contents of a compilation.

<sup>185</sup> Section 3(1) CDPA 1988.

<sup>186</sup> S.178 CDPA 1988.



construed accordingly».

Since compilations come under the category of literary works, they need to be expressed in writing.<sup>187</sup> However, this requirement has to be met by the compilation, and this necessarily means by the compilation as a whole. That includes both the contents of the compilation, which are taken from other works,<sup>188</sup> and the structure, linking paragraphs, and so on of the compilation. It is, of course, understood that certain compilations may consist only of borrowed text without the compiler adding any text of his own. This does not prevent them from meeting the requirement that the work should be expressed in writing, since these borrowed texts form the whole of the work. In this sense the requirement that the work has to be expressed in writing is extremely similar, if not identical, to the fixation requirement.

Apart from having to be expressed in writing, the work also has to be original. This requirement logically applies at a second stage though, once the work has passed the writing hurdle. In very practical terms a minimum investment of skill and labour that has been invested into the compilation, or for that matter in any other literary work, needs to be shown. That minimum investment of skill and labour can be found in the selection, arrangement and use of existing elements on the basis of some kind of scientific and commercial judgment. This became clear in *Ladbroke v. William Hill*.<sup>189</sup> For a compilation this means that originality should not exist in relation to the copied text. It also means that the selection and arrangement should not necessarily be expressed in writing. All that is required is that the selection and arrangement are original. The originality can be implied by the structure of the compilation. Non-existent or minimalist linking phrases or paragraphs will not result in the whole work being *de minimis*.

If one brings together the definition of a compilation in the UK's

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<sup>187</sup> Section 3(1) CDPA 1988. See also Peterson J's reference to «every work which is expressed in print or writing, irrespective of the question whether the quality or style is high». *University of London Press Ltd v. University Tutorial Press* [1916] 2 CH 601, at 608.

<sup>188</sup> Pre-existing works or works commissioned for that purpose.

<sup>189</sup> *Ladbroke v. William Hill* [1964] 1 All ER 465; [1964] 1 WLR 273.

Copyright Act and that of the concept of 'writing', one can draw the conclusion that compilations which can not be put in writing eventually fall outside the scope of compilations in general. An obvious example of this would be, for instance, compilations containing only artistic works. Since artistic works can only be displayed, shown or presented, and cannot be written, in the sense required by the CDPA 1988, they fail to qualify as contents in a compilation that qualifies for copyright protection. As Monotti points out,

"...there is no copyright protection for a compilation of artistic works only...under...UK copyright legislation, unless such artistic works can be described as 'written'.....it is also possible that there is no copyright protection when such compilations include an insubstantial quantity of written material".<sup>190</sup>

With the introduction of databases this must now be wrong. But even without that, it is still unacceptable.

This conclusion is essentially a conclusion based, by and large, on the literal interpretation of the British Act.<sup>191</sup> Since artistic works are not considered to be works capable of being expressed in a written format, they remain outside the scope of protection of compilations. Yet, this conclusion is an undesirable one from two points of view. First, there is no justifying reason for distinguishing between compilations of literary works and compilations of artistic works. Both kinds of compilations require the same skill and labour for their creation. In common-law jurisdictions, skill and labour suffices for a work to qualify for copyright protection, and in fact such jurisdictions take a liberal attitude towards the protection of works, favouring a large range of products being capable of protection. Therefore the distinction between compilations of literary works and

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<sup>190</sup> A Monotti, "*The extent of copyright protection for compilations of artistic works*" [1993] 5 EIPR 156, at 161.

<sup>191</sup> A Monotti also draws the same conclusions with regard to Australian law. The Australian Copyright Act 1984, in its s.3(f) requires compilations to be «expressed in words, figures or symbols (whether or not in visible form)».

compilations of artistic works could not actually have been based on the grounds of more expenditure of effort on the part of the author.

The second point of view from which, perhaps, the failure to incorporate collections of artistic works within the definition of a compilation seems undesirable, is that it indicates that British law is not in full compliance with the Berne Convention. Given the fact that the Berne Convention's rules with regard to literary works constitute minimal rules of protection, leaving those collections of artistic works only outside the scope of compilations, is in fact a breach of the Convention. If the wording of the British Act is seen against this background, coupled with the purpose the protection of collections is meant to serve, an extensive and teleological approach is called for. The exclusion of collections of artistic works unduly restricts the ambit of copyright protection, destabilising the equilibrium of protection with regard to collections, and favouring only parts of it, whilst excluding other parts without any logical or acceptable reason.

This situation has now been changed by the introduction of a regime of protection for databases. The new regime has changed the definition of a compilation. A compilation is now defined as any compilation which is not a database.<sup>192</sup> This refers us to the definition of a database. A database is basically any compilation in which the works that are included can be accessed individually. These works should remain independent of one another and there must be some method according to which the works have been organised. It must be kept in mind that the structure of the statute does not allow the originality criterion to interfere at this stage. The term 'database' is defined irrespective of any originality. Since originality only comes in at a second stage, it does not affect the definition of a compilation that is not a database. In practical terms a compilation must be a collection of works which are not independent and can no longer be retrieved independently. A compilation could for example be a collection of sentences from various documents, which have been put together to form a single new text. Although the materials included still form a collection of works, they have in a

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<sup>192</sup> Section 3(1) CDPA 1988.

sense lost their independence. If they are retrieved independently they probably make no sense, or at least they do not serve the primary function of the collection.

Coming back to the problem created by a compilation of artistic works, one has to conclude that this has now been solved and that any incompatibility with the provisions of the Berne Convention arguably no longer exists. A collection of artistic works, in which these works remain independent of one another and can be accessed as such, as is for example the case with a catalogue for an exhibition, must now be a database, at least if it also meets the originality criterion at a second stage. A collection of artistic works, which are no longer independent from one another, but have for example been integrated to form a new work, must be a collage, and it is protected as such as an artistic work, once again subject to the originality criterion. A last point that can be added is the fact that the Berne Convention leaves the definition of the originality criterion to the Member States. A natural consequence of this is that the use of a different originality criterion for databases cannot have any influence on the definition of a compilation. In practical terms a database that is not original cannot be picked up and put into the category of compilations. The two concepts, according to the recent amendments to the UK's Copyright Act, are mutually exclusive. On a few occasions one might be confronted with a database that is not original under the slightly higher EU criterion for originality, but that would meet the originality criterion for compilations. This database will not be protected since a compilation has now been defined in such a way that it excludes databases. The originality criterion is not considered at all at this first stage. Although this is the British approach, similar developments are bound to occur in other EU countries as a result of the introduction of a special regime of protection for databases.

#### **4.1.7 Belgium**

Almost the same restrictive approach as the British one is taken in the Belgian Copyright Act. By definition literary works and the word 'compilation' do

not appear in the Act. They are implied from the wording of 'writings of any kind'.<sup>193</sup> If the notion of 'writing' is approached in its strict sense, compilations of exclusively artistic works do not immediately fall within the 'writings of any kind'. Thus, it remains questionable whether compilations that consist exclusively of artistic works are protected or not under the Belgian Copyright Act.<sup>194</sup>

#### **4.2 The notion of works as components of a compilation**

Two further questions arise in the same context. Does a collection qualify for copyright protection only when it includes copyrightable material or when it also includes some material which is non-copyrightable? Secondly, what if a collection includes works, which are no longer under copyright protection, since their term of protection has expired. Do these works qualify as components of a copyrightable compilation?

These issues were considered in relation to the wording of the Berne Convention. By providing only for collections of literary or artistic works, the Berne Convention was clearly leaving out of the collections' scope of protection, those collections of material which are not capable of attracting copyright.<sup>195</sup> This is only a minimum level of protection though and Member States remain free to offer protection to other types of works as well as to raise the general level of protection. On top of their Berne commitments, they can offer protection to compilations of non-copyrightable material as well. One could take the view that the words 'collections of literary and artistic works' refer back to the copyright acts of the Member States and that only works that qualify for copyright protection are included. This view was put forward in the original proposal for the text of this article of the Convention at the Brussels Conference. The actual wording that it

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<sup>193</sup> Art.8(1) of the Belgian Copyright Act. See also J Corbet, *op. cit.* 116, at 29.

<sup>194</sup> Their qualification, however, as artistic works should not be altogether excluded.

<sup>195</sup> See in this respect the Greek (law 2121/93), German (1965), Indian (1957) and Japanese (1970) copyright laws.

was suggested be inserted in this context in the Berne Convention was «...without prejudice to any copyright which subsists in each of the works» or «...without prejudice to the rights of the author existing in each of the works». That referred specifically to existing copyright in the literary works. That combination could no longer be met if copyright no longer subsisted in the works. The words ‘subsisting’ and ‘existing’ have been deleted from that proposal even if the final text does not explicitly spell out that copyright in these works may have expired.<sup>196</sup> In spite of the remaining uncertainty in the text of the article it must be presumed from this deletion that it is irrelevant whether copyright in the works still exists (or ever existed). The final conclusion must be that literary or artistic works should be seen as literary or artistic works that are in copyright or that have been in copyright for the purposes of article 2(5) of the Berne Convention.

Moreover, in the case where in a compilation consisting of literary or artistic works, other non-copyrightable material, such as data, facts, etc. is also found, the collections would still qualify for copyright protection, to the extent that this other material was ancillary and the literary or artistic works constituting the main content of the collection were selected or<sup>197</sup> had been arranged in such a way that the collection amounted to an intellectual creation.

### **4.3 The bond between literary works, compilations and multimedia works**

#### **4.3.1 Differences between traditional literary works and compilations**

Up to now we have seen that compilations and collections are generally

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<sup>196</sup> Documents 1948, 94-95, 147, 152, 157.

<sup>197</sup> Although the provision of the Berne Convention referring to collections requires ‘selection and arrangement’ of their contents, the generally accepted interpretation is that selection and arrangement do not have to exist cumulatively. This interpretation is also supported by the authoritative French text of the Convention. This text does not provide for ‘et’ but for ‘ou’. The two requirements should therefore be read as alternative requirements.

dealt with as literary works, but that they do not fit in easily with the standard types of literary works. As we mentioned earlier, collections are one of the first examples of the depurification of traditional literary works. It is to those differences that we now return in more detail. The written format is still there but all other aspects are different. The first difference refers to originality. In a normal literary work the content of the work is the main point where originality is required and found. By definition the level of originality of a compilation is not determined with reference to its contents. Any originality refers strictly to the structure and the compiling of their contents. The works compiled retain their primary regime of protection. This is also the reason why many jurisdictions refer to them as derivative works, in other words works deriving from original ones. Their construction depends on the use of pre-existing original works. The task of compiling pre-existing materials is not always an original task. In order to be so it requires creativity. To make it clear that an original structure is required, the Berne Convention found it advisable to make a clear reference to the fact that compilations, in order to qualify for copyright protection, had to constitute ‘intellectual creations’.

The same requirement does not appear with regard to traditional literary works. As Ricketson observes

“this stipulation is necessary in the case of these kinds of borderline works, [but] it hardly needs to be stated in relation to the ‘mainline’ works covered by article 2(1)”.<sup>198</sup>

This bond between literary works and collections became even looser when Member States decided to include collections of data within the scope of protection of collections. This was actually a clear indication that the market reality and the emergence of new intellectual property products was setting its own rules and that Member States had to catch up with the evolution. Copyright was stretched even more. What Ricketson describes as borderline works and all compilations of data,

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<sup>198</sup> S Ricketson, *op. cit.* note 112, at 230.

etc. are surely no longer standard examples of literary works that can be dealt with easily or satisfactorily within the standard literary works rules. If compilations are a case of bastard literary works, the fact that multimedia products are a case of bastard compilations<sup>199</sup> leads by implication to the conclusion that multimedia products have an even looser bond with literary works compared to the bond compilations have with them.

The contribution an author of a compilation is making is the selection, arrangement and editing of the works of others.<sup>200</sup> He does not create anything from scratch in the sense that a writer would, for example, author a novel. For that very reason what an author of a compilation really gains in the end is not the right to the contents of the collection but the rights in the creativity he has exercised in assembling the materials and arranging them. This is also the protection he is afforded in reality. Protection in this sense is a quasi-copyright protection, since the originality and creativity he exercises is quasi-creativity, by necessity limited in scope and one perhaps which only resembles vaguely the creativity exercised by an author of a traditional literary work.

The second difference between a compilation and a traditional literary work is that what is valuable and worth protecting about a compilation is not the content, as is the case with a standard literary work, but the structure, the arrangement and the selection of the content. Similar issues arise in relation to computer programs where the structure plays an important role in cases of non literal copying. The difficulties that one is faced with when applying the substantial copying test for infringement were illustrated graphically by Jacob J in the *Ibcos* case.<sup>201</sup> In this case the judge pointed out that it is not only the 'literal similarities' between two computer programs that have to be taken into account, so as to find out if copying has taken place, but also 'program features' and 'design features'. This is

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<sup>199</sup> See section 4.3.2.

<sup>200</sup> It can also be the compilation of his own works. See art.2(3) of the Berne Convention.

<sup>201</sup> *Ibcos Computers Ltd and another v. Barclays Mercantile Highland Finance Ltd and others* [1994] FSR 275, at 302.



especially so when literal copying on its own does not prove useful or adequate in cases where the computer program at issue was translated into another computer language. In such cases immediate literal copying is not visible and therefore not adequate for establishing a case of infringement when comparing the original to the copied software.<sup>202</sup>

### **4.3.2 Multimedia products and compilations**

#### **4.3.2.1 'Productions'**

One might wonder at this stage, if copyright were stretched to include compilations of materials other than works, whether multimedia products should also form a case meriting a further deviation from traditional copyright law. Indeed the wording of the Berne Convention, when referring to literary and artistic works in its first paragraph of article 2, refers to them as 'productions'.<sup>203</sup> 'Productions' is considered to be a term that is charged with the values of a market economy and which carries commercial connotations. Probably the use of another less market-orientated term would indicate the inclusion of works only within the ambit of literary works. Yet, the word 'production' was not intended to play a central role in the definition of literary works. Creative elements are still required for the emergence of a new work. The definition of 'works' is to be found in the expression of literary and artistic works and not in that of 'production'. The latter is there to indicate that a work has to be first realised and come into existence before it is protected. The procedure of bringing a work into existence and realising it can well be called production. It is suggested here that one should consider its impact on any literary or artistic work to this extent only.

Multimedia products, though products in the same sense, can still be

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<sup>202</sup> See for example *John Richardson Computers Ltd v. Flanders* [1993] FSR 497.

<sup>203</sup> «The expression 'literary and artistic works' shall include every production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression...».

works in so far as they constitute independent creations of the mind and carry the author's personal imprint. The rule nowadays, however, is for multimedia products to be works serving particular commercialised functions. Their commercial function is the prevailing one, and their market success is decisive even for their structure. The form and structure in which they are marketed is dictated less by the judgment of their designer and producer and more by the market economy and the commercial needs. Multimedia products are successful only when they are comprehensive, affordable and easy to use.<sup>204</sup> In this sense multimedia works are conceived, planned and marketed as products in the narrow sense of the word.<sup>205</sup> Collections have been developed in a form that can be included in many national jurisdictions, and lately in all European Union jurisdictions. There are also collections of just data and facts. As such, multimedia works might eventually sit well with the new legislative reality. The fact that multimedia products include pre-existing materials (copyrightable or non-copyrightable), compiled so as to create a new work, means they can occasionally come within the scope of compilations, in so far as the collection of materials is their prevailing characteristic. Certain issues, however, are bound to cause inconsistencies with the initial concept of a traditional compilation.

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<sup>204</sup> «Retailers and distributors of CD-ROM titles recognise the inherent risk of selling titles into an emerging consumer market that wants products that combine the latest technology, design sophistication and ease of use» J Tamer "*The returns of CD-ROM*" in M Radcliffe and W Tanenbaum (eds), Multimedia and the Law 1996. Protecting your clients' interests, Practising Law Institute, 1996, at 23.

<sup>205</sup> Intellectual property law should not in theory examine the end purpose of a producer of an intellectual property product. What is important for intellectual property law is whether the work at issue meets the requirements of a work, set out in the relevant provisions. Yet, at certain times it is in the market context that intellectual property works should be tested and the repercussions of the exclusive rights afforded to them on that market examined.

#### **4.3.2.2 Analogue and digital**

The traditional notion of collections was conceived and drafted to work in an analogue environment. That means that any works within the scope of protection of the collections (which is also the scope of protection of other literary works), have been designed in such a way as to protect the rights of authors of works fixed on hard copies, circulating as such and being copied in an environment which is more or less controllable. Multimedia products, though they eventually appear in hard copy format in certain cases, i.e. CD-ROMs, CD-Is, etc., have long rejected any analogue environment to perform their functions. They are incorporated and operated in a digital environment. That means that their contents, which at first sight are illegible, can be manipulated, copied and transformed more easily.

#### **4.3.2.3 Manipulation of content in multimedia products**

Multimedia products do not even possess the characteristics of a compilation. Traditional compilations are found in hard copy format and are accessed manually. No computer program is to be found in their actual corpus. The selection and arrangement of their contents is the initial and final work of their author-compiler. Their author chooses the material to be included in the compilation from potentially any material in the world. He arranges it and he gives it its single, final and definitive format before marketing it. No possible alterations of his edition by third parties can take place, unless, of course, the author's permission is given. If such alterations occur, the rights of the author of the compilation are infringed. In a multimedia product it is the user who makes the selection and arrangement of the contents of the work by ordering them on his screen. The alterations initiated by the user come within the scope of normal use. If any creativity is involved in the selection and arrangement, it lies with the user. The user is the real compiler of the end result and the one who re-arranges it as

many times as possible. Of course, his selection and arrangement is somehow pre-destined and pre-defined by the prior selection of materials by the producer of the multimedia product and the number of entries available. It is pre-defined to a narrower extent than that of a compilation by reason of the materials being available in the public domain (materials which are accessible by reason of costs, difficulty of tracing them, confidentiality, etc.). The producer of the multimedia work supplies the contents and the tools for their manipulation. The user compiles the content and also interacts with them.

Does this mean that encyclopaedias and anthologies, as the characteristic examples of collections, cannot take the format of a multimedia product? On the contrary, but it is not in their traditional format that they are found in these cases. Digital interactive encyclopaedias and anthologies which are, for example, marketed as CD-ROMs or DVDs, distributed or communicated on the Internet, do not have much in common with traditional anthologies and encyclopaedias marketed as books.

#### **4.3.2.4 Integration of works in multimedia products**

Compilations traditionally incorporate one or two forms of expression. Usually the works incorporated are text, or text and images. Although these works are put in the form of a book in the pre-multimedia tradition, they still do not lose their original format. In other words text remains text, and an image remains an image. A particular characteristic of multimedia products is that they incorporate a vast number of different kinds of works and expressions, which, because of their digitisation, are no longer found in their original format after their integration into the multimedia product. A photograph, a painting, a sculpture or a film are all images, which take the same format and which are made up of binary code from information inserted in the authoring computer program as 0s and 1s. When all this information is integrated, it is one work only which is visible and comprehensive; the multimedia work as a whole. This work has taken a new single format, separate

and distinguishable from the one its combining elements had. That format is digital.

#### **4.3.2.5 Redefinition of the written format of a work**

Since elements of a multimedia product are inserted into it as binary code, we may wonder whether they meet the requirements of being expressed in writing. Normally the requirement that the work has to be expressed in writing refers to the ordinary, standard way in which the work is expressed. This is how for example a written text is distinguished from an artistic work. It does not stop anyone though from describing the artistic work in writing in such a way that a reasonably clear image is conveyed to the reader and in such a way that the reader could eventually attempt to recreate the artistic work on the basis of the description, however difficult or sheer impossible such a recreation may be. The conclusion must therefore be that a sequence of binary code that is the expression of an artistic work should not be treated as the expression in writing of the work itself, making that work a literary work. It should rather be treated as analogous to a translation of a work. This means that the argument that a multimedia work, which includes various types of works, becomes a literary work because it is expressed in binary code, cannot be accepted. Many of the works included will not originally have been expressed in writing. One could, of course, add the fact that in the near future more and more works, for example photographs and films, will be created in a digital format. In our example this will happen through the use of digital cameras. That could lead to the argument that these works should be treated as literary works because in their original format they were expressed in writing.

It is submitted that this argument cannot be accepted either. The primary aim of a photograph, irrespective of the way in which it is technically produced, is still to convey an image rather than a text. The impact of this becomes obvious if one takes a standard infringement case as an example. If it is alleged that a digitally produced photograph has been copied, it is highly unlikely that the court will first

of all compare the two sets of binary codes to determine whether a substantial part of the original photograph has been copied. The court will rather look at the two photographs in the format in which they are presented to the general public to decide whether a substantial part has been copied. For those works that are perceptible in their conventional format, it would be counter-productive to argue that from a purely dogmatic legalistic point of view one should turn to the written format in binary code, simply because it now exists. This approach may be required for non-perceptible items, such as computer programs,<sup>206</sup> but it should be restricted to these cases. Binary code may be a form of writing, but it is an incomprehensible form of writing, which means that it cannot fulfil the clarifying role that was originally attributed to writing in copyright legislation. Originally, it was much easier to define the exact scope of the work if the work was expressed in writing. It was also easier to distinguish written works from other types of works, such as artistic or musical works. All this presupposes the use of the written version of a language that is comprehensible to at least part of the population. Binary code cannot fulfil that purpose and should therefore be distinguished even from the more sophisticated computer languages and from exotic languages.<sup>207</sup>

#### **4.3.2.6 Functions of traditional compilations and multimedia works**

A conventional compilation serves a role which is different from that of a multimedia product. The elements of a compilation are put together to provide some information in a particular area. The value of the compilation consists of bringing those elements together and editing them in that particular way. Although a multimedia product also brings some elements together (fewer works and more data), it does not aim at a particular selection and arrangement. It aims only at

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<sup>206</sup> A Strowel and J-P Triaille, *op. cit.* note 24, at 356. Still computer programs are not compared in a binary code format, but rather as their data are expressed in a high-level computer language, such as Combol, Pascal, etc.

<sup>207</sup> *Ibidem.*

offering the opportunity to the eventual user of making various possible uses of them. A conventional compilation is valuable because of its definite format, and because of that format it is also afforded copyright protection, whereas a multimedia product is valuable because it has no definite format. The value of the former in descriptive terms could be compared to the value of the sum of its parts, whilst the value of a multimedia product consists of the value of the new works that can be initiated by the user using the sum of its parts.<sup>208</sup>

#### 4.3.2.7 The limits of interactivity

In conclusion the main argument in favour of defining multimedia works as compilations for the purposes of copyright is the fact that interactivity, which is one of the main characteristic of multimedia works, can be seen as a further development of the assembling, cutting and pasting operation of a compilation. This argument, although it carries substantial weight, cannot be conclusive. A multimedia work takes this point much further, because not only are the works not independently accessible, but they are fragmented and reintegrated to such an extent, that any result is necessarily composed of a vast number of these pieces the origin of which can no longer be established.<sup>209</sup>

The main argument against multimedia works being seen as compilations is

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<sup>208</sup> See B Wittweiler, *op. cit.* note 32, at 9, where he argues that under Swiss law at least some multimedia products may be classified as compilations. See also, in the context of German law, F Koch, "Software – Urheberrechtsschutz für Multimedia – Anwendungen" [1995] GRUR 459, at 463.

<sup>209</sup> The fact that the various components of a multimedia work can no longer be distinguished easily is not only due to the fact that they are digitised (for example a photograph, a painting or an engraving are all images for the purposes of a multimedia product, and they can only be distinguished from sounds or text), but also because the volume of data they incorporate is vastly larger than that incorporated in a compilation. As we described in the first chapter of this thesis such a quantitative differentiation has necessarily qualitative effects as well. A multimedia product cannot be approached as a mere collection of a limited number of works. In addition to that integration plays also a very important role.

that the definition of a compilation is closely associated with that of a literary work. In terms of components, a multimedia work should be composed of literary works to meet the criterion that it has to be in writing to qualify as a compilation. Whilst this may not cause problems for a limited number of rather primitive multimedia works, the opposite is true for the vast majority of more recent multimedia works that are wider in scope in that they necessarily include various other types of works on top of any literary work or works. The final outcome of this analysis must be that multimedia works cannot simply be considered as examples or a subcategory of compilations. The disadvantage in relation to compilations can at first sight be seen as an advantage in relation to the classification of multimedia products as databases. Indeed, at first sight, databases form the next obvious candidate, since it could be said that most multimedia works include some form of a database and a software tool to work with that database. It is to the relationship between multimedia products and databases that we now turn. This analysis will reveal that a superficial similarity may not render the database classification as viable as it may seem.



## CHAPTER V

### DATABASES

#### 5.1 The database framework

When the EU database Directive was enacted in early 1996,<sup>210</sup> there was much discussion about it being at the same time a multimedia Directive. Multimedia products at that stage seemed to be blocked in many countries from coming under the protection of compilations on the basis that, although they were considered to form some sort of compilation, they did not contain only works (as originally required in the Berne Convention and consequently in the laws of many of its Member States), but other materials as well. In fact most of their contents were data, information which would not qualify under any regime as material capable of attracting copyright protection.<sup>211</sup> The second problem multimedia products were presenting was the fact they were not coming anywhere near to the conventional book-format of manually accessible compilations. Multimedia products, if held to be compilations, could only be digital ones. It was not clear in the Berne Convention and the laws of many countries, which did not expressly provide for the protection of databases, that traditional compilations could be legitimately extended to cover digital or electronic compilations. Since by the enactment of legislation concerning the protection of databases at Community level these two hurdles disappeared, there were many commentators who stood by the opinion that any distinction between databases and multimedia products would be both unwise and impractical. This would be so especially in a period where the

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<sup>210</sup> EU database Directive, *op. cit.* note 47.

<sup>211</sup> We should, of course, take into account the variations between the different jurisdictions. In the common-law jurisdictions, as we explained, is more likely for functional and utilitarian material to attract copyright protection. See the TV programme listings in *Magill*, *op. cit.* note 143.

protection for both was seen to be at the heart of developments in the world-wide new technologies market.

The EU legislation was not the first legislation to provide copyright protection for databases. Apart from many national legislations, the TRIPs Agreement did so in its article 10.2. WIPO Copyright Treaty at a later stage provided for the same kind of protection:

“Compilations of data or other material, in any form, which by reason of the selection or arrangement of their contents constitute intellectual creations, are protected as such”.<sup>212</sup>

Both the WIPO Copyright Treaty and the TRIPs Agreement provide copyright protection for databases by reason of the selection and arrangement of their contents. However, no precise definition of databases is given. The first complete definition found in a legal instrument is contained in the EU Directive. According to its article 1.2 a database is held to be

“a collection of independent works, data or other materials arranged in a systematic or methodical way and individually accessible by electronic or other means”.

A first issue which is clarified right from the start is that the computer programs used in the making or operation of databases are not to be included in the scope of protection of the database. Any computer programs qualifying for copyright protection are to be dealt with under the software Directive.<sup>213</sup>

According to the EU Directive’s wording, both manual and electronic compilations are covered. Electronic or digital compilations are those which are arranged, stored and accessed by electronic, electromagnetic, electro-optical or analogous processes. Not all stages of constructing a database have to undergo the

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<sup>212</sup> WIPO Copyright Treaty (hereinafter WCT), signed in Geneva on 20 December 1996, art.5.

<sup>213</sup> EC software Directive, *op. cit.* note 95.

aforementioned processes though. It is submitted that it is the final one which is decisive. Thus, even if a database is manually arranged, stored electronically with the aid of a scanner and accessed electronically by means of a computer program, it is still considered to be an electronic database.

The contents of a database can be wide-ranging. Any literary work or text of any kind, any artistic or dramatic work as well as any kind of image, diagram, figure or number, any kind of musical work or equally any sound can qualify as contents of a database.<sup>214</sup> There is no limit to the number of the works or materials included but some limits as to the type of content exist.<sup>215</sup> There is no requirement about the function these materials are meant to serve in the context of a database and no specific type of combination of the materials required. *In toto* the scope of the contents of a database is very wide. It is perhaps obvious to say that the materials included in a database do not have to be capable of being put in a written format, as was previously required in the UK's Copyright Act in relation to compilations; firstly, because the Directive expressly provides for artistic works as well and secondly because the digitisation of the materials inevitably transforms any kind of information into one and the same digital format. Yet, three limitations exist. First of all the materials, which form the contents of a database, have to be independent. The two other requirements are that these materials have to be individually accessible and that the contents of the database have to be arranged in a systematic or methodical way. We will now turn to the detailed examination of each of these requirements.

### 5.1.1 'Independent' contents

That the contents of a database have to be independent seems to be a simple statement. What is meant by this requirement is not defined though. If we

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<sup>214</sup> See Recital 17 of the EU database Directive, *op. cit.* note 47.

<sup>215</sup> Three-dimensional objects and the mere storage of quantities of works or materials in electronic form are excluded. See the Explanatory Memorandum, COM (93) 464 final-SYN 393, at 41.

combine this requirement with what we usually consider as being the classic example of a database, we could surmise that by 'independent' the drafters of the Directive meant materials which can stand on their own, whether they are extracts or whole works. It is reasonable to assume that by 'database' the average person understands a telephone or street directory, or some other kind of catalogue containing various related entries, each with a similar value in relation to the area covered. Independent materials from such projects as these can only be materials which are valuable on their own, because of the information they carry; information which is considered in some sense to be 'complete' information. For example, the information an address gives to its reader can be considered to be a complete and independent piece of information. Its value is enhanced in the context of a database because it brings various pieces of information together and combines them so as to give a global and comprehensive image in relation to a particular area or in relation to a particular subject.

### **5.1.2 'Individually accessible' contents**

The requirement for the materials included in a database to be independent forms only the first test for a project to qualify as a database. The second test, which seems to be linked to the first one, is that the materials have to be 'individually accessible'. The fact that these two tests are linked or closely related to each other derives from the fact that an element that is independent in a database, can also perform a useful and complete function when it is retrieved on its own. In order for it to be capable of being retrieved on its own, it has to be individually accessible.

The requirement that the materials that are included in a database have to be capable of being accessed individually was put there to exclude any works which serve a different purpose and therefore do not present this option. For that reason any collective works, which do not aim at the collection of data, but at a unified literary, artistic or dramatic result, clearly cannot qualify as databases.

Films are a characteristic example of such a case. Although a film consists of separate frames carried on pellicule, these frames are meaningful only when seen as a series of moving images and not separate from one another. In the same sense any recording, or any other audiovisual or cinematographic work, would fall foul of the requirements of the database Directive.<sup>216</sup> Computer programs and video games are further examples.<sup>217</sup> The elements incorporated in them make sense and perform their actual intellectual and commercial functions only when seen in a sequence. They are clearly works not capable of being individually accessed. However, a collection of computer programs, of video games or of films is always possible and would fall within the definition of a database.

If the requirement for the elements of a database to be individually accessible did not exist, the wide-ranging definition with regard to the contents of a database would bring within its scope almost every possible kind of work. The result would be that overlapping protection for certain works would be created. Consequently a second layer of copyright protection would exist, affording more exclusive rights to more people.<sup>218</sup> Apart from the fact that the general copyright system would become confusing, there would no longer be a reason for particular definitions of any specific types of intellectual property products. If, for example, a work could qualify for database protection, there would be no reason to check whether the same work came within the definition of a film as well. The provisions on databases could serve the database author well enough on their own without the need for recourse to any other intellectual property legislation.

This would destabilise the whole copyright system, especially in common-law countries, where every intellectual property product has to be put neatly into its correct category, if it is to qualify for copyright protection. Any interchangeability between the various regimes of protection would lead to abuse of rights,

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<sup>216</sup> *Ibidem*.

<sup>217</sup> L Kaye, "The proposed EU Directive for the legal protection of databases: a cornerstone of the information society?" [1995] 12 EIPR 583.

<sup>218</sup> It goes without saying that the presence of more layers of protection necessarily renders the commercial exploitation of the work more difficult, since more rights will need to be cleared.

circumvention of obligations and in the paralysis of certain provisions. What would be the purpose, for example of offering a database seventy-year copyright protection, if the same database could also qualify for protection as a film, and extend its seventy-year term of protection by starting to calculate it from the death of the last co-author of the film?

One possible solution could be to abandon the different categories of works altogether in the light of their transformation into a single digitised format,<sup>219</sup> and provide for one kind of copyright protection only, applicable to all kinds of works.<sup>220</sup> That could theoretically facilitate the use of copyright and prevent possible abuses in the area. However, it would call for a radical reconstruction of the whole copyright system, which would at best disregard the differences in nature between the various intellectual property works. A level of detail would thus be lost in such a system, because these differences in nature lead to differences in the precise format of protection.

Instead of banning the various categories of works altogether, another idea, perhaps, would be to avoid attempts at defining the exact scope of these categories. The EU software Directive for example avoided any definition with regard to computer programs, out of fear that any definition was bound to be outdated sooner or later by reason of the rapid technological developments. Another example is the recent Belgian Copyright Act, which does not define the various categories of works, but nevertheless provides for different regimes of protection in relation to different categories of works by referring to them by their generic terms, e.g. literary works, databases, films, computer programs, etc. Such a regime of protection carries with it the danger in the future of losing track of the precise scope of the works it puts into the different categories. Although it is not difficult now to define with a great degree of certainty what a film is, and even

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<sup>219</sup> This argument disregards the fact that a work exists in an analogue format before it is digitised. That analogue format can be very different depending on the type of work. Its subsequent digitisation cannot undo that original difference.

<sup>220</sup> See A Christie, "*Reconceptualising copyright in the digital era*" [1995] 11 EIPR 522, at 525.

easier to recognise one when you see it, this will not necessarily be the case in the future. Different products will be capable of falling into different categories, and there will be no precise definition to prevent them from doing so. That will result in undesirable overlaps between the different regimes of protection.

In conclusion, two feasible options remain. However, whether one opts for various categories of works, each linked to a specific bundle of rights and exceptions, or whether one opts for a single category of works, with a single bundle of rights and exceptions, problems remain. Neither system produces an ideal solution.

### **5.1.3 Systematic and methodical arrangement of contents**

The third and final test for a work to qualify as a database is whether its contents are arranged in a systematic or methodical way. The mere storage of quantities of works or materials in electronic form will fall foul of such a requirement.<sup>221</sup> Yet, it will only be rare or remote cases where the contents of a database will not be subject to some kind of method or arrangement.<sup>222</sup> In most cases this method or arrangement is also the one that enables the contents to be individually accessible with the help of a software tool. Yet, the kind of method or arrangement required according to the text of the Directive, is not specified. What is likely is that any arrangement of the contents of a database in most cases will not be the result of the individual judgment of its author. More and more databases are the result of planning on the part of their developers, who, in order to realise them, have to make them subject to certain technical rules, dictated by their making and operating software. Thus, part of the planning of a database is initiated or semi-initiated and realised by computers. Any arrangement would look even more absurd, if one applied it in relation to the storage of the contents in the memory of

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<sup>221</sup> See the Explanatory Memorandum to the EU database Directive, *op. cit.* note 215, at 41.

<sup>222</sup> Pure random arrangement of the contents of a database can eventually be held as a kind of structure as well.

some computer in binary code.<sup>223</sup> This requirement, of course, is banned by Recital 21 of the Directive. What is not specified, however, is whether any method of arranging the materials will be judged before or after the materials have been inserted into the memory of the computer. If it is the latter, what is the role, if any, of the user of the database who initiates the various selections and arrangements of this material on his screen? Are these selections and arrangements, relating to the presentation of the materials on the screen of the computer, to be taken into account? Is the user of such a product to be afforded any rights, at least to works that give him a wider scope of discretion and creativity, as is the case with interactive multimedia products?

Once these three requirements are met (independent materials methodically or systematically selected or arranged and capable of being accessed individually), a work can qualify as a database. No express, or even indicative examples of such cases are given in the Directive. Yet, a number of works which do not meet the above tests are excluded.<sup>224</sup> Amongst these works one work, which does not immediately seem to fall foul of the aforementioned requirements, but which is however, excluded from the scope of the Directive, is an ordinary audio CD. According to Recital 19 of the Directive,

“the compilation of several recordings of musical performances on a CD does not come within the scope of this Directive, both because as a compilation, it does not meet the conditions for copyright protection and because it does not present a substantial enough investment to be eligible under the *sui generis* right”.<sup>225</sup>

These requirements can refer to two points only; either to the originality requirement regarding the selection and arrangement of the contents of a database,

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<sup>223</sup> Recital 21 of the Directive provides that it is not necessary for the contents of a database to have been physically stored in an organised manner.

<sup>224</sup> See above the examples in section 5.1.2.

<sup>225</sup> EU database Directive, *op. cit.* note 47.



or to the elements of the definition of a database. The former point has to be examined on a case by case basis and no theoretical conclusion is to be drawn in advance. In relation to the latter there is nothing to indicate that an ordinary CD does not include independent works, which have been arranged subject to a particular method or system, and which can be retrieved independently.<sup>226</sup> However, the inclusion of CDs in the scope of the Directive would unnecessarily extend a protection already afforded to sound recordings in the national copyright laws as neighbouring, related rights or copyright.<sup>227</sup> Yet, it is not clear whether the exclusion of CDs implies the exclusion of phonograms in general. This might eventually cause problems in case of databases seeking to provide information in the area of music. CD-ROMs and CD-Is, however, remain expressly within the Directive's scope of protection.<sup>228</sup>

## 5.2 Beyond copyright

The information, which constitutes the contents of a database, whilst independent, is not separately or additionally protected by the copyright which is afforded to the database itself. This is so irrespective of whether the contents themselves are within copyright protection or not, or within any other kind of protection, e.g. trade marks, trade secrets, know-how, confidentiality, etc. Since databases are considered to be, in fact, an extension of traditional compilations, and since their value consists of the assemblage of the various materials, copyright protection can be afforded to them only in relation to the selection and arrangement of their materials.<sup>229</sup> This selection and arrangement has to be the author's own

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<sup>226</sup> Doubts remain in relation to the legal binding force of a Recital in a Directive or any other international, national or regional instrument. However, the interpreting impact of a Recital to the Directive seems to play a rather significant role.

<sup>227</sup> See CDPA 1988.

<sup>228</sup> See Recital 22 of the EU database Directive, *op. cit.* note 47.

<sup>229</sup> The copyright protection afforded to the database has to be without prejudice to any rights subsisting in its contents. See art.3.2.

intellectual creation,<sup>230</sup> according to the wording of the database Directive, which is the same in all EU Directives.<sup>231</sup> This is the yardstick against which databases are measured in order to pass the hurdle of originality, and to qualify as original databases within the requirements of article 3.1.

The originality criterion for a database to constitute its author's own intellectual creation, though lower than the continental one (which requires creativity and personal involvement to a higher degree), is still higher than the common-law one (which requires skill and labour only). That means that many databases, which previously qualified for copyright protection under the common-law system, will no longer be able to do so. There are however databases which remain outside the scope of copyright, even though a substantial amount of skill and labour has been invested in them, not to mention a substantial financial investment in most cases. These databases are in need of protection, albeit to a lesser degree, and that need for protection had to be addressed.

It was essentially the aforementioned need which dictated the introduction of a *sui generis* regime of protection in relation to the contents of a database. That need is created irrespective of the fact that the contents of a database are themselves already protected by copyright or by some other right. The role of their initial copyright is to stop them from being copied without the authorisation of their rightholder. The role of the person who has incorporated those contents into a database, after having acquired the authorisation of their rightholder, is insignificant or non-existent in relation to their potential inclusion in a new database. That results in all the investment in time, money, effort and energy put into the construction of the database remaining unprotected, or partially protected through unfair competition law in those countries which provide such a law.

It is exactly the solution to this problem that the *sui generis* right, which was introduced by the database Directive, offers. The *sui generis* right is granted to

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<sup>230</sup> Art.3.1 of the database Directive, *op. cit.* note 47.

<sup>231</sup> See i.e. the software Directive, *op. cit.* note 95, and the Council Directive (93/98/EEC) harmonising the term of protection of copyright and certain related rights, [1993] OJ L290/9.

the maker of the database, so as to allow him to prevent third parties from extracting<sup>232</sup> and/or re-utilising<sup>233</sup> the whole or substantial parts of his work without his authorisation. Yet, this right is subject to one prerequisite. The making of a database has to involve a qualitatively and/or quantitatively substantial investment in either the obtaining, verification or presentation of its contents.<sup>234</sup> This requirement constitutes the ‘raison d’être’ of the *sui generis* right, which in fact is an unfair competition rule conceptualised and transformed into a positive intellectual property right.

It is essential to note three things so far. First, the *sui generis* right is a right afforded to the contents of a database and not to the database itself (meaning the selection, arrangement or other structure of its materials). Second, granting of a *sui generis* right instead of copyright to the maker of the database, removes the potential danger of having two copyrights in the same material owned by different parties; one owned by the author of the original work or his successors in title, and the other owned by the maker of the database, in which the work is included. It could even be argued that the *sui generis* right itself has the potential to create ownership conflicts with the owner of the copyright in the database. Lastly, we have to bear in mind that the *sui generis* right is a ‘passe-par-tout’ right, which is afforded to the contents of a database, irrespective of the fact that they themselves are protected by copyright or some other right, or irrespective of the fact that they form part of a database which is protected by copyright. The *sui generis* right is an additional layer of protection for any kind of independent materials of a database, which form the contents of a copyrightable or non-copyrightable database.

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<sup>232</sup> Meaning according to article 2(a) of the database Directive the «permanent or temporary transfer of all or a substantial part of the contents of a database to another medium by any means or in any form».

<sup>233</sup> Meaning according to article 2(b) of the Directive the «any form of making available to the public all or a substantial part of the contents of a database by the distribution of copies, by renting, by on-line or other forms of transmission».

<sup>234</sup> Article 7.1 of the database Directive, *op. cit.* note 47.

### 5.3 Multimedia products as databases

Many of the elements contained in the definition of a database are not easily transposed to a multimedia context.<sup>235</sup> We will consider these points in more detail in the next pages. Suffice it to say here that the requirement of systematic and methodical arrangement of materials does not create problems in relation to multimedia products. In the same way as a database, a multimedia product contains many materials and these materials are always arranged, one way or the other, in a systematic or methodical manner.

#### 5.3.1 Interactivity versus 'individually accessible' contents

One could argue at this point that Recital 22 of the Directive, which expressly provides for the protection of CD-ROMs and CD-Is in relation to electronic databases, may actually refer to multimedia products as well, or at least refers to them in so far as interactive databases are held to be multimedia products. With regard to the definition that we gave of multimedia products in the first chapter of this thesis, we could argue that it is broad enough to include interactive databases as well. Still, more than one expression is combined on a single medium, either non-linear or linear, in a digitised form. Even if the database at issue contains only text accessed through hypertext links, the presence of a computer program, which allows for the retrieval of those texts and for the interactive

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<sup>235</sup> Contra U Loewenheim, « *Urheberrechtliche Probleme bei Multimediaanwendungen* » [1996] GRUR 830, at 832, who argues that in many cases a multimedia product can be classified as a database for copyright purposes. The second Sirinelli Report (« *Le régime juridique et la gestion des oeuvres multimédias* », CERDI (Centre d'Etudes et de Recherche en Droit de l'Informatique de l'Université Paris Sud), 1996) presents a more balanced view. It is argued there that many multimedia works will not meet the criteria of the EU database Directive and that it is not desirable to protect certain multimedia works in one way and others in another way. See also F Genton, « *Multimedia im französischen Urheberrecht : der zweite Sirinelli Bericht* » [1996] GRUR Int. 693, at 695.

dialogue between the user and the information included in the database, allows the database at issue to meet the requirement of combining more than one element of different expressions.

If we now look at the definition of a database, we will arrive at similar conclusions, though from the other side of the spectrum. The database definition allows for the simultaneous existence of more than one expression, and dictates the use of a computer program. However, there is no mention of interactivity. That does not seem to create any problems since it is not true with databases that by not expressly mentioning something, we imply that must be excluded. Interactivity sits perfectly well with databases. It does not add to or transform any of their essential characteristics. On the contrary, it makes the requirement of 'individual accession' of its contents easier and more commercial. On top of that some could also argue that interactivity is a feature attached to the computer program that runs the database, and that it is not to be judged under the definition of a database in the first place. Since interactivity substantially affects the image, nature and function of the whole multimedia product, we have to admit that, at this point at least, distinguishing databases from their operating software tool might make sense.<sup>236</sup>

Yet, not all multimedia products are databases in this sense. The modern multimedia applications do not aim to collect pieces of information, which the user can simply track down and access individually. Nowadays multimedia products are more than that. If we look into the components of a modern multimedia product and those of a database, we will probably see that both databases and multimedia include a computer program to operate them. They both contain a large number of different kinds of works and expressions in some kind of systematic or methodical arrangement. In the case of a database however some things remain out of the scope of qualifying contents. For example, three-dimensional objects are not included. Some, of course, would regard this exception as insignificant compared to the bulk of works qualifying but in the case of multimedia this is not so. If we admit that multimedia products will very soon move into the virtual reality world,

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<sup>236</sup> This issue will be discussed in chapter VII on computer programs.

where three-dimensional objects are more common, even if as will be seen later there is at least an issue as to whether all virtual works are really three-dimensional, excluding them is in fact putting a substantial obstacle in the way of their evolution. Of course, the exclusion of three-dimensional objects is not incorporated as such into the actual provisions of the database Directive. It is only found in the guidelines offered in its Explanatory Memorandum.<sup>237</sup> This Memorandum has by no means the same value as an express provision. It can only be interpreted with regard to the historical and social environment present at the stage of drafting the legislation to which it refers. That implies, of course, that it would not be illegal in the future if three-dimensional objects were found by a national judge to qualify as contents in a database. In reality, of course, most of the three-dimensional works that will be included in a multimedia work will in reality be represented in a two-dimensional format that creates a three-dimensional impression. For these works the problem does not arise.

Apart from the computer program operating the work (which is so for both databases and multimedia products), and the arrangement of almost the same scope of contents in a systematic or methodical way (as the law for databases requires), multimedia products seem to distinguish themselves when it comes to the requirement for their contents to be 'individually accessible'.<sup>238</sup> Two options are possible in relation to a multimedia product. The first one is where the contents of a multimedia product are both individually accessible and accessible in conjunction with one another, depending on the command the user of a database enters into the system. The second option is where the contents of a multimedia

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<sup>237</sup> Explanatory Memorandum, *op. cit.* note 215, at 41.

<sup>238</sup> The exclusion of films from the scope of the database Directive also hints at the fact that the works in a database must be 'independent' from one another. This may not create problems in relation to encyclopaedistyle multimedia works, but many multimedia works unfold similarly to a film. The components of these latter works are surely not independent from each other. Beutler, « *The Protection of multimedia products through the European Community's Directive on the legal protection of databases* » [1996] 8 ENT.L.R 317, at 323-324) argues therefore that this another reason not to treat multimedia works as databases.

product have been integrated into one another to such an extent that no individual access to them is possible. The question arising here is whether these multimedia products can still come under the protective umbrella of databases.

### **5.3.2 Multimedia products containing ‘individually accessible’ contents or contents which are both ‘individually accessible’ and capable of being retrieved conjunctively**

We have to look separately at each of the two possible cases. With regard to the first one, where the contents of a multimedia product are both individually accessible and accessible in conjunction with each other, part of it, relating to the entries which are individually accessible, can qualify as a database. The problem is, however, that it is not in practice feasible or advisable to protect only a part of a work, as would be the case here with the multimedia product. One of the possible protections has to take precedence. The question is «which one»? In a case where all the contents (or most of them) of a multimedia product are individually accessible, undoubtedly, that product qualifies as a database. The fact that the same contents can also be viewed in conjunction with each other should not normally create a problem. In this sense the multimedia product could qualify as a database.

In addition, the protection of a multimedia product as a database also presents the advantage that the contents of the former, by analogy with the latter, will also be protected when they are not selected or arranged in an original way. This protection will be afforded to them by reason of the *sui generis* right, if substantial investment in their collection, verification or presentation is found to have taken place on the part of the developer of the multimedia product. The mere storage, of course, of quantities of works or materials in electronic form will not qualify for copyright protection nor for *sui generis* protection.<sup>239</sup> Since the cases where such an investment will not exist will be rare, and since multimedia products do not necessarily always involve an original structure (selection and/or

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<sup>239</sup> See the Explanatory Memorandum to the Directive, *op. cit.* note 215, at 41.

arrangement) in relation to their contents, the *sui generis* protection in relation to the latter is both desirable and commercially advantageous.

Moreover, *sui generis* protection seems at first sight capable of closing gaps in the protection of multimedia products, analogous to those faced by databases some time ago. Although an additional *sui generis* protection of the contents of a multimedia product or at least the existence of a *sui generis* protection for just the contents of a multimedia product is good, it does not go far enough. This is because a multimedia product is more than the collection of its contents. The protection of the original structure of its contents by copyright and the protection of the assemblage of those contents together by the *sui generis* right fails to encompass the whole scope of a multimedia product. Mathematically, it only encompasses two thirds of it, which in fact constitutes only the database that a multimedia product includes as part of its functions. Yet, as we mentioned earlier, the multimedia product is more than just a database. It is a new creation,<sup>240</sup> the functions of which share few of the functions of a database. The protection of only parts of it disregards the nature of the multimedia product and disregards its arguably different needs as a totally new product.

In order to represent a multimedia product graphically, we could present it as a circle. One third of the circle will be occupied by the computer program and the operating materials of the product. The second third will be occupied by the database contained in the multimedia product. The final third will be occupied by the new creation, which allows for the contents to be viewed in conjunction with each other. It is this final third which outstrips the concept of a database. Here we can only refer to a new creation and this new creation, though it encompasses a database, is the multimedia product.

Exceptionally, very simple or should one say simplistic multimedia products may present a different picture. If there is no real added value in terms of original work, and if the interactivity element is contained solely in the software, it

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<sup>240</sup> The additional value of this creation was made possible by the software (tools) that form part of the multimedia product.



might be argued that one is really confronted with a combination of a database and a computer program. In this exceptional scenario, where there is no full integration of the contents and where in combination with the interactivity this does not lead to the addition of another layer of added value, the resulting multimedia product could be protected as a database if one keeps in mind that the database model also includes separate protection for the computer software.<sup>241</sup>

### 5.3.3 Conjunctively retrieved contents in multimedia products

The second case is where a multimedia product does not contain a database at all, because its contents can only be accessed in conjunction with each other. The application of the protection of databases in a multimedia product is not possible, since the database Directive specifically requires works to be individually accessible. In such cases we have to look for a regime of protection, the purpose of which is not the mere collection of materials, their systematic editing and their individual access. What is required is protection which covers the collection of materials and their systematic editing, so as to produce a literary, artistic, or other outcome, which shows its value only when accessed as a whole, or at least as a sequence of some of its contents. This is where the emphasis is shifting: away from the collection of existing materials and towards the creation of a new integrated work. The new work has a substantial added value superseding that of the sum of its parts and deserving protection for that reason,<sup>242</sup> rather than simply for the

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<sup>241</sup> For a favourable view on the database qualification see A Wiebe and D Funkat, « *Multimedia-Anwendungen als Urheberrechtlicher Schutzgegenstand* » (1998) 2 *Multimedia und Recht* 69.

<sup>242</sup> This added value is partly due to the interactivity of the multimedia work. As T Feldman points out «there is really little new in the notion of interactivity in electronic media. From the earliest times, electronic databases have been accessed by means of search and retrieval software. The design of the software coupled with the internal structuring of the database, define the interactions users can have with the database. In other words, interactivity is really just another word for the ways in which a user can search and browse through an electronic database, the process being more or less constrained by the control software. [...] The real difference in designing interactivity for

structured collection of materials. This is something which is rather different from the normal concept of a database.<sup>243</sup>

Alternatively 'individually accessible' could in relation to multimedia products also mean that the work or component as such appears or can be made to appear independently on screen. That requirement can be met even if at the same time some other item appears too. Examples could be background pictures that go with text, or sound that is combined with images. In this sense a vast number of multimedia works could be taken to meet the database criteria. This interpretation bends the rules on databases to a great extent, and is clearly motivated by an overriding desire to find an adequate regime of protection for multimedia. Those who advocate it see the investment in a multimedia work (that uses other original works as components) as the essential point.<sup>244</sup> The database model has that kind of protection as its essential feature and is therefore a suitable model. In reality this is not what 'individually accessible' is supposed to mean. The user should be able to lift a single item out of a compilation of data in isolation, otherwise almost anything could potentially be seen as a database.<sup>245</sup> A multimedia work does not make that possible. Rather it offers combinations and integrated versions of bits

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multimedia lies in multimedia's *added richness and complexity*. To design a means of navigating effectively amongst thousands of images, video sequences, sound, text and numerics, all seamlessly combined as a single information resource, is a challenging problem and one that lies at the heart of successful multimedia applications», *op. cit.* note 14, at 8-9 (emphasis added).

<sup>243</sup> Perhaps this type of multimedia product has more in common with a film.

<sup>244</sup> Some have argued in this respect that the multimedia model is primarily suited for a collection of data and that it is less suited for a collection of original works. That objection must also play a part here since most multimedia works will be composed of original works rather than of data. See T Desurmont, « *L'exercice des droits en ce qui concerne les 'productions multimédias'* », in WIPO international forum on the exercise and management of copyright and neighbouring rights in the face of the challenges of digital technology, Sevilla 1997, 169, at 178 ; Sirinelli Report, *op. cit.* note 172, at 58-59.

<sup>245</sup> Such a wide application of the concept of a database was clearly not the intention of the drafters of the database Directive. They saw the individually accessible requirement as an essential tool to block an unduly wide application of the Directive.

and pieces of elements that are contained in it. It tries to offer added value on top of that of the single components.<sup>246</sup>

### 5.3.4 The compilation alternative

If databases are to be abandoned (wholly or partly) as a possible or as the only possible regime of protection for multimedia products, the first obvious alternative, which comes to mind, is compilations. A compilation may in certain cases, where this is provided by the law of a state, contain materials other than works. These materials are not necessarily capable of being put into a written format and do not have to be individually accessible. This addresses the difficulty raised in the previous paragraph in respect of databases. In that sense at least, certain multimedia products might have more in common with the concept of a compilation. However, as we explained in the chapter on compilations this is not entirely true since a compilation puts the emphasis of the protection it offers on the stable selection and arrangement of existing materials, whilst the multimedia work is in need of protection for the new work that is created and that corresponds better to the content rather than the structure.<sup>247</sup> A study by the Max-Planck-Institut demonstrated that both compilations and databases suffer from the same defect, when they are drafted in to protect multimedia products. They focus on the selection and juxtaposition of individual elements. A multimedia product focuses on the integration of these individual elements into something 'extra' that gives added value to the product. This means that the compilation model is as little

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<sup>246</sup> M Bullinger and E-J Mestmäcker, "*Multimedien Dienste – Aufgabe und Zuständigkeit von Bund und Ländern – Rechtsgutachten*", Opinion prepared for the Bundesministerium für Bildung, Wissenschaft, Forschung und Technologie, 1996, available on-line. See also J Bizer, V Hammer, U Pordesch and A Roßnagel, "*Entwurf gesetzlicher Regelungen zum Datenschutz und zur Rechtssicherheit in Online-Multimedia-Anwendungen*", Opinion prepared for the Bundesministerium für Bildung, Wissenschaft, Forschung und Technologie, 1996, available on-line.

<sup>247</sup> See chapter IV on compilations.

suited to multimedia products as the database model.<sup>248</sup> In addition to that compilations present all the problems that are associated with the requirement of a written format and with the exclusion of certain types of works from the scope of compilations, at least in certain jurisdictions. This means that compilations cannot be a universally accepted alternative. A last important point is the fact that multimedia products are associated with the concept of interactivity. This means that they take the integration of the materials contained in them one step further than traditional compilations. In compilations the integration of works is given a fixed format. Such a fixed format will in most cases still allow individual access to each of the materials. Interactivity is the antithesis of any fixed format and allows for the full integration of the contents in a flexible way.

The second obvious candidate for protection with regard to multimedia products are films. In a film, different pre-existing works are put together in a systematic and methodical combination, so as to produce the artistic and/or informative result that they are aiming at. In relation to films the requirement of 'individual access' to their contents is also missing as it is in the case of some multimedia products. In the chapter that follows, we will discuss whether films are obvious or realistic candidates for the type of works that will offer effective protection to multimedia products.

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<sup>248</sup> G Schricker (ed), Urheberrecht auf dem Weg zur Informationsgesellschaft, Nomos Baden-Baden, 1997, at 41.

## CHAPTER VI

### AUDIOVISUAL WORKS

Unless multimedia works are projected onto a screen, their contents cannot be read, accessed or manipulated by users. The experience of copyright lawyers and others to date shows that there is, arguably at least, a strong presumption that data including or mainly composed of sound and images, which are projected onto a screen, fall within the category of audiovisual works. Thus, if we are to judge multimedia works according to their appearance or looks alone, we could argue that the one category of protection which seems most capable of accommodating multimedia products is that of audiovisual works.

This chapter will examine whether this initial presumption corresponds to the actual characteristics and needs of multimedia works when the issue is considered in detail. It will also consider whether the inclusion of elements of image and sound in a multimedia work is enough to place it under the legal umbrella of audiovisual works or related categories such as cinematographic works, films or motion pictures.<sup>249</sup>

#### 6.1 Audiovisual works as a generic term

##### 6.1.1 Audiovisual works

Not all national jurisdictions contain a definition of audiovisual works in their copyright laws.<sup>250</sup> However, the French Copyright Act, in article L112-6

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<sup>249</sup> Art.95 of the German Copyright Act refers to 'moving pictures' as a notion which adds to the notion of cinematographic works. The former seem to include any sequence of images or images and sounds, which are not cinematographic works, in the sense that there is no performance involved.

<sup>250</sup> By the term 'copyright laws' we also mean the laws on neighbouring rights.

defines audiovisual works as «works consisting of sequences of moving images, with or without sound». From this definition one derives the fact that an audiovisual work cannot exist unless a 'sequence of moving images' is not only present but also prevalent. This is the criterion for the existence of an audiovisual work. Although the term 'audiovisual' also implies the existence of a sound element, this element is not necessary. Silent pictures or documentaries which present only visual documents without the addition of any sound, also qualify as audiovisual works.

The definition of audiovisual works in the US Copyright Act, though more precise and descriptive, seems to be broader and more relaxed in relation to the existence of an element of 'moving images'. According to 17 USC §101 (1988), audiovisual works are those works which «consist of series of related images which are intrinsically intended to be shown by the use of machines, or devices such as projectors, viewers, or electronic equipment, together with accompanying sounds, if any, regardless of the nature of the material objects, such as films or tapes, in which the works are embodied». According to the wording of this article no requirement of 'moving images' exists. Images have only to be sewn together, linked and shown one after the other.

Works containing 'moving images', though a subcategory of audiovisual works, constitute a separate category of works under the US Copyright Act. 'Motion pictures', as these works are called under the US Act, are in fact audiovisual works which contain the particular characteristic that «when shown in succession, [they] impart an impression of motion».<sup>251</sup>

Both in the US and in France, as well as in Belgium,<sup>252</sup> 'audiovisual works' is a generic term within which certain subcategories are contained as species, i.e. cinematographic works, films and so on. So far one difference is apparent. As far as motion is required, we should look at a more precise kind of work than a general audiovisual work. Under US law, for example, we should look for 'moving

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<sup>251</sup> 17 USC § 101 (1988).

<sup>252</sup> Article 14, 30 June 1994.

pictures'. The notion of motion is not the only point of differentiation under the wide umbrella of audiovisual works. A second one is put forward in the Berne Convention in relation to the definition of cinematographic works.

### 6.1.2 Cinematographic works

In article 2(1) of the Berne Convention only cinematographic works are mentioned.<sup>253</sup> The decisive feature in relation to them is not the image or the sound, the motion or the absence of motion, but the use of a cinematographic process. The presence of the elements of image and sound are simply implied, as is the aspect of movement or at least the potential for movement. The definition or the requirement of these features is left with the Member States or implied by the traditional notion of cinematography. However, the Berne Convention mentions that cinematographic works are not only those which we traditionally know as such. Works which are expressed by a process analogous to cinematography are also included. At this point a first observation should be made.<sup>254</sup> Audiovisual works, which are not expressed by a process analogous to cinematography may exist. These works, however, are not to be assimilated into cinematographic works. In practice, it would be rather rare for a work to be fixed and the fixation or subsequent expression not to be subject to a method analogous to cinematography. However, even if such a case did exist, we can safely say that since cinematographic works stipulate more prerequisites in their definition, audiovisual works are larger in scope. The former therefore form a subcategory of the latter.

Berne's requirement for a process, which is either cinematography or something similar to it, strongly suggests the need for some kind of fixation. If fixation is non-existent, any kind of process is difficult to find or to assess. This in

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<sup>253</sup> See also art.9 of the TRIPs, which refers to the Berne Convention.

<sup>254</sup> Cinematography is a notion derived from the ancient Greek word 'kinissis', which means movement. It can therefore be argued that any cinematographic work at least involves the potential for movement.

a sense, however, contradicts article 2(2) of the Berne Convention, which provides that it is for the Member States

“to prescribe that works in general or any specified categories of works shall not be protected unless they have been fixed in some material form”.

According to Ricketson :

“in the case of cinematographic works, properly speaking, the question of fixation does not seem relevant, as the very process of making such a work implies fixation in a material form, that is, the recording of the optical images and sounds of the work on some material support”.<sup>255</sup>

The issue of which processes are analogous to cinematography was left open in the text of the Berne Convention, since it would be far too risky and at the same time restrictive to place limits on a rapidly developing film industry, which also promised processes incapable of being predicted or defined at this stage. The wording of this article, though flexible, has been tested severely on at least two occasions since its inclusion in the Berne Convention at the Brussels Revision of the Convention.<sup>256</sup>

The first time was immediately after the Second World War, when there was a big explosion of television and televisual works and massive developments in the T.V. industry were taking place. The problems that arose were the following: 1) Could televisual works come within the scope of cinematographic works? And could that be the case even though the notion of fixation was not implied in their definition and was not essential to their existence, whilst by definition

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<sup>255</sup> S Ricketson, *op. cit.* note 112, p.562. S Ricketson extends this argument to videographic works as well. *Ibidem*.

<sup>256</sup> Documents 1948, 156. However, its origins are found in art.14(4) of the Berlin Act, Actes 1908, 266.



cinematographic works had to be fixed on some material support. 2) Could televisual works qualify for the same kind of protection as cinematographic works, even though the method of their production and communication to the public was not the same nor even similar to that of cinematographic works?

In relation to the first issue, an argument was that article 2(1) of the Berne Convention was non-limitative, and when coupled with article 2(2), it could lead to the conclusion that Member States were free to include unfixed works as well in the field of protection of cinematographic works. This is especially so since in many countries television and radio broadcasts were already protected by copyright or neighbouring rights and were also the object of protection of the Rome Convention, signed in 1961.<sup>257</sup> In relation to the second issue weight was placed on the effects and the results produced by both works being very similar. Both cinematographic and televisual works produce analogous visual effects,<sup>258</sup> a combination of visual images and sounds projected onto a screen. At certain stages the processes used in cinematography are also common in the production of televisual works, such as for example the operations of cutting and montage.<sup>259</sup> Yet, that was held to be a broad interpretation of the notion of cinematographic works. Cut and paste are procedures used for almost any work and do not represent a process of cinematography or a process that is similar to it *stricto sensu*. Cinematographic works are recorded optically, whilst televisual works might in some cases not be recorded at all, or recorded on magnetic tape before they are broadcast. In the latter case televisual works could eventually come closer to the prerequisite of a process analogous to cinematography. The final outcome of the debate was that televisual works were held to come within the scope of protection of cinematographic works, whether fixed on some kind of material support or not. This was held to be so by reason of the pressing need for the protection of these

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<sup>257</sup> Rome Convention on the protection of performers, producers of phonograms and broadcasting organisations, 1961.

<sup>258</sup> Doc S/1, Records 1967, Vol I, 85 and Ricketson, see above, at 558 seq.

<sup>259</sup> Discussions of the Main Committee I, Records 1967, Vol II, 863-865, 881.

kinds of works due to their widespread availability on the international market and to the strong growth of demand in this area. At that stage these works were essentially unprotected. The protection of cinematographic works applied by analogy to the case of audiovisual works.

The second case which tested the limits of the concept of cinematographic works related to videographic works. It was easier in this instance, especially after the inclusion of televisual works in the same category, for one to maintain that videographic works produced the same visual results as cinematographic and televisual works. Moreover, these works were normally fixed on some kind of material support. In fact it was pre-existing cinematographic works which were fixed on the new material supports, such as video discs, tapes or cartridges. For this reason the process of their production and their fixation was found to be analogous to cinematography, even though these works were put to a different use than the traditional one of being shown to a large audience or, in the case of a televisual work, being broadcast. The fact that the videographic works were used for separate viewing by each consumer-individual (private use instead of public use) did not affect their assimilation into the category of cinematographic works. In addition to that, videographic works were surely a clearer case than televisual works since they quite evidently came closer to cinematographic works than the latter. That reason would suffice to preclude any debate at all.

### **6.1.3 Films**

The CDPA 1988 (UK) refers neither to audiovisual works nor to cinematographic works. It refers to films. According to section 5B, a film is «a recording on any medium from which a moving image may by any means be produced». Films require the element of a 'moving image'. This element is either provided for expressly in the national laws of some countries in relation to audiovisual and cinematographic works or implied by these notions. A part of literature supports the view that cinematographic works constitute the contents of a

film, whilst the film itself is the recording of a cinematographic work, in other words its fixation on pellicule.<sup>260</sup> This, however, should not necessarily be seen to be so after examination of the Berne Convention on the point of cinematographic works. Films and cinematographic works are notions which should be used interchangeably. First, because they both require some kind of fixation, and secondly, because if this were not the case, the Berne Convention would have provided for their separate treatment or at least mentioned it, especially in a period where the film industry was flourishing.

The fact that section 5B of the CDPA 1988 does not provide for a 'series or sequence of images' as would be expected in any audiovisual, cinematographic work or the like, should not be a problem. A certain sequence of images is implied by the notion of 'moving images'. It would be rather difficult to imagine the existence of 'moving images' without these images being subject to a certain logic or scenario, however bizzare or accidental. If that is the case in order for the scenario to be developed normally, an unfolding of frames is required. These plans can only be related to each other, linked, or else exist in a sequence. In the notion of 'moving images' such a link is almost always a necessary prerequisite.

What is of interest in the British definition of films is the provision that a film is a recording on any medium from which a moving image may by any means be produced. Thus, the problem of testing, according to the requirements of the Berne Convention, whether the process by which a particular work has been produced is analogous to cinematography is overcome. The definition is wide enough to encompass any kind of possible recording on any medium as long as such a recording exists of course. Unfixed works are not protected. On-line works are protected however on the condition that there is a pre-existing recording from which the on-line transmission can be made.

Having examined the various definitions of audiovisual works, cinematographic works and films, we could, perhaps, attempt a schematic classification. For such a purpose we will consider films and cinematographic

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<sup>260</sup> G Koumantos, *op. cit.* note 99, at 124.

works as essentially the same thing. 'Sequences of moving images' is a necessary prerequisite. If the images are not moving then we do not have an audiovisual work or film, but instead an artistic work, a painting, a literary work in another form, or a photograph. None of these categories necessarily requires the existence of any sound.

'Audiovisual works' seems to be a generic term.<sup>261</sup> It possesses all the common characteristics of cinematographic works or related works, apart from that of fixation. Cinematographic works and films are found one level down.<sup>262</sup> Their fixation is required. The process for their fixation should either be cinematography or something similar, or any kind of fixation, as is stipulated by the UK's Copyright Act. In the light of this we could maintain that when an audiovisual work is fixed it falls either within the category of cinematographic works or within that of films. Yet, it still remains a broader notion than that of cinematographic works or films.<sup>263</sup> In Britain audiovisual works are considered to be the same as films.<sup>264</sup>

The definition of films, which is enshrined in the European Directive on Renting and Rental Rights<sup>265</sup> seems at first sight to put forward the opposite view. According to article 2.1 of the Directive the term film «designate[s] a cinematographic or audio-visual work or moving images, whether or not.

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<sup>261</sup> *Ibidem*.

<sup>262</sup> Contra A Strowel and J P Triaille, *op. cit.* note 24, at 363.

<sup>263</sup> If we look at the roots of audiovisual works we could suggest that they form part of dramatic works, their predecessors in the national copyright laws of many countries. That, of course does not preclude the fact that they were protected by various methods in the past before their own separate and distinctive protection was established, i.e. through the protection of photographs, and so on. See also H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 365seq.

<sup>264</sup> In art.23 of the Greek Copyright Act (law 2121/1993) the term 'cinematographic film' is used as having the same meaning (interchangeably) with that of cinematographic works. Yet, the former is used to indicate the material support on which the cinematographic work is fixed. See G Koumantos, *op. cit.* note 99, at 124.

<sup>265</sup> Council Directive (92/100/EEC) on rental right and lending right and on certain rights related to copyright in the field of intellectual property, [1992] OJ L346/61.

accompanied by sound». In fact what it has done is to reverse the order we just described and suggest that a film is a notion which contains both moving images which are fixed, and moving images which are not fixed. In other words the notion of films is broader than that of audiovisual works. The latter is contained in the former. In article 2 of the EU Term Directive<sup>266</sup> cinematographic works are referred to as if they were not a subcategory of audiovisual works.<sup>267</sup>

There is no definite way of distinguishing between audiovisual works, films and cinematographic works, and most national copyright laws use one of the terms to include the others<sup>268</sup> or use all or some of the terms interchangeably. It is thus considered advisable for the purposes of this thesis to use these notions interchangeably. In any case the problems they present are in most cases identical or at least very similar.

## **6.2 Composite characteristics of audiovisual works**

All the above mentioned works have certain characteristics in common, which entitle them to the same protection. The nature of these characteristics indicates whether other works that are related to them fall within the same scope of protection or not. Because of this it is useful to examine these characteristics one by one.

### **6.2.1 The meaning of 'images'**

All of these works combine a visual and a sound element, although the latter is not a necessary prerequisite.<sup>269</sup> These elements are not always the only elements

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<sup>266</sup> EC term Directive, *op. cit.* note 231.

<sup>267</sup> G Koumantos, *op. cit.* note 99, at 272.

<sup>268</sup> «The 1988 Act talks of 'film', but defines it in a way which embraces audio-visual production in general...», W Cornish, *op. cit.* note 125, at 342.

<sup>269</sup> G Koumantos talks about an inaccuracy in the definition of audiovisual works (audio + visual works), which is justified by the historical origin of cinematographic works and the advisability of a

to be found. Text, graphics or other elements can be included as well. It is vital however that images are the prevailing element.

At this point the notion of image should be clarified. Does the law only refer to real images or to whatever can be projected or shown in the form of an image onto a screen, such as for example text, graphics, speech, literary or artistic works?

This question arose in cases concerning Minitel, programs for games and teletext. It was unclear whether they should be considered as audiovisual works or not. Even if they are not strictly speaking audiovisual works, it may nevertheless be advisable to consider them as such. The views thereon diverged. In the US Court of Appeals for the 7<sup>th</sup> Circuit, in the case *WGN Continental Broadcasting Co. v. United Video, Inc.*,<sup>270</sup> it was held that a teletext, which accompanied an information program broadcast at the same time on the same television signal as the teletext, but from a different channel, constituted, together with the information program, an audiovisual work. Yet, this decision was not based on the existence of teletext only. It seems that the leading view in the literature on audiovisual works holds that teletext as such cannot qualify as an audiovisual work in view of the lack of any real images.<sup>271</sup> However, it could be protected by the European Arrangement for the protection of Television Broadcasts, signed in Strasbourg on 20<sup>th</sup> June 1960, by those countries that have ratified it. Berenboom holds the view that even teletext qualifies as an audiovisual work, since it meets the criteria of law, according to his view. However, further explanation as to how these criteria are met, and what they are, is not given.<sup>272</sup>

The qualification of teletext as an audiovisual work would confuse the boundaries between audiovisual works and literary works. When a book with

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unified regime of protection for both works containing only images or images and sound together. This inaccuracy, however, is one-sided. It cannot work in favour of the sound element alone. For example, radio broadcasts, which contain only sound and no images at all, do not come within the scope of protection of audiovisual works. *Op. cit.* note 99, at 124.

<sup>270</sup> 693 F. 2d 622 (7<sup>th</sup> Circuit, 1982).

<sup>271</sup> A Strowel and J P Triaille, *op. cit.* note 24, at 360.

<sup>272</sup> A Berenboom, *Le nouveau droit d'auteur et les droits voisins*, Larcier, 1995, at 193.

illustrations is turned into a film, meaning that its illustrations unfold one after the other, it also qualifies as a film.<sup>273</sup> Yet, if the book as such is presented on a computer screen and read, though accompanied by illustrations, it still remains a book. Its fixation on a CD-ROM or on a videotape should not alter its primary nature as a literary work.<sup>274</sup> In the same way, an encyclopaedia which is carried by a linear or non-linear electronic medium should remain subject to the provisions of its publishing contract and its author should not lose his rights in favour of the publisher (director or producer). In this case the medium should be distinguished from the work it carries. In the same sense it should be considered that the (e.g. visual) result that is produced should not alter the nature and expression of the work, for example a written text (book or other literary work). A literary work can be fixed on new media, which are analogous to those used in cinematography, television or in the computer industry, without at the same time altering the nature of the first work, provided that remains essentially unaltered.<sup>275</sup> The carrier or medium, however, is capable of creating a presumption in favour of certain classifications. The issue of digitisation of works will simply be held at this stage as an adaptation of the work, which does not constitute a significant alteration of its nature.

### 6.2.2 The requirement of '(sequences of) moving images'

The essential characteristic of all the works falling within the 'genus' of audiovisual works or films is the existence of 'a sequence of moving images'. Yet, not all national laws refer to this feature as such. The CDPA 1988 refers to 'moving image',<sup>276</sup> the German Copyright Act refers to 'sequences of images',<sup>277</sup>

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<sup>273</sup> Group Audiovisuel et Multimédia de l'Edition, Questions juridiques relatives aux oeuvres multimédia, (Livre Blanc), 1994, at 20.

<sup>274</sup> A Strowel and J P Triaille, *op. cit.* note 24, at 81seq. and 361.

<sup>275</sup> There will always be minimal alterations, of course, in order for a work to be adapted to the carrier chosen.

<sup>276</sup> Section 5B (1).

whilst the US Copyright Act refers to 'a series of related images', or in the case of 'moving pictures' to pictures which are 'shown in succession and impart an impression of motion'.<sup>278</sup> If we attempt a literal interpretation of the above phrases, we will observe that the required existence of a link between the images or pictures does not always imply the existence of motion. A series of pictures may unfold onto a screen without imparting the impression of motion. The only motion involved may be one picture succeeding the other. But that is not considered to be motion in its literal sense. It is only movement.<sup>279</sup>

Even in the case of the French Copyright Act, which expressly provides for 'sequences of moving images',<sup>280</sup> the notion of motion (animation) is approached broadly. However, the instances where fixed frames are stuck together, or where still images or photographs follow one another in the sense of an exhibition, are excluded from the notion of audiovisual works altogether.<sup>281</sup> Otherwise an overlap or at least confusion with the category of artistic works may be created. If images or frames are linked to each other and constitute a unit, their unfolding onto a screen allows them to qualify as an audiovisual work where this unfolding is subject to some kind of scenario.<sup>282</sup> In the same sense an encyclopaedia of artistic

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<sup>277</sup> Art.95 of the Copyright Law of the 9<sup>th</sup> September 1965. This article is entitled 'moving pictures' and it refers to certain articles dealing with cinematographic works (i.e. 88, 90, 91, 93 and 94), without, however, defining the notion of cinematographic works. What is of interest at this point is that the German Copyright Act distinguishes cinematographic works from moving pictures. Yet, it is not clear whether the idea of motion is not referred to but implied in the notion of moving images. If that is the case it is not clear the basis on which the German Act differentiates cinematographic works from moving images.

<sup>278</sup> Art.101 USC Act 1976.

<sup>279</sup> As we mentioned earlier, a 'sequence of images' might not imply motion, but motion implies a 'sequence of images'.

<sup>280</sup> Art.L112-6 of the French Copyright Act.

<sup>281</sup> See also A Strowel and J P Triaille, *op. cit.* note 24, at 360, and contra, A Berenboom, *op. cit.* note 272, at 193, footnote 13, where he argues that a succession of fixed frames can also qualify as an audiovisual work.

<sup>282</sup> Livre blanc du groupe audiovisuel et multimédias de l'édition, *op. cit.* 273.



works should not fall within the notion of audiovisual works, although one image may follow the other, because these images have not been sewn together subject to a scenario.

A second issue which arises at this point is whether the required sequence of images has to be a standard and stable sequence of images or whether it can be altered without impinging on the notion of audiovisual works. The question was graphically answered in *Midway Mfg. Co. v. Artic International, Inc.*<sup>283</sup> In this case the US Court of Appeals (7<sup>th</sup> Circuit) held that a video game was an audiovisual work in so far as it possessed a series of related images, referred to as «any set of images displayed as some kind of unit». The fact that the sequence of these images varied according to the use initiated every time by the user was not held to affect the qualification of the video game as an audiovisual work. This was perhaps so because in video games the possible sequences of images are still very much pre-defined by the manufacturer. The user's influence on these sequences is still rather limited.

### 6.2.3 Fixation

In relation to audiovisual works there is no express requirement for some particular kind of fixation or for any kind of fixation at all.<sup>284</sup> In relation to films and to cinematographic works fixation is either implied by the 'process of cinematography or analogous to it', or it is expressly mentioned by the requirement of a 'recording'.<sup>285</sup> However, the form of fixation required in these instances is not standard, definite or precisely described. Particularly under the CDPA, any kind of recording would qualify. Requiring a particular recording would ignore the fast developing new media industry and would lead to the provision being soon outdated. Thus, a wide range of supports can qualify as appropriate supports for the

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<sup>283</sup> 704 F.2D 1009 (7<sup>th</sup> Circuit, 1983).

<sup>284</sup> Common-law countries require fixation for every single kind of work.

<sup>285</sup> S.5B CDPA 1988.

recording of audiovisual works as long as the work originally recorded can be reproduced from them unaltered. Pellicule, video tapes and CD-ROMs are just some examples. On-line transmissions as such do not qualify as recordings. However, technically speaking these transmissions normally involve a form of recording. Whether this transient recording meets the requirements of the CDPA for recordings must remain open to serious doubts.

What we can observe so far is that in the course of examining whether a work qualifies as an audiovisual work or not, the carrier of the work at issue should not play any role. The test of whether a work qualifies as a cinematographic work or not, (decided according to whether the process used in the work is analogous to cinematography or not), the history of cinematographic works, and the incorporation of televisual and videographic works within their scope of protection, have shown that cases where the work possesses the essential characteristics of an audiovisual or cinematographic work, but does not qualify as such by reason of the support on which it is incorporated, will be rare or non-existent.

#### **6.2.4 The intention to show audiovisual works to a public**

In the preparatory works of the Legal Affairs Committee of the Chambers of Deputies in Belgium,<sup>286</sup> audiovisual works have been defined as a mixture of sounds and moving images which are intended to be shown in public. Although preparatory legislative work does not have the binding force of a legal provision, it nevertheless throws light on the interpretation of the law, by revealing nuances of meaning implied in the notions contained within it. The present wording puts forward one more prerequisite in relation to audiovisual works. They are intended to be projected in front of a public.<sup>287</sup>

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<sup>286</sup> Report de Clerck (LDA), at 181.

<sup>287</sup> In art.4§3 subparagraph b of the previous Copyright Act (n. 1597/86) a cinematographic film was defined as the copy of a completed cinematographic work which is the same as the original (or

The notion of 'public' is not clear though. Does it refer to a projection in front of large groups of people or also to a use which, though private, is not restricted to a certain group of people but is open to everyone? The literal interpretation of the wording of the preparatory work would offer a presumption in favour of the classic example of the projection of a film in a cinema to people who would constitute the public in the eyes of the law. However, such an interpretation would unjustifiably restrict the notion of audiovisual works, especially in a society where entertainment has begun to be more private in nature rather than a collective activity. In the light of this the medium on which it is carried should either not play any role at all, or its role should not be decisive. If that were not the case, a huge bundle of works would stay out of the scope of audiovisual works, running the risk of not finding any appropriate legal provisions for their accommodation at all.

In addition, taking into account the examples of televisual works and videographic works which have been included in the notion of cinematographic works, even if projection in front of a public had another meaning, this meaning has been redefined and allows private unrestricted use as well. In the era of new technologies, any particular provisions for a special kind of fixation would ignore the reality of the digitised world. All works are nowadays fixed in the same format and communicated by more or less common methods. These methods are increasingly moving away from collective activities (e.g. collective entertainment, collective education, etc.) as well as from the requirement of the presence of many persons at the end use of the product. Therefore the requirement of a large public would seem absurd. We have moved on from the era where the broadcaster/performer was one and the receivers many. Now broadcasters/performers and receivers might be many at the same time, or what is even more common the broadcasters/performers may be many and the receiver one. The receiver makes his choices privately, in his home, from the moment he chooses whether he will turn his computer or T.V. on or not. He chooses what he

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master copy) and is intended for public or private use. Thus, there is no absolute requirement in all national laws for an audiovisual work to be shown only in public.

will bring onto his screen, download, etc. In the light of this, projection in front of a public should no longer be such a substantial and decisive factor in the legal provisions surrounding audiovisual works. It should have been used only to create presumptions and has been invalidated by the circumstances as explained earlier. It is not that the notion of public has disappeared, rather it has been redefined. If private users of audiovisual works, who either view their video tapes at home or receive on-line films onto the screen of their TVs or computers, were counted, they would doubtless form a large public in the same traditional sense required by the drafters of the law who initially had in mind the projection of films in front of large audiences.

### **6.2.5 Concluding remarks**

In conclusion we could say that in all works which are audiovisual or related to them, the only prevailing characteristic is the existence of a sequence of moving images. The idea of motion might vary from the unfolding of fixed images which are linked to each other by a scenario to the existence of real motion, which by itself precludes the existence of any fixed frames or still images at all. The end purpose and the form of fixation of these works do not constitute composite elements of their definition. Televisual works, videographic works and video games are also included within the ambit of these works.<sup>288</sup>

### **6.3 A comparison between audiovisual works and literary works, compilations, databases and computer programs**

It is, perhaps, interesting at this point to examine how the different kinds of works we have discussed up to now (with the exception of computer programs) compare with each other, in order to find out whether an overlap is apparent, and

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<sup>288</sup> Documentaries, video clips and publicity spots are also included within the notion of audiovisual works.

whether in such a case a work can qualify for protection in more than one category of works. It may also be possible to spot the reasons why one or other of these categories is excluded or why more than one category is applied.

Audiovisual works and literary works seem to be at opposite ends of the spectrum. Literary works are essentially works of language, which are meant to be written, spoken or read. They are not meant to be shown/displayed. Their dominant element therefore is text and not images. Moving images in particular play no part. The law itself<sup>289</sup> precludes a work from qualifying both as an audiovisual work and a literary work. Article 3(1) of the CDPA 1988 provides that «‘literary work’ is any work *other than* dramatic...»<sup>290</sup>, whilst art.101 of the US Copyright Law provides that «‘literary works’ are works, *other than* audiovisual works, expressed in words...». The fact that the US Court of Appeals has recognised teletext as an audiovisual work rather than a literary work, though arguably not scientifically correct, was due to two reasons. First, it was not considered to exist in isolation but to be part of a television program of information, broadcast at the same time and secondly, it was the characteristics of the latter (news headlines and text) which counted in its qualification.<sup>291</sup>

Although audiovisual works are complex works and in most cases include a combined visual and sound element, their nature is different from the nature of a traditional compilation. The first obvious reason is that, although compilations combine more than one work, including images, graphics and other elements, their prevailing element is still text, and their purpose is the same as that of literary works. They are meant to be read. A compilation which forms part of a literary work cannot be displayed, though it contains elements which as such can be displayable. Arguably its prevailing element cannot be an image and it is not capable of incorporating any sound. Moreover, it is incapable of either giving the impression of motion, or of containing any moving images which cannot take the

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<sup>289</sup> Anglo-Saxon law in particular provides for this expressly.

<sup>290</sup> We have explained that an audiovisual work is a dramatic work in the broad sense of the notion.

<sup>291</sup> *WGN Continental Broadcasting Co. v. United Video, Inc.*, 693 F2d 622, 628 (7<sup>th</sup> Cir., 1982).

form of a written format. In the light of this, if a work qualifies as a compilation, it is logically incapable of qualifying as an audiovisual work as well. The two notions are mutually exclusive.

What, however, are more difficult to distinguish from audiovisual works are databases. This is the case because databases offer the opportunity of visual and sound elements being combined in the same way as they are combined in a film. Yet, the very notion of a database, as this is defined in article 1.2 of the EU Directive on the legal protection of databases<sup>292</sup> is incompatible with that of an audiovisual work.<sup>293</sup> Specifically, a database is defined as ‘a collection of independent works, data or other materials arranged in a systematic or methodical way and individually accessible by electronic or other means’. Vital in this definition is the feature of individuality that every work contained in a database has to possess and the opportunity of accessing each work individually. A film does not possess these characteristics. The frames which go to make up a film are not independent from one another. Neither are they accessible on their own by electronic or other means.<sup>294</sup> Recital 17 of the database Directive is explicit. «A recording or an audiovisual, cinematographic, literary or musical work as such does not fall within the scope of this Directive». In other words, even if we take the loose meaning of the notion of moving images, which considers images as only being linked or related to each other and unfolding according to a scenario, this interpretation is still not wide enough to make a case where a database and an audiovisual work can co-exist<sup>295 296</sup>.

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<sup>292</sup> EU database Directive, *op. cit.* note 47.

<sup>293</sup> See also Recital 17 to the Directive. And I Stamatoudi, *op. cit.* note 56, at 442.

<sup>294</sup> *Ibidem.*, and L Kaye, *op. cit.* note 217.

<sup>295</sup> See contra, without any explanation, A Strowel and J P Triaille, *op. cit.* note 24, at 367. If databases came anywhere near to one of the aforementioned categories, it would be to audiovisual works, where the requirement of ‘moving pictures’ is looser, and not to the category of films, as held by A Strowel and J P Triaille.

<sup>296</sup> The case of video games, which qualify in certain cases as audiovisual works (though the sequence of their images is not stable and unaltered), will be discussed in chapter VIII.

It is, perhaps, easier to argue that computer programs and audiovisual works have less in common with each other than with almost any other work. Although computer programs possess visual and sound elements these elements are only minimal in nature. The language, structure, form of fixation and end-use of computer programs are completely different from those of audiovisual works. They are not meant to be projected as moving pictures which are to be viewed from beginning to end but are meant rather to perform particular tasks initiated by the choices and needs of their users. In addition to that, computer programs are only functional in a computer environment. Nothing can be accessed, read or downloaded without the aid of a computer. The characteristics of audiovisual works and computer programs, as well as the different purpose they serve, render them mutually exclusive notions.

Thus, if one decides that a multimedia work falls within one or other of the above mentioned categories, certain other categories of works are automatically excluded, either explicitly by the law or by reason of the mutually exclusive elements which comprise some of them. In the light of this, cumulative protection of multimedia works is not possible. Yet, that should not prevent us from arguing that in the cases where a multimedia product comes closer to one category than another it should be included in this category or that parts of the work can come within the scope of different categories.<sup>297</sup> The category assigned to it might vary according to the particular case. A difficulty inherent in the phenomenon of multimedia works is that their looks, structure and nature are highly variable.<sup>298</sup> And the issue is aggravated by the rapid evolution of technology and of the choices it offers to both developers and users.

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<sup>297</sup> Whether that is advisable or not will form the subject of a different section.

<sup>298</sup> Of course, we admit that there is always a common core in the multimedia phenomenon on which a common and unified regulation should be based.

## 6.4 Distinctive features of the regime of protection of audiovisual works

In order for a multimedia work to qualify as an audiovisual work, not only do its components have to match those of an audiovisual work, but also the whole regime of protection of an audiovisual work must be capable of accommodating the needs of a multimedia product. The examination of the distinctive features of the regime of protection of audiovisual works can throw some light on this issue.

### 6.4.1 Originality

Under the CDPA 1988 films do not have to be original to come within the scope of article 5B of the Act. However, if they constitute a copy of a previous work, e.g. a mere lifting of the images and frames of a film without any transformation or modification<sup>299</sup>, they do not qualify for protection under the CDPA 1988. This can be held as a *de minimis* rule of originality which, however, does not mention any traditional common-law requirement for skill and labour in the course of the creation of a film. In Continental Europe, films or cinematographic works have to be original in the same sense as any other work which qualifies for copyright protection. Films form one more example of the general regime of protection.

### 6.4.2 Authorship

The authorship of a film has in certain countries, and particularly in common-law countries, been drawn on a different basis than the one applied to other intellectual property works. It mirrors an entrepreneurial approach, which favours the investors and distributors rather than the real creators of the work. This

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<sup>299</sup> It is alleged that even adaptations of lifted images can allow a work to qualify as a film on its own merits.



clear favouring of entrepreneurs in relation to films<sup>300</sup> is due to the particular features and problems films present in comparison to other intellectual property products. The production of a film demands large investments in administrative and technical personnel, equipment, machinery, expensive processes of production, multiple creators, parallel production of the material carrier on which the work will be incorporated, e.g. the video tape, celluloid, etc. When other intellectual property works demand those sums, it is the exception rather than the rule or it is at the stage of their distribution rather than their production.<sup>301</sup> The person or company which provides these investments is called a 'producer'. And it is this person or company that the CDPA 1988, as it was originally adopted, designated as the author of a film. The argument is that production budgets will not be provided, unless an investor is secured. The most efficient way of securing the investor is to designate him as the author and first owner of the rights in the work. In article 9(2)(a) of the CDPA, the author of a film is held to be the person by whom the arrangements necessary for the making of the film are undertaken.<sup>302</sup> In the US Copyright Act, no specific regime is put in place but it can be readily accepted that the 'work for hire' rule will apply and that a similar outcome will therefore be achieved.<sup>303</sup>

Such a solution would not be admissible in the copyright laws of Continental Europe. The author should always be the real and actual creator of the work<sup>304</sup> and this creator can only be a natural person. Thus, companies or other legal entities are excluded altogether from the category of authors, along with the producer, who can only obtain rights in a film by reason of a contract (licence or assignment) as a subsequent rightholder and never as a primary (original) one. Even in cases where

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<sup>300</sup> Entrepreneurs are favoured more in relation to films than in relation to any other intellectual property work.

<sup>301</sup> See G Koumantos, *op. cit.* note 99, at 310.

<sup>302</sup> It is understood that this is in fact the producer.

<sup>303</sup> See § 201 (a) and (c) and § 101 US Copyright Act.

<sup>304</sup> A personal bond between the person creating the work and the work itself should exist, as that is the rationale of the whole system of continental droit d'auteur.

the producer interferes with the final 'look' of the work, so as to make it more marketable or economically attractive for example, the character of his work is considered to be more technical and financial rather than anything else.

In Continental copyright law either a number of persons who have contributed to the creation of a film are designated as authors, or the director alone. The director is held to have a creative role since he co-ordinates and regulates the structure, content and appearance (image) of the whole film<sup>305</sup>.<sup>306</sup> His role is highly creative although his contribution cannot be traced to a particular distinguishable part of the film, e.g. the script, the music, etc. For that reason many countries have introduced a legal presumption in favour of the director. In France, the author of the script, the author of the adaptation of the dialogue and of the musical compositions (with or without words) specially composed for the work are considered to be the joint authors of a film with the director.<sup>307</sup> In other countries, such as Greece, the designation of a single person as the author of a film, i.e. the director, was held to facilitate the regime of protection of films and their clearance of rights.<sup>308</sup> After the enactment of the Council Directive on rental and lending rights,<sup>309</sup> which followed the continental paradigm of protection with regard to films, all Member States were required to designate the principal director of a film as its author or one of its authors. The latter option was obviously only open to those Member States that also wanted to designate other persons as authors.<sup>310</sup>

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<sup>305</sup> See the French Copyright Act, art.L113-7; Belgian Copyright Act, art.14; German copyright Act, art.65(2) and the Greek Copyright Act, art.9.

<sup>306</sup> «Film-making has today acquired an irreversible status as an art-form and the Directive acknowledges the clear case of directors being treated as authors». W Cornish, *op. cit.* note 125, at 342.

<sup>307</sup> Art.L113-7 of the French Copyright Act.

<sup>308</sup> Art.9 of the Greek Copyright Act 2121/1993.

<sup>309</sup> EC rental and lending rights Directive, *op. cit.* note 265.

<sup>310</sup> Article 2.2 of the Directive provides that «for the purposes of this Directive the principal director of a cinematographic or audio-visual work shall be considered as its author or one of its authors». In the same article the Directive continues that «Member States may provide for others to be considered as its co-authors».

Under the current transformation of UK law, both the principal director and the producer of the film are considered to be joint authors of a film.<sup>311</sup>

The author of the film is also the first owner of the rights in it. If this presumption is coupled with the one deriving from the fact that the name of the author/rightholder appears on copies of the work in a manner usually employed to indicate authorship,<sup>312</sup> the tracking of the person responsible, from which one can apply for permission or licence in relation to an audiovisual work, becomes easier and more convenient. It creates security in law. In this sense clearance of rights is facilitated, and future users of the work in the new technological era are more inclined to include it in new productions.

#### 6.4.3 Works of joint authorship, collective works, etc.

The fact that only a few contributors<sup>313</sup> are recognised by the laws of the various states as authors of an audiovisual work, creates the presumption that an audiovisual work is a work of joint authorship. It is a work produced by the collaboration of two or more authors whose contribution towards the work cannot be distinguished from one another<sup>314</sup>.<sup>315</sup> In the French Copyright Act, a film is a *de jure* collaborative work<sup>316</sup>.<sup>317</sup> According to article L113-2 of the French Copyright

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<sup>311</sup> Of course, nothing has changed from the fact that according to the British Act, the rights of works created by employees are automatically transferred to their employers. In the case of films, if the director is an employer his rights are automatically transferred by reason of the employment contract to the producer of the film, if he is his employer. See W Cornish, *op. cit.* note 125, at 342.

<sup>312</sup> I.e. art.L113-1 of the French Copyright Act, and s.10(1) CDPA 1988.

<sup>313</sup> Or only two now in Britain, the producer and the director.

<sup>314</sup> S.10(1) CDPA 1988.

<sup>315</sup> In the Greek law an audiovisual work is held to be a collective work rather than a collaborative work. See art.9 of the law 2121/1993 and G Koumantos, *op. cit.* note 99, at 169.

<sup>316</sup> See especially B Edelman, "L'oeuvre multimédia, une essai de qualification" [1995] 15 Recueil Dalloz Sirey 109, at 114.

<sup>317</sup> The distinction between collective, collaborative and composite works is not recognised in all countries. See e.g. the CDPA 1988 that provides for works of 'joint authorship' instead of collective

Act «a ‘collaborative work’ shall mean a work in the creation of which more than one natural person has participated». In other words whenever a creative elaboration or contribution by many natural persons has taken place for the realisation of a project, which ends up being the collaborative or joint work of many persons, the work at issue is also by definition a collaborative work or a work of joint authorship. However, these two definitions are not the only definitions available in relation to an audiovisual work. The notions of collective and composite works are also available.<sup>318</sup> A ‘composite work’ under article L113-2 is a «work in which a pre-existing work is incorporated without the collaboration of the author of the latter work», whilst a ‘collective work’ is «a work created on the initiative of a natural or legal person who edits it, publishes it and discloses it under his direction and name and in which the personal contributions of the various authors who participated in its production are merged in the overall work for which they were conceived, without it being possible to attribute to each author a separate right in the work as created». In the case of French law these latter definitions play a role which is only of secondary importance.<sup>319</sup> Yet, in other countries, such as Greece, an audiovisual work is held to be a collective work, since it is supposed to have been created under the initiative of one person, namely the director. The above mentioned qualifications of audiovisual works, whether *de jure* statements or simply legal presumptions, can in some jurisdictions be rebutted according to the facts and particularities of each case.<sup>320</sup>

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works. The former are defined in art.10 of the Act as works «produced by the collaboration of two or more authors in which the contribution of each author is not distinct from that of the other author or authors».

<sup>318</sup> How the notions of collective, collaborative and composite works relate to each other, will be discussed in the next section of this chapter.

<sup>319</sup> See B Edelman, *op. cit.* note 316, at 110.

<sup>320</sup> Under French law there is no presumption and the qualification cannot be rebutted. Audiovisual works can only be collaborative works. See the *Ramdam case*, Cour d’Appel de Paris, 16.5.1994, (1995) JCP GII 22375, Annotated by Xavier Linant de Bellefonds and by A Kérever in RIDA October 1994, p.474 ; see also Cour de Cassation 1ère Chambre Civile, 26.1.1994, 164 (1994) RIDA 433 and A Lucas, ‘Multimédia et droit d’auteur’, in AFTEL Le Droit du Multimédia : De la

Apart from the authors-creators of an audiovisual work in continental copyright systems, the role of the producer has been recognised and promoted as well. However, since his protection is essentially a hybrid of copyright and not a genuine right deriving from his actual creative role in relation to the work, it has been put under the rubric of neighbouring rights rather than copyright. The producer is deemed to be the rightholder of the rights of the work, the first fixation of which is made by him.

#### **6.4.4 *Cessio legis* in favour of the producer**

In order to assist the producer in his role of assembling and publishing the audiovisual work, the law has introduced the legal presumption that those rights of the contributors of a film which are necessary for its creation and commercialisation have been transferred to the producer even if this is not expressly mentioned in the contract for the production of the film<sup>321</sup>.<sup>322</sup> This *cessio legis*, which is in fact a form of quasi-compulsory licensing, though it exceeds the limits and boundaries of the traditional copyright system and the freedom of the authors, has been considered necessary for the completion of the film. It prevents the creative participants from creating obstacles that are capable of impeding the production of a film.

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Télématique à Internet, 1996, Les Editions du Téléphone, 113, at 148. This approach has been criticised as completely inappropriate for multimedia works in Livre Blanc du Groupe Audiovisuel et Multimédia de l'Édition, *op. cit.* note 273, at 22-23, where it is argued that only a rebuttable presumption would suit multimedia works if they are to be fitted into the category of audiovisual works.

<sup>321</sup> The rights held by music composers or songwriters are not subject to this automatic transfer of rights in Britain (5B CDPA 1988) or in Greece (art.34§2 of law 2121/1993).

<sup>322</sup> In most national copyright acts the contributors of works in a film can also use them separately in other intellectual property products, always, of course, with the reservation of unfair competition law. See, for example, art.L132-23 - L132-30 of the French Copyright Act, art.89 of the German Copyright Act and art.34§2 subpara c of the Greek Copyright Act. In the Anglo-Saxon tradition this depends on the contractual agreements between the parties.

#### 6.4.5 A modified regime on moral rights

Under the same philosophy restrictions on the moral rights of the contributors (co-authors or not) of an audiovisual work have also been imposed, until the work is completed. According to article 16 of the Belgian Copyright Act «The authors' moral rights may only be exercised by the authors with respect to a completed audiovisual work», such a work being «when the final version [of the audiovisual work] has been fixed by common accord between the main director and the producer».<sup>323</sup> Until the completion of the audiovisual work no work in the sense of the law is deemed to exist to which the moral rights' principles can be applied. No relevant provision is enshrined in the UK's Copyright Act. Moral rights would not be a problem in Britain in any case, since moral rights provisions are not *ius cogens*. They can be waived and even the right of paternity needs to be asserted before it comes into being. They do not apply at all in the case of employees. In cases where they do apply they can be waived not only for existing but for future works as well.<sup>324</sup>

The provisions enshrined in the laws of most countries in relation to the implied transfer of certain rights in favour of the producer and the restrictions on the moral rights of co-authors of an audiovisual work, facilitate the production of such a work by making certain procedures more efficient, secure and stable. This results in any future clearance of rights being more convenient, since one can easily find out to whom one should address the request and the number of people to whom one should address it is limited. The main reason and philosophy behind these provisions is that importance is placed on the audiovisual work as a whole

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<sup>323</sup> See also art.132-24 of the French Copyright Act, art.34(1) of the Greek Copyright Act and art.90 of the German Copyright Act. In the Anglo-Saxon tradition these matters are covered by the contractual relationship between the parties. This can involve a waiver of moral rights. The rights to a film are also traditionally vested in the employers in the Anglo-Saxon system. See s.11.2 CDPA 1988.

<sup>324</sup> S.87(2)(3) CDPA 1988 and see also I Stamatoudi, "Moral rights of authors in England: the missing emphasis on the role of creators" (1997) 4 Intellectual Property Quarterly 478, at 494.

and not on its constituent parts. The parts as such might not have been created without the impetus of the creation of the whole audiovisual work and in most cases do not have the economic and market value that the complete audiovisual work will have. According to this approach, concessions in relation to the contributors of the constituent parts of a film are allowed and do not contradict the free spirit or essence of the copyright law.<sup>325</sup> This logic might be desirable and welcomed in the case of multimedia products as well.

#### **6.4.6 A full panoply of rights**

In addition to all of the above, audiovisual works are granted a full panoply of economic and moral rights,<sup>326</sup> equivalent to those possessed by genuine copyright works. These rights comprise those of production and reproduction, diffusion, communication and distribution, lending and rental rights. Also, special provisions are provided in the event of new modes of exploitation of audiovisual works, provisions which are particularly important in the era of new technologies.<sup>327</sup> Moreover, in any case where a new right seems to be ready to enter the arena of the bundle of traditional copyright rights (either by genesis or by teleological interpretation of the law), audiovisual works are always going to be under discussion in relation to it as an obvious candidate. This was, for example, the case with the 'right of destination', which seemed to derive from article 31§3 of the French Copyright Act. The Act provided that «all assignments of copyright are made subject to the condition that each of the rights granted be delimited by reference to its extent and purpose [destination], its place and its duration». This

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<sup>325</sup> The British system clearly puts the emphasis on the work and the investors rather than the author. The author is only protected indirectly.

<sup>326</sup> Recently moral rights have been granted to performers as well by reason of the introduction of the new WIPO Protocol.

<sup>327</sup> See for example, art.19 of the Belgian Copyright Act which provides that «save for audiovisual works belonging to the non-cultural field or to advertising, authors shall be entitled to separate remuneration for each mode of exploitation».

right was held to mean the author's right to restrain the loan, exchange or hire of books or audiovisual cassettes, or the broadcasting of records commercially purchased, since he could control the purpose for which his work would be used. This was held to imply the notion of destination as well.<sup>328</sup>

Another provision relating to the exploitation of audiovisual works is the one referring to the remuneration of authors. Article L131-4 of the French Copyright Act provides that "the author's remuneration may be calculated as a lump sum". In the *droit d'auteur* system, this provision is exceptional since initially it was held to impinge on the economic and fair remuneration of the authors which is usually calculated in percentages every time the work is exploited. However, the specific requirements of audiovisual works and the reality of their production have dictated less liberal solutions in this area.

#### 6.4.7 Term of protection

Special provisions also exist with regard to the term of protection of audiovisual works. Member States of the European Union have incorporated the provisions of the term Directive into their laws.<sup>329</sup> Article 2.2 of the Directive designates a number of contributors to an audiovisual work, which the Member States may or may not have considered as co-authors of an audiovisual work and it also provides that the term of protection of cinematographic or audiovisual works shall expire 70 years after the death of the last of those persons to survive<sup>330, 331</sup>. *De*

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<sup>328</sup> See M Gotzen, *Het bestemmingsrecht van de auteur*, Brussels, 1975, at 376 and A Lucas, "Copyright and the new technologies in French law" [1987] 2 EIPR 42, at 43. This theory was however never adopted in practice.

<sup>329</sup> EC term Directive, *op. cit.* note 231.

<sup>330</sup> US law provides for 75 years from first publication or 100 years from the creation, whichever expires first. See §302 (c) of the US Copyright Act.

<sup>331</sup> The EC term Directive presents a contradiction between para 2 and para 1 of art.2. Although para 1 provides that the principal director of a cinematographic or an audiovisual work shall be considered as the author or one of the authors of these works, para 2 provides that the term of



*facto* the list of contributors and thus potentially also the duration of the copyright in the audiovisual work varies between the Member States. A separate term of protection is provided in article 3.3 of the Directive for the rights of producers. This term, which is a neighbouring right in continental copyright,<sup>332</sup> starts to run from the first fixation of the film and expires 50 years after the fixation is made. However, if the film is lawfully published or lawfully communicated to the public during this period, the rights expire 50 years from the date of the first such publication or the first such communication to the public, whichever is earlier. The date of first fixation of a film is easy to prove, avoiding tests of originality and difficulties in relation to titularity, but if the work has been released, the date of release is even easier to ascertain for anyone involved. The latter is an act in the public domain whilst the first one may not be.

## **6.5 Multimedia works as audiovisual works**

### **6.5.1 Multimedia works as *de jure* audiovisual works**

#### **6.5.1.1 Complex works**

Having analysed the definition of audiovisual works and of categories related to them (cinematographic works and films), we will now examine whether

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protection for an audiovisual or cinematographic work shall expire 70 years after the death of the last of the following persons to survive, whether or not these persons are designated as co-authors: the principal director, the author of the screenplay, the author of the dialogue and the composer of the music specifically created for use in the cinematographic or audiovisual work. The fact that for the first time a term of protection might run from the death of a person who is not held to be the author of a work is a novelty which depurifies the notion of copyright. See also Koumantos, at 272.

<sup>332</sup> W Cornish mentions that the fact that even after the EU Rental and Lending Rights Directive, Britain gives the copyright in a film to the principal director and the producer jointly. This must count as the ultimate hybrid among intellectual property rights and demonstrates a thoroughly British determination not to subscribe to the authors' rights-neighbouring rights dichotomy, *op. cit.* note 125, at 342.

multimedia products fit neatly within this category of works, or whether they can at least fit in it by analogy (purposive interpretation). For the needs of this section, we will refer to audiovisual works and films interchangeably, as if there were no differences between them at all. This was thought to be advisable, firstly, because their actual differences are almost non-existent and *de facto* assimilated in the intellectual property literature of the various states, and secondly, because many countries, for example the UK, do not have separate provisions for audiovisual works and films. Thus, the problems multimedia products face in terms of assimilation with audiovisual works are in most cases identical to the ones they face in terms of assimilation with films, cinematographic works, etc.

Audiovisual works are, like multimedia products, 'complex' works, which in most cases combine *de facto* more than one type of work, i.e. image and sound. The latter is however not a necessary element of their nature. The complexity of audiovisual works, wherever this complexity exists, is not a vital and essential component of their definition. The national copyright laws of the various states do not expressly refer to it. On the contrary, the existence of more than two different types of works is an essential element in the definition of multimedia products. In addition to that it is not only the case that different kinds of works are combined to form a multimedia product, but that the number of the combined works is well above that found in any traditional film or audiovisual work, even in those cases where the latter works combine both sound and image. Thus, the difference in quantity unavoidably becomes a difference in quality as well (a limited number of works compared to a vast number of works). In addition, in the case of films the constituent works have been combined so as to form an amalgamation of sound and image where these two co-exist and are independent at the same time. In the case of multimedia products the works contributed are assimilated, and nothing of their independence is retained.<sup>333</sup>

One could argue that national laws on audiovisual works, as they were

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<sup>333</sup> G Koumantos, "*Les aspects de droit internationale privé en matière d'infrastructure mondiale d'information*" [1996] *koinodikion* 2.B, at 241, at 243.

presented in the first section of this chapter, have been worded and construed in such a way as to read that creations bringing together data of any nature, other than image or where images are not prevalent, and also data which, though prevalent, do not form a sequence of animated or moving images, are excluded from the scope of protection of audiovisual works.<sup>334</sup>

On the basis of the above observation the following should be pointed out. By definition certain data do not fall within the category of moving images. This is the case where the law of a country requires pre-existing moving images to be recorded as a film, and the data recorded do not meet the requirement. Another case is where certain data, though not moving images by nature, can still be recorded in such a way as to form a moving image. The question here is whether it suffices for the law of a country that the motion of images derives from the recording of the data and not from the nature of the data itself as moving images. In the CDPA 1988, there is no requirement for the data to actually be a moving image, even before they are recorded. Yet, in the Copyright Act 1956, which the CDPA 1988 replaced, it was implied that the image had to be moving in nature before it was recorded.<sup>335</sup> If this were still the case the scope of audiovisual works would be substantially restricted, and it would *de facto* present severe difficulties to any attempt to fit multimedia works into the category of audiovisual works. Data, which are not a moving image and which cannot form a moving image even if one tries to record it as such, are any kind of still images, e.g. photographs, artistic works, diagrams, text or other.

In contrast to audiovisual works, multimedia products combine various types of works. This feature is a key element of their nature. Multimedia works are by

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<sup>334</sup> SNE, Livre Blanc du group audiovisuel et multimedia de l'édition, *op. cit.* note 2734; see also P Deprez and V Fauchoux, *op. cit.* note 139, at 48.

<sup>335</sup> See M Turner, *op. cit.* 5, at 108. The wording of the Copyright Act 1956 was that cinematographic works were «any sequence of visual images recorded on material of any description (whether translucent or not) so as to be capable, by the use of that material (a) of being shown as a moving picture, or (b) of being recorded on other material (whether translucent or not), by the use of which it can be shown.

definition complex creations,<sup>336</sup> composed of contributions of different types of works.<sup>337</sup> These contributions consist of works that are not restricted to a mode of adaptation and transformation in order to fit into the format of an audiovisual work, as is the case with audiovisual works and films. The wide and diverse range of individual creative contributions that a film incorporates consists not only of the labour of adapting the story and setting the scene of the film. Items such as script, acting, directing, filming, sound recording, responsibility for the make-up, clothing, lighting, music, properties and so on are also included in this.<sup>338</sup> These contributions do not necessarily consist of works, in the sense of intellectual property law. In other words they are not works which fall within one of the categories of intellectual property and are protected as such. They consist of technicalities, which do not possess any originality or creative character in the traditional sense. Indicative of this point is the fact that, although many people contribute to the production of a film or an audiovisual work, it is only to a few that the law grants the status of authors. It grants author status to those who have contributed actual works to the production of the film (e.g. the director, the author of the script or adaptation, etc.). Thus, the complexity of audiovisual works, when compared with that of multimedia works is qualitatively different. It is only the combination of image and sound in an audiovisual work which is comparable with a multimedia work. But, even here, it is apparent that legislation on audiovisual works has been designed to accommodate works combining only image and sound, whilst text or other data are either of secondary importance or are left out entirely.<sup>339</sup>

Even in those cases where something more than images is included in an audiovisual work, the number of works incorporated is always limited. Perhaps because of the technology available at the time of the drafting of the various

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<sup>336</sup> P Gautier, "*Les oeuvres multimédias en droit français*" (1994) RIDA 93.

<sup>337</sup> B Edelman, *op. cit.* note 316, at 110.

<sup>338</sup> See H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 365.

<sup>339</sup> I.e. in cases where text is included in the film it includes in most cases only the opening and

national laws, films were never thought of as capable of including more than two kinds of works, i.e. image and sound, together with some minimal amount of text (e.g. opening and closing titles). They were probably not thought capable of incorporating more than one kind of image, sound, or text. Even when such a three-element combination was made, no one would refer to vast numbers of works or amounts of data. The mere inclusion of works, other than the aforementioned, or the inclusion of data, for example numbers, where image was not a prevailing element (or which could not be presented as data), automatically made any lawyer exclude them from the definition of audiovisual works. The additional layer of content as such came within the definition of literary works or other categories of works, hence the difference between the contents of an audiovisual work and a multimedia product.

#### 6.5.1.2 'Image' as a prevalent element

One of the essential characteristics of audiovisual works that is contained in every single national definition is the presence of images. As we explained earlier, there is no express exclusion of other elements from the definition of audiovisual works. On the contrary, sound is also referred to as being potentially included. However, the prevailing element is always the image.<sup>340</sup> The requirement of the

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closing titles.

<sup>340</sup> Indeed A Lucas argues that even though the law does not specifically stipulate that an audiovisual work should consist exclusively of sequences of moving images, one would no doubt be stretching the meaning of the words unduly if one regarded a work that includes only a limited number of sequences of moving images as audiovisual works. In most cases the components of a multimedia work will be of a diverse nature and the work will miss the coherence that goes with a normal audiovisual work. Nevertheless putting such a work in the inappropriate straightjacket of the category of audiovisual works does not seem suitable. A Lucas, *op. cit.* note 320, at 145-146. See also A Lucas, "Les oeuvres multimédias en droit belge et en droit français" in C Doutreloup, P Van Binst and L Wilkin (eds), *Libertés, droits et réseaux dans la sociétés de l'information*, 1996, Bruylant, 55, at 67; H Bitan, "Les rapports de force entre la technologie du multimédia et le droit" (1996) *Gazette du Palais* (26.1.1996) 12; H Pasgrimaud, "La qualification juridique de la création

image as the dominant element in an audiovisual work pre-defines also the purpose of an audiovisual work. Audiovisual works are meant to be shown, either in public or privately. They are not meant to be read, as would be the case with literary works.

'Image' is a notion that is somehow larger than the notion of a 'picture'. The term 'picture' was found in the Copyright Act 1956, which was replaced by the CDPA 1988. It seems more difficult for the term 'picture' to include images, which are not derived from pictures as such, but from computer-generated devices, which can transform data into image, as would be the case for example with a computer programmed automatic puppet show<sup>341</sup> or a figure generated by a computer by putting bits and pieces of the image of well-known artists together and programming their moves. Thus, images do not have to stay unchanged from the traditional format in which they are found in conventional films. Apart from two-dimensional images, three-dimensional images, holograms and virtual reality shows are also covered. Images can also be produced by digitised pre-existing information and computer generated displays, such as the 'attract' mode of an arcade game (video game in which a moving picture is generated by computer).<sup>342</sup> The fact that the new technologies make these images far more diverse and complicated than the ones found in conventional films, as well as the fact that these kind of pictures are not usually found in films as we traditionally know them, should not affect the notion of the image as this notion is enshrined in the national definitions of audiovisual works.<sup>343</sup>

It follows logically from the above that the medium from which an image is produced or generated, and the support, linear or non-linear, on which it is reproduced and communicated, should not affect the notion of the image. For that very reason no special support or medium is required by the law. Images can either

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*multimédia: termes et arrière-pensées dans vrai-faux débat*" [1995] Gazette du Palais (11.10.1995); and B Edelman, *op. cit.* note 316.

<sup>341</sup> See H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 377.

<sup>342</sup> *Ibidem.*

be produced by filming, putting drawings ('cells') together (as in cartoons), or they can be computer-generated (as with the special effects in films such as 'The Day After', 'Independence Day' and 'Jurassic Park').

In the light of the above, any multimedia product in which (moving) images form the main element should qualify as an audiovisual work. However, in multimedia products, though they are expressed in an audiovisual way<sup>344</sup> and though they look like an audiovisual work, images are rarely the most important element.<sup>345</sup> This is especially so in cases where a multimedia work is the adaptation to an electronic format of an encyclopaedia or other work which was primarily fixed, or could be fixed on paper. In such a case one might wonder whether the transfer of a work from a paper support to a CD-ROM is a new mode of exploitation, where separate contracts, transfer of rights by the author and additional remuneration is required, or whether it is another use covered by the rights conferred by the initial contract. If it is the latter no separate transfer of rights and supplementary remuneration are required.<sup>346</sup> The view, which seems to be closer to the reality and needs of authors, is that digitisation is indeed a separate mode of exploitation usually known as electronic rights. This is also implied by the fact that 'electronic rights' of authors are not automatically transferred to publishers and producers unless they are precisely defined in the licensing contract. If they are not, any legal presumption works against their transfer and in favour of the authors.<sup>347</sup> An example of a multimedia product is an encyclopaedia, which is

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<sup>343</sup> See the thoughts of M Turner, *op. cit.* note 5, at 108.

<sup>344</sup> See M Linant de Bellefonds, Note under CA Paris, 16 May 1994, [1995] JCP, t.II, p.22375.

<sup>345</sup> The need to know which is the prevalent element in a work (or contents of a work) is not only dictated by the definition of the separate kinds of works themselves, but is also the essential/accessory test run by the courts in many countries in order to find the nature (essence) of a work. See B Edelman, *op. cit.* note 316, at 114, and note 44.

<sup>346</sup> See B Edelman, *op. cit.* note 316, at 115.

<sup>347</sup> Most continental systems seem to have a theory in *dubio pro autore* which means that the terms of any licence or assignment have to be interpreted restrictively and that in case of doubt the author is assumed only to have assigned the absolute minimum of rights that are necessary for the specific exploitation that was envisaged in the contract. This theory is also known in Germany as the

put on CD-ROM. Although the encyclopaedia is shown on the screen, the user simply reads it. Images are accessory, whilst text is the main element. Its transfer from paper onto CD-ROM should not alter the nature of the work, even if adaptations to match the new mode of exploitation are made, e.g. interactive retrieval and browsing of the information. Of course, separate licensing of rights is required as well as additional remuneration. In the Anglo-Saxon tradition this area is predominantly left to the contractual relationship between the parties. Very few, if any, statutory provisions regulate these issues.

However, does the existence of text or of text as a prevailing element, exclude these works from the notion of audiovisual works altogether? The attempt of various lawyers to include teletext and Minitel within the ambit of audiovisual works has only shown that in certain cases this should not be so. According to them, text shown on a screen performs the same task as an image. In this sense teletext is an audiovisual work.<sup>348</sup> Yet, this would confuse, if not discredit, the boundaries between audiovisual and literary works, and would unjustifiably place too much emphasis on the medium of communication, culminating in the medium defining the nature of the work, rather than the work itself. In addition, the qualification of works as audiovisual would no longer be possible, since in practice such a solution would lead to all kinds of works being placed indistinguishably in one copyright basket. If copyright is to be redefined this is definitely not the most appropriate way to go about it.<sup>349</sup>

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Zweckübertragungstheorie. (on its applicability in a multimedia context see J Kreile and D Westphal, "*Multimedia und das Filmbearbeitungsrecht*" [1996] GRUR 254, at 254). However, in Britain there is no such theory. On the contrary, it is fair to say that the presumption works the other way round. See G Vercken, *op. cit.* note 3, at 114.

<sup>348</sup> See also A Berenboom, *op. cit.* note 272, at 193.

<sup>349</sup> Even if in the future the various categories of copyright works are abolished, the regime of protection will have to be adapted to cover all needs. This is clearly not the case now.



### 6.5.1.3 'Sequence of moving images' and interactivity

#### 6.5.1.3.1 A *de minimis* rule

The inclusion of images as such does not suffice for a work to qualify as an audiovisual work. Most national laws require, expressly or impliedly, the existence of 'moving images'.<sup>350</sup> Yet, what each national law refers to or implies by 'moving images' is not immediately obvious. The notion of 'moving image' can be construed either narrowly or broadly. In either case a *de minimis* rule should be

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<sup>350</sup> The requirement of a 'moving image' is found in the national copyright acts in relation to films (i.e. UK), motion pictures (i.e. US) and cinematographic works (i.e. France and Germany), and not in the definition of audiovisual works as such (it exists in the preparatory works of the Belgian Commission of the Chambers of Justice in relation to audiovisual works, Report De Clerck, LDA. at 181). [In fact, the lack of this requirement in the definition of audiovisual works seem to be the distinctive line between audiovisual works and films.] Yet, since most countries provide only a single definition (e.g. Only for films or only for audiovisual works), they mean or use the aforementioned definitions interchangeably or by analogy (see for example the Greek Copyright Act which refers to films before their fixation as audiovisual works and after their first fixation as films). The fact that this analogy is very common in reality derives also from the Berne Convention, which assimilates all works using the process of cinematography or something analogous to it. Since, as we explained in the first section of this chapter, the category of audiovisual works is held to be the broader category which contains the rest, and since the most common sort of audiovisual works are cinematographic films, we will use the term audiovisual works and films interchangeably for the needs of this chapter. Moreover, we hold that the notion of moving images, wherever it is not expressly mentioned, (as it is for example in the British, US and French Copyright Act in relation to films and cinematographic works), is implied by the strong relationship of audiovisual works with the rest of the aforementioned categories. We also hold that the European definition of films, as this is enshrined in the rental and renting rights Directive (*op. cit.* note 265), and which refers to films as designating cinematographic, or audiovisual works or moving images, does not imply any essential or actual difference between the three. It only tries to encompass these cases where national laws might want to or do differentiate in relation to the scientific definitions they use for the aforementioned categories of works. However, this does not admit or legitimise such differentiations.

applied. A moving image is not just a changing image.<sup>351</sup> Nevertheless, despite the variety of definitions, there is at least a common link with the notion of motion. Is motion a recording of apparently identical images, which have, however, been recorded at different moments, or do the images themselves have to communicate or create the impression of some kind of movement? If the second option is adopted then even when images are filmed with a traditional filming technique, if the average person cannot see with his bare eye that movement exists, the moving images, though moving in reality are not held to be 'moving' for the purposes of the law. However, such a solution would disregard the essential criterion that is contained in the Berne Convention, namely the use of cinematography or a technique analogous to cinematography. If the first option is adopted then we could argue that the recording process is sufficient to qualify a work as an audiovisual work. It may not communicate movement in all instances but at least the potential for movement is there. A straightforward example is that of a plant, which grows extremely slowly. Even if a single picture is taken every hour over a period of three months, once projected as a film at a speed of 24 pictures *per second* little or no movement may be visible. Nevertheless this is an audiovisual work due to the technique used and scientifically speaking there is constant movement even if this is not readily perceived. An even more extreme example is found in a shot of a desert landscape, which is used to create a certain atmosphere. A one minute shot may continue to offer the viewer exactly the same view of the landscape. Nevertheless due to the use of the cinematographic technique and its potential for movement this is also an audiovisual work.<sup>352</sup>

Fixed frames or still images alone are excluded altogether.<sup>353</sup> A sequence of

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<sup>351</sup> M Turner, *op. cit.* note 5, at 108.

<sup>352</sup> As will be seen later the particular technique that is used to reproduce images is not of primary importance. What is, however, of importance is the content of the product and the fact that a certain type of recording has been made. For example, the shooting of pixels onto a television screen does not define the type of work. A photograph can be reproduced in that way onto a screen, and so can a text. What counts here is the process of recording, as well as the content of the recording.

<sup>353</sup> A series of archive photographs should not fall within the category of audiovisual works. A

fixed frames sewn together (sequence of images inanimée) should also be excluded.<sup>354</sup> Berenboom alleges that the latter should not be the case as long as these fixed frames have undergone a montage which allows them to unfold in such a way as to create the impression of motion.<sup>355</sup> In his view a succession of fixed frames should qualify as an audiovisual work, and he refers as an example to the film of Chris Marker, 'La jetée'. His view comes very close to confusing the boundaries between artistic works and audiovisual works. If the notion of moving images is so broadly construed and approached, then there is nothing essentially different between the viewing of an artistic work and the viewing of a series of moving images on a screen. In this case the unfolding (the technical French term is «déroulement») of these images can no longer be distinguished from one's tour in an exhibition or even from turning over the pages of a book if these images or pictures are found in a conventional book.<sup>356</sup> In this sense a multimedia work containing fixed frames, which can be retrieved and browsed through according to the needs and commands of the user, and which do not impart an impression of motion or a continuous impression of motion occupying the greater part of their contents, cannot qualify as an audiovisual work. They come closer to literary works, databases or artistic works.

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Strowel - J P Triaille, *op. cit.* note 24, at 360.

<sup>354</sup> See also B Edelman, *op. cit.* note 316, at 114. See contra A Strowel and J P Triaille, in relation to a series of slides, which according to their view qualify as an audiovisual work, *op. cit.* note 24, at 360. We hold the opposite view, similar with the one shared by J Corbet, *op. cit.* note 116, at 38 and the Belgian Association of Copyright, oral process of 2<sup>nd</sup> April 1992 on audiovisual works. D Nimmer (Nimmer on Copyright) holds that although a show of slides qualifies as an audiovisual work, under the US Copyright Act, it does not qualify as a film because it fails to confer the impression of movement to the viewer, 1995, vol. 1, §2.09 [C].

<sup>355</sup> A Berenboom, *op. cit.* note 272, at 193.

<sup>356</sup> Especially in the case of an encyclopaedia; see also B Edelman, *op. cit.* note 316.

### 6.5.1.3.2 Two ways of construing the notion of 'moving images'

If the *de minimis* rule is applied ruling out fixed frames altogether, a broader view is the French one. According to this view, the images have to be related to and linked to each other, in such a way that they can unfold, subject to a scenario for example.<sup>357</sup> By 'related to' and 'linked to each other' one does not mean that the images have to be relevant only to each other, or just follow one another in a logical sequence. They have to be sewn together in such a way that even if they are not 'moving images' right from the start, e.g. filmed as moving images or computer generated as such, they can at least impart the impression of motion to their viewer, when they are communicated.<sup>358</sup> Thus, it is submitted that it is the sequence of images that should be recorded and not just the visual images.<sup>359</sup> The sequence of images when combined with the other ingredients of a film should be capable of producing a moving picture in a 'fluent movement'. Yet, the degree of that fluency is a question of fact, subject to the judgment and discretion of the judge. It is alleged, though, that this 'fluent movement' can even derive from pictures taken in a rapid sequence (e.g. by still cameras in motor races capturing almost every second of action), if the gaps between them are small enough.<sup>360</sup> In this case «the resulting spool might satisfy the definition of 'cinematograph film' even though the photographer was using neither a cine camera as commonly understood nor had any intention of making a moving picture»<sup>361 362</sup>.

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<sup>357</sup> Livre blanc, *op. cit.* note 273, at 20.

<sup>358</sup> This is also the American view. See § 101 US Copyright Act, under the entry 'moving pictures'. From a British perspective it could be argued that s.5B(1) CDPA 1988 is wide enough in scope to include this possibility.

<sup>359</sup> H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 385-6.

<sup>360</sup> Even if the gaps are not small enough, in the way they have been described in the text, a reasonably fluent picture might still be produced if the subject was moving slowly enough, e.g. the filming of a germinating seed with a slow cine camera which is then speeded up for display. *Ibidem*, at 386.

<sup>361</sup> H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 385-6.

<sup>362</sup> Under German copyright law a 'sequence of moving images' is interpreted as a series of images

If the notion of 'moving images' is construed narrowly, one could argue that what the law is really looking for are actual moving images and in certain cases, perhaps, images that are moving before they are recorded as films. Under British law this is particularly so after the replacement of the definition of films in the Copyright Act 1956 by that of the CDPA 1988. Under the former one could perhaps have assumed that the moving image had to exist before it was recorded,<sup>363</sup> but the CDPA no longer requires the pre-existence of the 'moving image'. An actual moving image can be an image taken by a cine camera, generated by a computer so as to be in motion. Yet, this narrow legal approach would leave out of the scope of the law the individual drawings (cells) included in cartoon films, which world-wide are held to qualify as films.<sup>364</sup> It is true however that these are held to qualify as films after they are collected, put in sequence and recorded on any medium (not only on pellicule) in such a way that motion can arise<sup>365</sup>.

If the first view is adopted it may be easier to fit multimedia works into the category of audiovisual works and films. These are clearly not images that already move before they are recorded but one could assume that most multimedia works introduce some kind of impression of movement. This becomes clear when one looks at an even more radical approach which requires an audiovisual work to be just a series of related images which are intrinsically intended to be shown by the use of machines.<sup>366</sup> Most multimedia works could indeed be said to contain a series of related images and the issue of movement is more or less side-stepped. It

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and sounds that create the impression of moving images. See G Schricker, Urheberrecht, Kommentar, Verlag C.H. Beck, München, 1987, at 1002; 2nd ed., 1999, at 1371; and W Nordemann, K Vinck and P Hertin, Urheberrecht, Kohlhammer, 1994, at 523.

<sup>363</sup> M Turner, *op. cit.* note 5, at 108.

<sup>364</sup> See G Koumantos, *op. cit.* note 99, at 123.

<sup>365</sup> H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 378.

<sup>366</sup> See for example section 101 of the US Copyright Act 1986. A similar approach is adopted under Spanish and Dutch copyright law. See also A Esteve, "Das Multimedialwerk in der spanischen Gesetzgebung" [1998] GRUR Int. 1.

is submitted though that whichever approach is adopted, multimedia works do not fit in well with the category of audiovisual works and that each link remains artificial.<sup>367</sup>

#### 6.5.1.3.3 'Sequence of moving images' and interactivity

We should examine at this stage, what the element is that the requirement of 'sequence' adds<sup>368</sup> to that of 'moving images'. It is clear that 'moving images' might be present in a work without necessarily forming a sequence or else a unity. Fragments of films, cartoons, documentaries, frames in motion such as the one described earlier in relation to motor races or sprinting; these alone do not allow a work to qualify as an audiovisual work or a film. A characteristic example of such a case is a collection of fragments of films shown in the '80s and '90s. This encyclopaedia of films does not present a unity in the sense that the notion of a film requires.<sup>369</sup> Rather it comes within the ambit of a database, as this is defined in the EU Directive.<sup>370</sup> The moving pictures included in a film have to be coherent and united in serving one particular project, plot, scenario or otherwise. Simple

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<sup>367</sup> T Desurmont, "*L'exercice des droits en ce qui concerne les 'productions multimédias'*" in WIPO international forum on the exercise and management of copyright and neighbouring rights in the face of the challenges of digital technology, Sevilla, Spain, 1997, 169, at 176.

<sup>368</sup> The CDPA 1988 does not contain this element *expressis verbis*. We analyse later in the text whether it nevertheless forms part of the concept that is contained in the Act.

<sup>369</sup> According to W Cornish a digital encyclopaedia, which does not produce moving images, does not fit within the definition of films, *op. cit.* note 125, at 465-466.

<sup>370</sup> There is, of course, a part of the literature that would consider such a collection of works as being an audiovisual work. Yet, if this kind of collection qualifies as an audiovisual work, it cannot qualify as a database at the same time, because, as Laddie has pointed out, (and it seems logical), different categories of works are intended to accommodate different (and mutually excluding) kinds of works. In addition to that, in those national laws where the notions of databases have been placed under the wider umbrella of literary works, there is one more argument against the parallel protection of a work as an audiovisual work and as a literary work. These two categories of works are not only logically exclusive, but also expressly mutually exclusive from a legal point of view.

audiovisual 'touches', or 'spreads' of fragments of moving images are not covered.<sup>371</sup> According to Edelman,<sup>372</sup> if we have a collection of fragments of audiovisual works, without these works co-existing in a legal sequence or coherence (*sans queue ni tête*), it is not an audiovisual work we are dealing with but a collection of citations. The regime of protection for audiovisual works should not apply. In this case the resemblance comes closer to literary works, databases or the reading of a book than to the performance/showing of a film.

What is not clear at this point is whether the sequence of moving images which is required should be uninterrupted or not. In some national laws, interactivity in relation to conventional films was an unknown concept. Films were traditionally designed and produced subject to a linear form, inextricably linked with and dependent on the unfolding of images that were sewn together, so as to produce the effect of continuous motion. In other words, the viewer who was seeing the film, was a passive receiver, whose task was no more than to watch the 'story' from the beginning to the end. The notion of interactivity, which is embedded in multimedia works, is by definition contradictory to any uninterrupted linear unfolding of sequence of images, favouring a dialogue between the user and the system and the interference by the former with the latter according to his needs and choices.<sup>373</sup>

Nevertheless, this conclusion or observation is not watertight. There is also a part of the literature which contends that interactivity is not a notion completely

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<sup>371</sup> According to M Turner, *op. cit.* note 5, at 108, the requirement of 'moving images' in the British definition of films «obviously covers some of the displays that may be produced on screen by a multimedia product». Yet, he finds it doubtful whether it covers animation, the different levels of compression below full motion video, screen scrolling and all other movements that are generated on screen.

<sup>372</sup> « An audiovisual work can only be protected if it exists as a work. This means that it needs to have a certain degree of coherence in the sense that the sequences of images need to form a certain unit », B Edelman, *op. cit.* note 316, at 114.

<sup>373</sup> P Deprez and V Fauchoux refer to interactivity as «la négation du déroulement linéaire, au profit d'accès commandés par l'utilisateur», *op. cit.* note 139, at 48.

alien to the area of audiovisual works and films. Films in their first expression did not possess any interactivity at all. But later, slow or quick motion commands became available, as well as freeze frame, scanning, time shifting<sup>374</sup> and other options. The choose-your-own-end films, which appeared on the market at the time, offered a better example of a primitive form of interactivity. The viewer does not only have a passive role (i.e. viewing the film only in the way it is presented). He intervenes and pre-determines the end of the film by selecting from the choices available. Yet, the aforementioned commands which were available to viewers of films were not commands inherent in the notion of films. They were essentially commands made available by machines, such as video cassette players, which could manipulate the image to a certain extent. (Films are not structured to serve such purposes. They are not structured in fragments so that their contents can be accessed independently). These commands are referred to by Choe<sup>375</sup> as the first sperm of interactivity, or manual interactivity, and should be distinguished from the film itself, which presents no interactive options whatsoever. In addition manual interactivity was not only a primitive form of the actual interactivity that modern multimedia products present, but it was so basic and limited that it is qualitatively different from the one possessed by multimedia products today. It did not allow for any substantial dialogue between the viewer and the film, only for the exercise of certain primitive commands. These commands in no way turned the passive viewer into an active user and manipulator. Although they presented certain options, impinging on the development (stopping and starting) of the picture, in no way did they offer the ability to manipulate and reconstruct the image itself.

In the case of choose-your-own-end films, the viewer is not afforded any substantial degree of action. He is not allowed to 'enter' the image itself and transform it. What he is allowed to do though is to interfere with the sequence of images presented to him. This has only little to do with interactivity, since

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<sup>374</sup> Recording of a film so that it can be viewed at a later more convenient time by the viewer.

<sup>375</sup> J Choe, *op. cit.* note 45, at 935.



changing the sequence of images is only one of the interactive possibilities, and a very basic one at that. The case of choose-your-own-end films can be compared with those of video games. Video games, which allow for the intervention of the player and thus allow for a degree of interactivity, were found in many jurisdictions to qualify as audiovisual works.<sup>376</sup> Specifically, in *Midway Mfg. Co. v. Artic International, Inc.*, the American Court held that even if the sequence of images varies after any new use of the game by the player, the notion of 'a series of related images', as this is referred to in §101 of the US Copyright Act is still not affected. The work still possesses a certain unity, which is enough to allow the work to qualify as an audiovisual work.

The element of interactivity which video games possess is more advanced than the one possessed by the choose-your-own-end films. But it is more limited in degree. It allows for no more than just a variation in the presentation of the sequence of the set of images which are included in these works. The user restricts his options in choosing option A, B or C. In fact A, B or C follow automatically after a first choice of action is made by the user/player. Nevertheless, this kind of interactivity has not reached those levels which are usually possessed by multimedia works, where the user has even more active and creative roles.<sup>377</sup> One such example is a palette where colours and designs are offered to the user with which he can reconstruct or create from scratch. Another is where various

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<sup>376</sup> Cass. Ass. Plen., 7 mars 1986, [1986] D. 405, concl. Cabannes, note B Edelman; *Atari c. Valadon*, TGI Paris, 8 dec. 1982, Expertises 1983 no 48, p.31(France). *Atari games Corp. v. Oman*, 888 F.2d 878 (D.C. Cir. 1989) and 979 F.2d 242 (D.C. Cir. 1992); 964 F.2d 965 (9<sup>th</sup> Cir.1992), 115 S. Ct. 85 (1994); *Computer Associates International, Inc. v. Altai, Inc.*, 982 F.2d 693, 703 (2<sup>nd</sup> Cir.1992); *Stern Electronics, Inc., v. Kaufman*, 669 F.2d 852, 855-856 (2d Cir. 1982); *Williams Electronics, Inc., v. Artic International, Inc.*, 685 F.2d 870, 874 (3d Cir. 1982); *Midway Mfg. Co. v. Strohon*, 564 F. Supp. 741, 746 (N.D. Ill., 1983; *Midway Mfg Co. v. Artic International Inc.*, 704 F.2d 1009, 1011 (7<sup>th</sup> Cir. 1983) (USA). *Pac Man decision*, as referred to in [1984] EIPR, at D-226 (Japan). *Nintendo c. Horelec*, Court of First Instance, Brussels, 12 dec. 1995, [1996] I.R.D.I. 89 (Belgium). *Amiga club decision*, Oberlandesgericht Köln, 18.10.91, [1992] GRUR 312 (Germany). The case of video games will be considered later in chapter VIII.

<sup>377</sup> The Green Paper also requires a minimum degree of interactivity, *op. cit.* note 32, at 19.

possibilities are offered for musical composition by adding melodies, changing keys or missing out instruments in an orchestra, and so on. This kind of result is often reached through the use of techniques such as morphing and blurring. In these cases the intervention of the user exceeds the level of options and reaches level of reconstruction or simply new unpredicted creation.<sup>378</sup> In this context, it is difficult to understand how any sequence of moving images can be maintained.<sup>379</sup>

There is a serious argument that with regard to the definition of moving images, for example, UK law has been construed widely enough to encompass any notion of interactivity, especially in view of the lack of any precise prerequisite of 'sequence of moving images'. However, this argument looks weak in view of the practical reality as presented above. It seems that these moving pictures should exist in a sequence, or at least in some sort of coherent unit. Even if that requirement is not mentioned expressly in the law, it must purposively be derived from it, especially if it is referred to in relation to the notion of a film, which represents a certain form in our minds. This, of course, does not mean that this form is not subject to evolution. Yet, we all know that the excessive stretching of certain notions and categories, as well as the departure from the historical interpretation of a certain provision creates problems and presents gaps in the laws of the states. Most laws have been designed to accommodate certain forms of works and rarely others which could not have been foreseen at the time. In this case interactivity and especially 'reconstructive' creative interactivity cannot easily co-exist with this idea of unified moving pictures.<sup>380</sup> Nevertheless we should not

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<sup>378</sup> Always in the context of the choices offered, which, can however be great enough to render the outcome unpredictable.

<sup>379</sup> Yet, it always remains open to discussion whether video games are a separate category of works. or whether they are multimedia products. In the latter case they can still be considered to require a separate protection from that afforded to other multimedia products.

<sup>380</sup> H Schack argues that the advanced form of interactivity that is found in modern multimedia works means that a multimedia work can no longer be considered to be similar to a film. H Schack, Urheber- und Urhebervertragsrecht, Mohr Siebeck, 1997, at 101. Contra T Desurmont, *op. cit.* note 367, at 176.

ignore the tendencies derived from the example of video games, especially if these are held to be a kind of multimedia work. In the judgments referring to them it was not perhaps the actual nature of video games that gave rise to these decisions as much as their expression, appearance and need for protection.<sup>381</sup> This must have seemed appealing and must have come as a relief to the national judges who found themselves facing a gap in the law. Video games, of course, is a case which we will consider separately.

#### 6.5.1.3.4 Concluding remarks

It is submitted that, despite all the apparent similarities, the concept of moving images creates serious problems concerning the classification of multimedia products as films or audiovisual works. The apparent similarities are over-emphasised by the common use of the technique of projecting images onto a television screen in the form of pixels and by the fact that in both cases some form of movement or activity seems to be involved. As section 5B CDPA 1988 makes clear, the particular technique used to reproduce the moving images is not important. The essential element is found in the substance of the work, in the images that are projected onto the screen. It is submitted that these images are different, rather than similar in nature.

Let us return to section 5B CDPA 1988 for films. The essence of a film is that moving images are reproduced. The moving nature of the images is the crucial element. Sound can be an interesting addition, but it is not even necessary, let alone required. The essential element of moving images involves in some way the concept of a predefined sequence of images. The sequence of images creates the

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<sup>381</sup> See in this respect A Bertrand, *Le droit d'auteur et les droits voisins*, Masson, 1991, at 509. *Ibid.* "La protection des jeux video", Expertises 1983, no 56, at 230; and B Edelman, *op. cit.* note 316, at 110, where he alleges that a «multimedia work is characterised on the one hand, by the intervention of a computer program that allows for interactivity and on the other hand by an audiovisual expression». This audiovisual expression seems to have prevailed in the judgments of the judges before whom the video games cases came.

movement and it has been defined in advance by the makers of the film. The user gives one command and is then presented with a sequence of many images. This sequence may be the whole film or a rather limited section of it. In the latter case the viewer is invited to introduce a new command to release a new sequence of images. The content of the latter sequence may be influenced by the specific command given by the viewer. A limited and primitive form of interactivity is possible, but that interactivity leads only to the release of pre-defined sequences of moving images.

Multimedia presents a different picture. A variety of images are projected onto a television or computer screen. Still images, such as photographs and text are combined with moving images.<sup>382</sup> The images as such, and especially the moving images, are not the essence of a multimedia product. Not only are non-moving images involved, the sound element is also of equal importance to the final product. The essential aspect of a multimedia product is found in the combination and in the integration of the various expressions. That integration leads to an advanced form of interactivity which allows the user to create his own version of the work while using it. The user picks and chooses from a wide variety of elements, expressed in different media, to make for example his own tour of the ancient Greek cultural heritage, as it is found in the various museums in Greece. Often the use of the multimedia product will involve a certain form of movement and at the very least, movement from one screen to another will create an impression of movement. However that movement is often not based on recorded 'moving' images that are reproduced from the recording, but on the interaction of the user with the various materials that are made available to him for interaction. Looked at in this way the similarity is rather with a set of (un-)related photographs that can always be stitched together and shown at a rate of 24 photographs *per second* to create an impression of movement. We are trying to define the nature of the product that allows for interactivity. In this context we must return in our

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<sup>382</sup> According to D Cameron multimedia works are not films since they essentially contain text rather than images. "*Approaches to the problems of multimedia*" [1996] 3 EIPR 115, at 116.

example to the individual photographs. They remain photographs in nature. Any subsequent use cannot change that, even if such use can lead to the creation of an additional work. It is therefore submitted that a multimedia product should not be classified as a film simply because its use would allow the user to create a sequence of moving images that could qualify as a film. The essence of the multimedia work lies in the element of interactivity. It does not have to be a recording that is made in such a technical way the first time round for moving images to necessarily result from its normal intended use. It could rather be seen as a set of elements and data, a database in its non-legal sense, that is combined with software that allows for a sophisticated form of interactivity.

#### 6.5.1.4 Fixation/Recording

Fixation or recording, as this is provided for in the national laws on audiovisual works and films, would not be a hurdle, if multimedia products were to qualify as audiovisual works. Under section 5B of the CDPA 1988, the notion of films has been drafted very widely in relation to the medium on which a work can be fixed. Almost any recording falls within this definition. Some examples are films carried on celluloid, filmstock, print, negative, magnetic tape, videotape films, recordings on laser discs, CD-ROMs, DVDs and in computer memories. Thus, copyright in relation to films is not tied to any particular technology.<sup>383</sup> In the light of this, although multimedia products are always put in a digitised format, whilst films are communicated or transmitted in an analogue format, this differentiation is one made *de facto* and not derived from the wording or the spirit of the law and thus does not affect the law. Whether digitisation is included within the definition of films or not in relation to their recording, is not a contested issue. According to the record of the discussions at the time of the introduction of this law, it was stated in the House of Lords<sup>384</sup> that the definition of films was intended

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<sup>383</sup> H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 377.

<sup>384</sup> Hansard 16 February 1956, cols 1085-6.

to include recording on magnetic tape, but that since it was impossible to foresee what new technologies for recording and presenting moving pictures might arise in the future, the object of the definition was to avoid tying the definition to any particular sort of fixation.<sup>385</sup> No specific method of recording is required. Thus, according to Turner, «digitisation is clearly a reproductive process analogous to older processes such as Braille and Morse code in reducing creative work into a binary form».<sup>386</sup> In relation to the medium required, he mentions that «neither the medium from which the moving image is produced, nor the means of producing the image are of relevance [to a film] and can therefore clearly include a CD or other formats of multimedia products just as much as it does celluloid or video tape».<sup>387</sup>

In addition to that, one can contend that the medium on which a work has been recorded, (either originally or derivatively), should also not affect the nature of the work, if, of course, the work has been fixed or transferred onto the new medium without any substantial modifications, adaptations or alterations to it.<sup>388</sup>

Thus, if multimedia products were to qualify as audiovisual works, the fact that they are in a digitised format, capable of being manipulated by the user with the aid of a computer, and the fact that they are communicated to third parties through both material and non-material media, does not contradict the notion of fixed audiovisual works as found in the CDPA or other national Copyright Acts, and consequently does not create any definitional problems.<sup>389</sup>

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<sup>385</sup> H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 374, 383.

<sup>386</sup> M Turner, *op. cit.* note 5, at 108.

<sup>387</sup> *Ibidem.*

<sup>388</sup> P Gautier, *op. cit.* note 336, [1994] RIDA 99; and B Edelman, *op. cit.* note 316, at 114, and at 110, where he contends that the concept of the 'document' ..., or that of the 'support', should not be decisive in the characterisation of a work.

<sup>389</sup> See also W Cornish, *op. cit.* note 125, at 465.

### 6.5.2 The possibility of cumulative protection

A decision by Laddie J. regarding a company memo dealt with the dilemma of whether this memo, which contained both text and graphics, could qualify at the same time as a literary and an artistic work.<sup>390</sup> It would be hard for one to imagine that a single work would qualify for more than one category of work at the same time, when it is supposed that the classification of categories of works is made in the first place because each of them represent different and distinguishable kinds of works.<sup>391</sup> This is also the very reason why every separate category of work is governed by different rules. If the nature of the work were to overlap with another category, any differentiation in protection would be meaningless. In the decision at issue Laddie J. held the same view. In fact he contended that the particular work could either be a literary or an artistic work. Since elements of both were included, the author had the right to separate the memo into a literary and an artistic work and pursue separate protection for each one of them. Alternatively he could be afforded the protection of the category of work, the element of which was most prevalent in the memo, e.g. if it were text, the work should qualify as a literary

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<sup>390</sup> *Electronic Techniques (Anglia) Ltd v. Critchley Components Ltd* [1997] FSR 401. «However, although different copyright can protect simultaneously a particular product and an author can produce more than one copyright work during the course of a single episode of creative effort, for example a competent musician may write the words and the music for a song at the same time, it is quite another thing to say that a single piece of work by an author gives rise to two or more copyrights in respect of the same creative effort. In some cases the borderline between one category of copyright and another may be difficult to define, but that does not justify giving the author protection in both categories. The categories of copyright work are, to some extent, arbitrarily defined. In the case of a borderline work, I think there are compelling arguments that the author must be confined to one or other of the possible categories. The proper category is that which most nearly suits the characteristics of the work in issue». See also *Anacon Corporation Ltd v. Environmental Research Technology Ltd* [1994] FSR 659, per Jacob J.

<sup>391</sup> See the Sirinelli Report, at 58, where it is argued that protection for a single multimedia work both as an audiovisual work and as a database would lead to incompatible solutions because of the different rules that apply to each one of these categories.

work, or if designs as an artistic work, etc.

This solution is more persuasive when the law expressly excludes cumulative qualifications of works. For example, in section 3(1) a literary work is held to mean any work, *other than* a dramatic or musical work, which is written, spoken or sung. Yet, in the case of video games this line of thought has not been followed, since we have had cases where video games qualified as both audiovisual works and computer programs. These two qualifications probably co-existed for different parts of the same work, i.e. the part where moving images were included qualified as an audiovisual work and the structure of the system operating these moving images qualified as a computer program. This seems to happen when one category of work is not broad/wide enough to cover the whole scope of a new work adequately, as was the case for example with video games and might well be with multimedia works. Is it advisable in such cases to look for a cumulative definition, or to simply recognise the inefficiency of the particular categories to cover the needs of the new products?

In some countries the problem that it should in no case be an overlap between the various categories of copyright works does not exist. In general terms those countries that have a general category of copyright works do not find it necessary to put a work in one single category. For those countries there is no urgent need that a work should go in one of the specialist categories in order to attract protection and that seems to bring with it an attitude which also relaxes the requirement that a work can only go in one category.

Returning to the CDPA 1988 system, it would, perhaps, be more politically and theoretically correct, if we want to keep the distinctions between the different types of works and the boundaries which serve for the maintenance of these distinctions in place, to introduce new legislation, directly and exclusively applicable to the new category of works, in the same way that the database legislation has been introduced by the EU.<sup>392</sup> The repercussions of the failure to

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<sup>392</sup> Still of course distinguishable parts which form works on their own merits, e.g. a database and its operating computer program, should be distinguished and be treated as separate works for the



introduce legislation appropriate to the new technology will be felt in the market and in the intellectual property and cultural industries of the various countries by complicating legal issues and confusing the question of what is the appropriate regime of protection. Different solutions in the various states can only cause bewilderment in the international market.

It should in this respect be noted that the strict separation between the various categories of copyright works, which is accepted under English law, does not necessarily apply in continental legal systems or in the US.<sup>393</sup>

### 6.5.3 Summing up

Multimedia products are not *de jure* audiovisual works<sup>394, 395</sup>. First, moving images are rarely the prevailing element in a multimedia work. Multimedia works combine different types of works, and it is usually either text or still images which are their major element. Moreover, their purpose is not to be shown in public, and consequently be watched by viewers. They are meant to be communicated to private individuals and are not intended to be viewed by a larger public. This is so since the general task of a multimedia work is to allow a dialogue between the system and the user. This dialogue, of course, presupposes the element of

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purpose of copyright.

<sup>393</sup> J Ginsburg alleges that in the US multimedia works maybe considered either an audiovisual work or a compilation or both. It is interesting to note that the US does not seem to draw strict borderlines between the various categories of copyright works. “*Domestic and international copyright issues implicated in the compilation of a multimedia product*” (1995) 25 Seton Hall Law Review 1397, at 1399. See also A Strowel and J-P Triaille, *op. cit.* note 24, at 366.

<sup>394</sup> See also the doubts expressed by J Kreile and D Westphal, “*Multimedia und das Filmbearbeitungsrecht*” [1996] GRUR 254, at 255.

<sup>395</sup> B Edelman, *op. cit.* note 316, at 114; and M Turner, *op. cit.* note 5, at 109 who contends that, perhaps, multimedia products will be squeezed into the films definition on a case-by-case basis. This approach also receives support from B Wittweiler, *op. cit.* note 32, at 9; and see also F Koch, “*Software – Urheberrechtsschutz für Multimedia – Anwendungen*” [1995] GRUR 459, at 463. With regard to difficult cases, there is always the risk that these cases might make bad multimedia law.

interactivity, which as such is a negation of any continuous sequence of images, linked together and constituting a unity. Fragments of sequences of moving images alone do not allow a work to qualify as a film or an audiovisual work. This becomes more apparent if one looks into the terminology used in the area of multimedia and that used in audiovisual works. A multimedia work is supposed to be read, watched and heard, and also to be used at the same time, while a film is simply to be watched. The person receiving the information in the first case is a user, with an active role, and even on occasions a creative one, whilst in the second he is a passive viewer. The notion of interactivity is altogether absent in audiovisual works or films, whilst it is a vital component in multimedia. All the above, of course, do not preclude the case where a film can be designed and fixed as a multimedia work. If that occurs, of course, all the components of a film are present and the work should qualify as an audiovisual work. The existence or not of the interactivity element should then be assessed on its own merits. If the work has been designed in order to produce moving images, then this lets it stand out from the normal multimedia case in which the essence is not moving images, but interactivity.

## **6.6 Multimedia products and the regime of protection of audiovisual works**

Since we came to the conclusion that multimedia works are not *stricto sensu* audiovisual works, we should examine whether they might come within the scope of protection of audiovisual works by reason of analogy. Often the real question is not simply what a new product, such as multimedia, is, but also what we need to protect and how we want to protect it. There would of course be no reason for analogous application of the regime of protection to multimedia works (which has then to apply as it is (*in toto*)), if we did not first examine whether this regime of protection is capable of accommodating the needs of these products. This section sets out to do exactly that.

The first obvious point of dispute is whether a multimedia work can fit in with the specific legal requirement that an audiovisual work necessarily involves contributions by many persons. For example, in French law an audiovisual work is *de jure* a collaborative work.<sup>396</sup>

If we take into account the way a multimedia work is produced and distributed we can easily come to the conclusion that the classification as a collaborative work will in most cases not be convenient. Although in the production of a multimedia work many persons are required to collaborate and join forces and expertise in a concerted effort, it will very often be the case that there will not be a new creation developed for the production of a multimedia work. We will rather be confronted with the incorporation of pre-existing materials without the collaboration of their authors, as is the case with composite works. Moreover, in many cases the whole initiative for the production of a multimedia work will be taken by one person (entrepreneur) or a legal entity which usually possesses the means to manufacture works requiring large investments. In this case the persons participating in the production of a multimedia work will either be other companies or employees of these companies.

According to Edelman,<sup>397</sup> multimedia products will in most cases be collective works, if they do not qualify as audiovisual works, whilst the qualification of collaborative or composite works will only be residual.<sup>398</sup> This approach favours the entrepreneurs, since it puts the emphasis on the way the multimedia work has been constructed and on the financing and control of the whole project.<sup>399</sup> One should also take into account the means by which these products are distributed. This is done mainly through third companies, rather than through the initiator of the project. Often these third companies are computer

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<sup>396</sup> Article L113-7 of the French Copyright Act.

<sup>397</sup> B Edelman, *op. cit.* note 316, at 114.

<sup>398</sup> See also de Werra, "Les multimédias en droit d'auteur" [1995] *Revue Suisse de la Propriété Intellectuelle* 237, at 243-244.

<sup>399</sup> A Lucas, "Droit d'auteur et Multimedia" in Propriétés intellectuelles, mélanges en l'honneur de André Françon, Dalloz, 1995, at 325.

manufacturing companies, which put their brand name on the product so that they can push the sales up and distribute them in computer shops and bookshops in the same way software and books are distributed. This form of marketing and distribution is very different from the one used for films and audiovisual works bringing it closer to the system used for books and literary works rather than to the one used for audiovisual works.

What is characteristic in the definition of collective works is that it is one person, either a person or a legal entity, who directs the whole project.<sup>400</sup> This description seems to be a convenient one in relation to financially big projects involving many works. Legal entities will in most cases be the ones to undertake big investments by reason of their ability to match the financial needs of such projects to the needs of specialised and qualified personnel and the need for technological equipment. They are better placed to risk commercial failure. For this reason legal presumptions of transfer of rights in favour of these persons have been put in place.

In addition most special national regimes for audiovisual works or films give the status of authors to certain contributors. In most legal regimes one can add to that list and the status of author should not necessarily be given to all of them. For example, in the French and Belgian jurisdictions, the author of the screenplay, the author of the adaptation, the author of the words, the graphical author in the case of animated works and the author of musical compositions with or without words specifically composed for the work, have all been designated as the presumed authors of the audiovisual work together with the principal director.<sup>401</sup> Proof to the contrary can be adduced.

First of all, the existing list of presumptive authors does not suit most multimedia works.<sup>402</sup> There may not necessarily be an author of an adaptation or of

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<sup>400</sup> In contrast with collaborative and composite works.

<sup>401</sup> Article L113-7 of the French Copyright Act and art.14 of the Belgian Copyright Act.

<sup>402</sup> See also Livre Blanc du Groupe Audiovisuel et Multimédia de l'Édition, *op. cit.* 273, at 21 where it is also argued that most provisions that relate specifically to audiovisual works are not easily transposed to multimedia works.

the words, but there may be other significant contributors such as the photographer in the case of a multimedia work that is based on an encyclopaedia of modern photography, and the designer of the operating software of the multimedia product<sup>403</sup>. Secondly, it is undesirable that in most multimedia cases the standard presumption needs to be overturned, and that specific proof of that needs to be adduced. The overturning of the presumption should not be an easy task and should be reserved for exceptional cases.<sup>404</sup> If multimedia works are put in this category the overturning of the presumption will become the rule rather than the exception. Thirdly, even in those systems where authorship of a film is given to the producer and the principal director, problems might arise as to which contributor needs to be identified as the principal director of a multimedia product. Multimedia works are produced in a different way. There may not be an obvious equivalent to the producer and the director of a film<sup>405</sup>.<sup>406</sup> Fourthly, the aim of the presumptive list of contributors of audiovisual works is to arrive at a manageable number of authors for each work. Whilst this may well work for audiovisual works in the sense that the main contributors are identified and they are few in number, this is not necessarily the case for a multimedia work where the role of each contributor on the list may be fulfilled by many persons. This could result in a vast number of persons being presumed authors. In that way the workable nature of the rule is destroyed. Sirinelli suggests an alternative approach. In his view one might

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<sup>403</sup> A Lucas questions whether the list of co-operators for a film, especially the more extensive list used in French law rather than the restrictive one used in English law, is suitable for multimedia works since it is not obvious that all authors of the latter are necessarily linked to the creative process. A Lucas, *op. cit.* note 320, at 149.

<sup>404</sup> In most cases it may not even be legally possible to overturn these presumptions. See T Desurmont, *op. cit.* note 367, at 179 ; C Colombet, Grands principes du droit d'auteur et les droits voisins dans le monde, approche de droit comparé, 2nd ed., LITEC, 1992, at 31 ; and A Bercovitz, "La Titularité des Droits de Propriété Intellectuelle Relatifs aux Oeuvres Audiovisuelles : Le Plan Législatif", Congrès de l'ALAI, Audiovisual works and literary and artistic property, ALAI, Paris, 1996, at 204 – 5.

<sup>405</sup> See section 2.3 on "Project participants in the creation of a multimedia product".

<sup>406</sup> See also A Berenboom, *op. cit.* note 272, at 218.

conclude that in a large number of cases the producer will *de facto* be the author of a multimedia product. He then finds it bizzare that in those countries where the producer also gets a neighbouring right in the first fixation/recording of the film, these two rights which were in origin supposed to be separate rights for separate people will now be given to the same person. One has to examine whether such a situation would be desirable or whether it would result in the producer getting an unduly high level of overall protection. It is submitted that the latter will only occur when non-original parts are included in the recording, otherwise any copyright will already cover *de facto* whatever could be offered in terms of protection by the neighbouring right.<sup>407</sup>

The fact that many authors are involved in the creation of a multimedia product necessarily has repercussions on the issue of moral rights and duration as well. The authors' works, which have been included in such a product, are more easily subject to alterations and therefore to infringement of the integrity right. The regime of audiovisual works has already put in place a structure for protecting moral rights, in the same way they are protected in relation to any other copyright work. However, in certain continental systems this is accompanied by the particularity that they are only protected after the work has been finalised (after the final cut). In terms of duration the existence of many authors makes it virtually impossible to calculate the duration of the right in an accurate way.<sup>408</sup> At least the system becomes impractical because too many people have to be traced. This multiplicity of authors was not envisaged when the system of calculating the duration of copyright in audiovisual works was set up.

If parallels are to be drawn between the contributors of a film and those of a multimedia product, at first sight it could be argued that the obvious comparison would put the director of a film and the editor of a multimedia work on the same level. The same could be said about the producer of a film and the producer of a

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<sup>407</sup> Sirinelli Report, *op. cit.* note 172, at 58.

<sup>408</sup> See article 2.2 of the EU term Directive, *op. cit.* note 231.

multimedia work<sup>409</sup>.<sup>410</sup> The editor of a multimedia work undertakes to select, acquire, bring together and edit the various works which are to be included in the product. The tasks of the director of a film are apparently not the same, as he undertakes primarily to direct the performance of the actors and to turn the script into a film. The producer of a multimedia work occasionally shares creative tasks with the editor of the work. On these occasions this can turn him into an author. If the roles of the four participants involved are compared, they appear not to have much in common. This is so because the contributors to a multimedia work do not have stable and well-defined roles. Even if their roles are well-defined, it could be alleged that the editor of a multimedia work compares well to an editor of a literary work rather than to the director of a film, whilst the producer of a multimedia work compares more easily to the producer of a film if he has not undertaken any creative tasks but has restricted its role only to the provision of investment.

The definition of collective works provides for various contributions which are merged together in such a way that they are no longer distinguishable. Since these contributions are no longer distinguishable, they only obtain value if they are seen in conjunction with each other and thus their whole (entity) should be retained and promoted. For this reason a quasi-compulsory transfer of rights is provided for in favour of the producer as well as a restriction on the moral rights of the authors involved in the creation of the audiovisual work. In the case of various contributors agreeing to contribute their works to the making of a film, and the contract not having precisely defined all the rights that have been transferred to the producer, because reliance is placed upon the promise of the contributors, or the contract generally being incomplete, «the contract shall be deemed to transfer to the producer all the economic rights which are necessary for the exploitation of the audiovisual work, pursuant to the purpose of the contract».<sup>411</sup> This system of quasi-

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<sup>409</sup> For the terms used in this chapter see *supra* section 2.3.

<sup>410</sup> Compare A Lucas, *op. cit.* note 320, at 149.

<sup>411</sup> Article 34(1) of the Greek Copyright Act. See also article 132-24 of the French Copyright Act, article 18 of the Belgian Copyright Act and article 88 of the German Copyright Act.

compulsory licensing was considered by many countries necessary for the finalisation of such a project. Since the financial risk remains with the producer, the one person who has undertaken the necessary investments for the production of the work, it would be highly unfair to him, for this production to be impeded by reason of bad will or unclear clauses in the contract of production. In the Anglo-Saxon tradition no statutory provisions to this effect exist. The whole issue is regulated by the contractual relations between the parties.

Another obvious advantage for multimedia products is the existence in most jurisdictions of a separate right for the producer in the recording if the work is classified as an audiovisual work. In this context there is no originality requirement and the separate right offers an easy and additional protection to the producer. This may be of particular value in those jurisdictions with a higher originality requirement for the pure copyright protection.<sup>412</sup>

One has to conclude from the above analysis that the category of audiovisual works has certain attractions when the classification of multimedia works is undertaken. It is equally clear though that multimedia products do not fit in well and that their classification as audiovisual works is problematic and has serious drawbacks. They are certainly not the most obvious and straightforward examples of audiovisual works.

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<sup>412</sup> In France, for example art.L215-1 of the Copyright Act 1994 provides for a specific regime of protection for « vidéogrammes ». It has been argued that this special regime of protection suits multimedia works extremely well. The « vidéogramme » is essentially the material support on which a sequence of images has been fixed. As such it can be distinguished from the work or content that is being fixed. For example that content may be an audiovisual work. Such a classification that is independent of the content of the work but rather depends on the support would fit in very well with the concept of a multimedia work which is essentially a CD-ROM containing a collection of pre-existing works in an integrated format. Livre Blanc du Groupe Audiovisuel et Multimédia de l'Edition, *op. cit.* note 273, at 25. German copyright law has a concept that is similar to that of the « vidéogramme ». For further details on the concept of « Laufbildern » see H Schack, *op. cit.* note 380, at 280 – 282. G Schricker argues, however, that under German law multimedia works, whilst they can contain 'Laufbildern', are clearly not to be classified as simple 'Laufbildern', Urheberrecht. Kommentar, 2nd ed., 1999, at 1479.



## CHAPTER VII

### COMPUTER PROGRAMS

#### 7.1 A multimedia work as a computer program

A multimedia product cannot perform its tasks unless it is assisted by a computer program.<sup>413</sup> It is the computer program which produces the interactive effects and allows the user to retrieve and arrange the contents of the multimedia work on his screen. The multimedia work and the computer program are marketed as one product.<sup>414</sup> Both are developed in a digital environment and distributed on a digitised medium or as a digitised service. The fact that both multimedia works and computer programs operate in a digitised environment, the fact that the presence of the computer program is indispensable to the functioning of a multimedia work and the fact that the architecture of a multimedia work relies on the design of its computer program<sup>415</sup> have urged many to think that we should investigate the possibility of whether a multimedia work can be protected as a computer program.<sup>416</sup>

Any attempt to protect a multimedia product as a computer program can only be based on certain grounds. It can either be based on the fact that in essence a

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<sup>413</sup> More than one computer program can be contained in a multimedia product.

<sup>414</sup> In the case of a multimedia service it is not always certain that all of the software which operates the work is transmitted along with the multimedia work on-line. Usually the user is given the installation/operation tools before any data is sent over to him.

<sup>415</sup> See A Strowel and J P Triaille, *op. cit.* note 24, at 357. The materials of a multimedia work have to be put in such a form and order so as to fit their operating software tool. In this sense part of their structure and arrangement is dictated by the software used for their manipulation. Of course we should not disregard the fact that the scenario that the computer program brings into action is predestined and predefined by the manufacturer of the multimedia work according to its needs.

<sup>416</sup> For a clear example, see F Koch, "Software – Urheberrechtsschutz für Multimedia – Anwendungen" [1995] GRUR 459.

multimedia work is nothing more than a computer program, or alternatively on the fact that if a multimedia work is more than just a computer program, this 'more' is only subordinate to a computer program and not substantial enough to warrant differential treatment. What is involved in the first case could simply be called a sophisticated computer program. In the second case protection of the computer program can also cover the protection of those parts of the multimedia work that come in addition to the software it includes, but only when these parts do not form a work on their own, distinguishable and capable of attracting protection on their own merits.<sup>417</sup> In order to examine whether either of these two cases are applicable, we have to look first at the definition of a computer program and that of a multimedia work.

Many national and international legal instruments, which refer to computer programs, avoid defining them. This is mainly due to the fear that any definition runs the risk of becoming outdated very soon by the rapid developments in the area of information technology and therefore rendering any legal instrument in the area inflexible and incapable of coping with the new technological reality.<sup>418</sup> The EU software Directive,<sup>419</sup> which sought to harmonise the software protection throughout the Community, is also an example of a legal instrument that avoids

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<sup>417</sup> Sirinelli points out that it is clear both in the law and in the case law that the special regime of protection is applicable to that part of a multimedia product which is a computer program and the common law to the rest. Sirinelli Report, *op. cit.* note 172, at 58. See also A Lucas, *op. cit.* note 320, at 144. Contra H Pasgrimaud who argues that the real issue is the way in which the work is fixed and therefore he thinks that a digital fixation makes a multimedia work a computer program. "La qualification juridique de la création multimédia: termes et arrière-pensées d'un vrai-faux débat" [1995] Gaz. Pal. (11.10.1995), p.13. It is submitted though that the medium on which the work is fixed is only of major relevance in relation to neighbouring rights such as sound recordings. Original copyright works are not primarily categorised on the basis of the medium of fixation. Multimedia works are in this respect first of all original copyright works.

<sup>418</sup> International protection for computer programs is provided for in the Berne Convention, TRIPs and the WCT.

<sup>419</sup> *Op. cit.* note 95.

defining the notion of computer programs.<sup>420</sup> It only provides in one of its Recitals that «the term ‘computer program’ shall include programs in any form, including those which are incorporated into hardware...[it] also includes preparatory design work leading to the development of a computer program provided that the nature of the preparatory work is such that a computer program can result from it at a later stage». However, computer programs are defined in the European Commission Green Paper on Copyright and the Challenge of Technology as «a set of instructions the purpose of which is to cause an information processing device, a computer, to perform its functions....The program together with the supporting and preparatory design materials constitute the software»<sup>421 422</sup>.

Central to the definition of a computer program is the fact that a series of coded instructions is put together in order to perform some particular functions or to produce some particular results. These functions may vary according to the design and the needs of the users, but they all come down to a common core. They are technical and utilitarian functions, which characterise the computer program more as a functional tool rather than a work. This tool is usually the intermediary for the execution of a task which leads to the creation or operation of another work. This is also the case with the tasks a computer program performs in relation to a multimedia product. It is the functional tool which allows for the manipulation of the contents of the multimedia work and which makes it interactive.<sup>423</sup> Any

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<sup>420</sup> At a stage where the notion of a computer program is more or less certain and recognisable, that seems to be a wise solution. But no one is in a position to foretell what tasks computer programs will perform in the future and whether we will be able to define these new products as computer programs. At that stage, security in law might become a more apparent and prevalent need.

<sup>421</sup> Green Paper COM (88) 172 final, 7.6.1988, at 170.

<sup>422</sup> Other definitions given to computer programs are that they are « a set of statements or instructions to be used directly or indirectly in a computer in order to bring about a certain result» or «a series of coded instructions which are intended to bring about a particular result when used in a computer». Article 101 of the US Copyright Act of 1976 and I Lloyd, Information technology law, Butterworths, 1993, at 250, respectively.

<sup>423</sup> P Sirinelli argues that it is clear that a multimedia creation consists of one or more computer programs and ‘something else’. Legal protection will necessarily be composite. What remains to be

intention or aim of combining different types of works so as to produce a «multi-expression» result, a creative entity in the sense of integrated amounts of various data and works is absent in the definition of a computer program. A computer program does not involve a variety of expressions. Even if text, images or sound are somehow combined or involved in the operation of software, they are by no means central to its function or operation. They only form minimal parts of it and in most cases their role is either auxiliary, decorative or residual. From this point of view a computer program comes closer to a tool (albeit a creative one) whilst a multimedia work comes closer to a collection of works or a film.

On the other hand the combination of different types of expression (text, images, sound, etc.) in a seamless fashion on a single medium is a vital and essential feature of a multimedia work<sup>424</sup>.<sup>425</sup> The inclusion of these expressions in a multimedia work is not done in a cursory manner, or simply as an auxiliary support or for market or instructive purposes only. It is the object of the work itself, the central feature which characterises it and which is also implied in its terminology (multi-media). If this feature is isolated from its technical base, it still forms a work on its own, (in certain cases even a highly creative one) and it is essentially that part of the multimedia product which gives it its real value. The computer program included in a multimedia work, known as the driver,<sup>426</sup> is nothing more than the key to operation (retrieval and projection onto a screen) and to interactivity.<sup>427</sup> In this sense the added value of a multimedia product derives

decided is the status (nature) of this 'something else'. In the case of video games and certain other programs that extra element is called 'audiovisual effects'. *Lamy audiovisuel* n° 638 in fine, p.517.

<sup>424</sup> See the definition of a multimedia work in chapter II of this thesis.

<sup>425</sup> The fact that both the multimedia work and the computer program are digitised does not play any role. A Lucas, *op. cit.* note 320, at 144 and P Sirinelli, *Lamy* n° 638.

<sup>426</sup> The driver along with a number of other parts forms the technical base of a multimedia product, i.e. the platform on which a multimedia product runs, the making program of a multimedia work, its command procedure and the media (on-line or off-line) on which a multimedia work is distributed. The command procedure can also be considered a part of the multimedia work and not part of its technical base along the lines of the database Directive. See Recital 20 to the database Directive.

<sup>427</sup> The software tool used for the operation of the multimedia work does not necessarily render the

from its contents (timeliness, comprehensibility, rarity, quality, etc.) rather than from the software incorporated in it.<sup>428</sup> The latter only makes the product market-attractive by rendering it interactive. In that sense the Microsoft's Encarta encyclopaedia is more appealing to users than a conventional encyclopaedia on hard copy.

This conclusion is not a difficult one to reach, especially if one looks into the EU database Directive.<sup>429</sup> A database may, in the same sense as a multimedia work, be accompanied on the market by a computer program which allows for the retrieval of its data. The database is valuable for the data it carries and the way in which these data are presented on screen and not for the computer program which reads the data. The computer program is an important part of the database only insofar as it is a necessary tool for the electronic retrieval of the information. The computer program which accompanies the database is afforded protection on its own merits under the provisions of the EU software Directive<sup>430</sup>. This train of thought has also been followed in the case of video games. Many video games qualify as both computer programs for the part of them which is a computer program (their technical base) and as audiovisual works for the additional part that creates the audiovisual effects.<sup>431</sup> In the cases where video games were found to be computer programs as a whole, this was justified on the grounds that the work as a whole did not present the variety and features of a genuine multimedia work. The

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work itself operational. It might only render the support on which the work is carried operational. P Deprez and V Fauchoux, *op. cit.* note 139, at 49.

<sup>428</sup> A Strowel and J P Triaille argue that the software which allows the manipulation of the multimedia work is only a marginal element of the work, the essential value of which remains the importance and the quality (l'actualité, etc.) of the assembled information in a literary, photographic, musical or other form, *op. cit.* note 24, at 357

<sup>429</sup> EU database Directive, *op. cit.* note 47.

<sup>430</sup> See Recital 23 to the database Directive which provides that «the term 'database' should not be taken to extend to computer programs used in the making or operation of a database, which are protected by Council Directive 91/250/EEC of 14 May 1991 on the legal protection of computer programs».

<sup>431</sup> See A Lucas, *op. cit.* note 320, at 144.

essential element to it was interactivity rather than anything else.<sup>432</sup>

It is clear that a computer program is only one part of the multimedia product, namely the technical part.<sup>433</sup> In addition to that part there is the visual effect of the compilation of the materials which is produced by the computer program and which is not created by materials contained or generated from it. These materials can be an amalgamation of sets of images, text, sound or other expressions which are projected onto a screen. Thus the similarities between a multimedia work and a computer program are due to the fact that the latter is part of the former's development and marketing and not because a multimedia work is a computer program. If the computer program contained in a multimedia work is taken out, the 'remaining part' is a valuable work in its own right that is capable of attracting copyright protection on its own merits. If in this case we were to protect this 'remaining part' by the regime of protection for computer programs, we would disregard its particularities and separate nature. The protection of the multimedia work would fall short of what would be required to encompass every aspect of the multimedia work and would be inadequate<sup>434</sup>.

## **7.2 Multimedia works and the regime of protection for computer programs**

If nominalism is left aside, the regime of protection for computer programs might be regarded as a possible candidate capable of accommodating the needs of multimedia products. We will now turn to that regime of protection and examine whether it can adequately cover multimedia products.

Although computer programs are protected under the EU software

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<sup>432</sup> See A Strowel and J P Triaille, *op. cit.* note 24, at 350 and 356. See also chapter VIII on video games.

<sup>433</sup> See also the EC Green Paper, *op. cit.* note 32, at 19 and the US White Paper, *op. cit.* note 25, at 44.

<sup>434</sup> See also G Vercken, "Les contrats des oeuvres multimédia" in Guide de la nouvelle loi sur le droit d'auteur, Bruxelles, SACD-SGDL, 1995, p.45.

Directive as a particular type of literary works, adaptations had to be made to that regime in order to be able to accommodate computer programs. As we explained in chapter I of this thesis<sup>435</sup> the inclusion of computer programs within the ambit of protection of literary works was a strongly debated and highly disputed issue. Computer programs are works that are functional and utilitarian in nature and therefore their inclusion within the scope of literary works, which are works of high creativity and personal expression, would upset and alter the traditional equilibrium of copyright. Software was considered to be a borderline case between copyright and patent protection with the balance slightly shifting towards the former. A *sui generis* regime for computer programs was not an option at a stage where the pressing need for protection required an internationally accepted regime of protection for products already widespread on the market. The choice in favour of copyright protection was above all a policy decision.

### 7.2.1 The 'reverse engineering' exception

The general regime of protection for literary works could not remain unchanged in relation to computer programs. The most essential change to it was probably the introduction of 'reverse engineering'. In general 'reverse engineering' involves starting from an existing program in order to see how it works and how it is made and then producing a new work which is based on these findings. In the area of computer software 'reverse engineering' is a process in which the object code version of a program is converted into a more readily understandable version, such as the source code.<sup>436</sup> This conversion allows the user to understand how the program works. It allows him to isolate the idea behind its construction which he might use later for the creation of a new but not similar or identical program or to make the decompiled program compatible with another existing program. The copyright regimes that are based on the EU software Directive only allow

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<sup>435</sup> See in chapter III section 3.2.1 on computer programs.

<sup>436</sup> See P Torremans and J Holyoak, *op. cit.* note 79, at 504.

decompilation and reverse engineering for the purposes of achieving interoperability. Although the concept of decompilation fits well with computer programs it does not suit multimedia products very well. In cases where a multimedia product is not compatible with a PC or other hardware that is used, this is a problem relating to the software incorporated into the multimedia product rather than to the work itself. There is nothing that can be decompiled in relation to the visual effect/compilation of sound, images, text, etc. The interoperability of the multimedia product is solely regulated by its technical base. Even if one seeks to explore the idea behind the compilation of the works presented on the screen, this idea becomes evident only by browsing through the product itself. What needs decompiling is the idea behind the software that operates that compilation.

If one nevertheless tries to imagine what would be the impact of the application of the software protection regime on the whole of the multimedia product, one is bound to find that decompilation would create havoc in relation to the collection of works that is contained in the multimedia product. Any attempt to unravel the digital code would necessarily give the decompiler access to the digital version of the works that are contained in the multimedia product. The digital code of these works could then easily be extracted and used in another multimedia product, one eventually operated with a different software tool. It is submitted that this form of decompilation really amounts to what the database Directive calls extraction/re-utilisation under the *sui generis* regime for databases. It is hard to see why what is specifically outlawed in relation to a certain type of collection of materials should specifically be allowed in relation to another type of collection of materials. The fact that decompilation is only allowed to achieve interoperability is not a good criterion to judge whether such a decompilation is *de facto* legal or illegal. The use of the same digital material would no doubt bring the two multimedia products closer together, but there is no real interoperability, since there is no reason why two multimedia products should work together. It is submitted that the whole concept of interoperability, especially as a tool to mark the borders of what is allowed, makes no sense whatsoever in relation to



multimedia works. Clearly the whole special reverse engineering/decompilation provision simply cannot work in relation to multimedia works.

### **7.2.2 The right to make back-up copies, slight adaptations and correct errors**

Another series of issues which are equally problematic in relation to multimedia products relate to the right granted to the user of the computer program to make back-up copies, adapt (slightly) the program if the standard version fails to meet his needs fully and to correct possible errors that are found in the program. Back-up copies of a computer program are justified on the grounds of the ease with which something can go wrong or become lost in the memory of a computer. In this case the user should not be obliged to purchase the whole software package since only a part of it is not available.<sup>437</sup> In addition to that, any damage or loss can cause great inconvenience to his work if we take into account that software is a tool for technical functions such as calculating, setting up the cashflow of a company or simply keeping its books etc. A multimedia program does not necessarily or immediately serve technical and utilitarian functions. In the same way one is not entitled to a second copy of a book if that book goes lost or is burnt, neither is one entitled to a second copy of a multimedia work. That would unjustifiably restrict the rights of the authors of the work at issue. The same applies in relation to the rights to adapt or correct errors in the multimedia work. Adaptation of a computer program is regarded as a necessary act in order to make it interoperable with another program or to adapt it to the specific needs of the user

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<sup>437</sup> Computer programs are primarily functional tools. Therefore it is quite readily accepted that if a functional tool breaks down its owner is allowed to repair it. Practically speaking this means that the owner of the program needs to have a back-up copy of the damaged files so that he can load them again onto the hard disk of the computer. This operation can only be possible if the owner has kept a copy of the whole product. In the same way a library has a right to photocopy some pages of a journal in order to replace them if these pages have been ripped out of this journal. An obligation to purchase the whole journal again would be rather unfair.

in the same sense as decompilation is permitted. Yet decompilation might not be enough. Upgrading and debugging might also be required. Since a multimedia work is not a tool in the sense that a computer program is, adaptation or correction cannot be justified. These actions can only be held to be impermissible actions and therefore infringing to the rights of the rightowners in a multimedia work.

### **7.2.3 The status of the employee**

Another issue which differentiates the regime of protection for computer programs from that of other literary works is the status of employees. There have been no changes in countries such as the UK, which already provided that the economic rights in works created in the course of employment are by definition transferred onto the employer who becomes their first owner through the operation of law.<sup>438</sup> The EU software Directive has followed the British paradigm in relation to the manufacturing of computer programs in the course of employment and it has introduced it as a general provision in the national laws of all Member States.<sup>439</sup> Any rights in a computer program which an employee produces in the course of his employment are automatically transferred to his employer, unless a contractual clause to the contrary is found. Even in cases where an employee's contract does not provide such an express and specific clause for the transfer of the economic rights in the work onto the employer, such a clause is implied by law. Clearly the emphasis here has been put on the facilitation of the development and marketing of the work. The entrepreneur is invested with all those rights that are necessary for the efficient exploitation of the computer program. The character of a computer

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<sup>438</sup> S.11(2) CDPA 1988 «where a literary, dramatic, musical or artistic work is made by an employee in the course of his employment, his employer is the first owner of any copyright in the work subject to any agreement to the contrary».

<sup>439</sup> Art.2.3 of the software Directive «Where a computer program is created by an employee in the execution of his duties or following the instructions given by his employer, the employer exclusively shall be entitled to exercise all economic rights in the program so created, unless otherwise provided by contract».

product is commoditised to such an extent that any special provisions which were traditionally based on the nature of a genuine literary work are no longer justified.<sup>440</sup> This, however, is not a provision which is necessarily ill-fitted for multimedia works if we consider that these works are also the work of a team which demands large investments and whose creation and exploitation must be secured in favour of the person or company which is prepared to invest in it.<sup>441</sup> Of course, another way of doing it would be to immediately designate the producer of the multimedia product as the author of this work. However this solution impinges on the spirit and purpose of copyright that grants authorship only to the actual creators of a work. Any other solution would add to a further depurification of copyright.

#### **7.2.4 A modified regime of moral rights**

The area of moral rights is one which has been adapted by many national laws in order to fit the needs of the commercialisation and use of computer programs. Also the general impression shared in those countries with a traditionally strong moral rights tradition is that moral rights fit badly with computer programs.<sup>442</sup> Moral rights are essentially justified by the strong bond between a creator and his work. The more industrial/utilitarian the good is, the more the bond between an author and a work loosens. In addition to that, software is often the work of a team and the subject of continuous adaptations. The author

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<sup>440</sup> The software Directive aims at the protection of the producer and of the work rather than the protection of the author as is the case with other copyright works. See A Dietz, [1990] ZUM 54, at 57 and M Marinos, *op. cit.* note 107, at 141 seq.

<sup>441</sup> It is interesting, perhaps, to note at this point that the EU Directive on databases does not provide for any provisions on the automatic transfer of economic rights of works created in the course of employment onto the employer of the creator. In that sense it was judged to be more sensible to apply the classic provisions on copyright to databases. (Databases do not necessarily need to be protected as literary works).

<sup>442</sup> Marinos, *op. cit.* note 107, at 49 seq.

or authors cannot easily be identified. The development of a computer program requires large investments and aims towards commercial purposes only. That is another aspect that has made drafters of national and international legislations on computer programs place more weight on the ease and security of the investor, the work and the user rather than the author.

The EU software Directive does not expressly refer to moral rights protection. It only provides that computer programs come under the provisions of Berne and thus article 6bis on moral rights must also apply.<sup>443</sup> Yet, whether this provision refers to the application of the traditional duo of moral rights (the right of paternity and the right to integrity, but the latter only in cases where the honour and reputation of the author are prejudiced) or to the full national moral rights provisions which apply to any literary work, is not clear.<sup>444</sup> Some national copyright laws have saved themselves from this dilemma by providing for specific moral rights protection relating to computer programs. However, even in these cases the problem remains if these provisions are not exhaustive. In most EU Member States restrictions have been placed on moral rights protection for software either by express provisions in the copyright laws or by restrictive teleological interpretation of the law.<sup>445</sup> Indeed if we leave aside the UK where moral rights have been abolished altogether in relation to computer software and computer generated works,<sup>446</sup> most Member States limit moral rights protection to the rights of paternity and integrity. On most occasions the latter is limited to situations where actions prejudice the honour or reputation of the author.

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<sup>443</sup> Article 1.1 of the EC software Directive, *op. cit.* note 95.

<sup>444</sup> See the De Clerck Report commissioned by the Belgian Justice, Chambers of the Representatives, 17 March 1994, Doc. Parl., n° 1071 (S.O. 1993-1994), p.11-14 where it is alleged that computer programs according to the EC software Directive should only be afforded 'a minimal moral right' corresponding to the scope of art.6bis of the Berne Convention. See also the Erdeman Report commissioned by the Justice of the Senat, 6 June 1994, Senat, Doc. Parl., n° 1054-2 (S 1993-1994), p.6.

<sup>445</sup> Also by applying the provisions on abuse of rights.

<sup>446</sup> See ss.79 and 81 CDPA 1988.

At this stage the issue of employer ownership of rights must also be taken into account. In the UK system no problems arise because moral rights do not apply to computer programs. In the systems that grant moral rights for computer programs, these rights are granted to the author, i.e. the employee. Economic rights on the other hand may belong to the employer through the operation of law, or in most other cases there will be a contractual transfer or a transfer by way of legal presumption of these rights to the employer. Moral rights on the other hand cannot be transferred to the employer. This could give rise to a situation in which the employee, being left with the moral rights in the computer program, attempts to interfere with the commercial exploitation of the work by the employer. More specifically the integrity right could be invoked to object to the exploitation of the work if the latter has been subject to substantial amendments, as is quite often the case in the software industry. In practical terms, the employee would be given an opportunity to use his moral rights for economic purposes in such a case. Particularly for highly utilitarian and functional works this is undesirable. However, moral rights do not exist in isolation and there must be a balancing between moral rights and other legitimate rights (e.g. rights of free speech or privacy) of other parties. In this particular area the contractual transfer of rights to the employer taken in combination with the highly functional nature of the work, must mean that the employee cannot be allowed to (ab-)use his integrity right if that in effect means that he is changing the terms or effects of the original contract. In a case where such a clash occurs preference should be given to the right of the employer and the employee should only be able to rely on the integrity right to stop an exploitation which clearly goes beyond the terms of the contract, i.e. because his honour and reputation are prejudiced. Where honour and reputation are prejudiced, the employee's integrity right becomes more important in the balancing act than the economic right of the employer. Apart from this exceptional situation the contract on economic rights has a *de facto* implication that there is an implied waiver, or reduction in scope, of the moral rights of the author<sup>447</sup> (or at least the

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<sup>447</sup> In France the leading view is that since art.L121-7 provides specifically that the author of a

author must be taken to have consented to not invoking his moral rights in cases where the exploitation of the work and of the rights that he had transferred complies with normal industry standards).<sup>448</sup>

It is interesting to note at this point that the highly commercial and utilitarian nature of computer programs has lead many countries to reconsider moral rights protection in relation to computer programs. The clear conclusion was that a hybrid copyright product requires a hybrid moral rights protection. However, it is a highly dubious contention that multimedia products share the same nature as software and therefore require a similar treatment. As was explained in earlier sections of this thesis, multimedia works are more than just a tool or simply a utilitarian work. Although their commercial side is undoubtedly the prevalent one, a highly creative side is also involved. This is the side relating to the part of the multimedia product

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computer program should restrict his right of integrity only to modifications which are prejudicial to his honour and reputation, whilst he has no right of reconsideration or withdrawal, all other moral rights apply. Yet, the exercise of some rights is highly disputed by reason of the nature of computer programs. See A and H-J Lucas, Traité de la propriété littéraire et artistique, Paris, P.U.F., 1994, at 319 and M Vivant in *Logiciel 94: "tout un programme?"* Loi n° 94-361 of 10th May 1994, J.C.P., 1994, ed. G, at 434. In Belgium it is submitted that only the moral rights provided in art.6bis of the Berne Convention are applicable. This is derived from article 4 of the Law of 30th June 1994. implementing the European Directive of 14 May 1991 concerning the protection of computer programs in Belgium. See also J Corbet who summarises them as a right of paternity, a weaker right of integrity and no right of divulgation, *op. cit.* note 116, at 39 (n°100) and 57 (n°147); and J Keustermans "*Software, chips en databanken*" in F Gotzen (ed), Le renouveau du droit d'auteur en Belgique, 447, at 462. In Greece there is no special provision on moral rights in relation to computer programs but it is suggested that their restriction is dictated by their nature and purposes by restrictive teleological interpretation, See M Marinos, *op. cit.* note 107, at 68 and G Koumantos, *op. cit.* note 99, at 295. It is also argued that in all these countries even though waivability and absolute transferability of moral rights is not allowed in principle, in relation to computer programs this can take place by interpretation of the purpose and the scope of a licence or assignment given to the entrepreneur. For the position in other EU Member States see C Doutrelepon, Le droit moral de l'auteur et le droit Communautaire, Bruylant, Brussels, 1997.

<sup>448</sup> In the same sense it is readily accepted that a newspaper journalist consents to or waives his moral right in respect of the normal editing of his piece by the editor of the newspaper.

which comes on top of the software, i.e. the collection of the different expressions or visual effect of the multimedia work. For that part no restrictions on moral rights are immediately justified in the same way that they are not justified in relation to films, databases, compilations, etc. Thus, computer programs might resemble multimedia products with regard to their commercial nature but not with regard to their final aims and objectives. These final aims and objectives do not necessarily require concessions in the area of moral rights.

Yet, what we should bear in mind is that the differentiation of the regime of protection for computer programs in the area of moral rights and rights of employees only makes sense in a continental law tradition. These 'exceptions' to traditional copyright were already present in common law traditions in relation to all literary works. In that sense it might be argued that the issue is not whether we should afford to multimedia works a 'different' status of protection along the lines of that afforded to computer programs but whether the whole copyright structure for new technology products, such as computer programs, databases, multimedia works, etc should undergo a general revision in order to meet the needs of the new reality of the market and the needs of the users.

### 7.3 Summing up

Having looked into the definition of a computer program and that of a multimedia work we can observe what Sirinelli already observed some years ago. «The fact that multimedia works are carried by digital supports should not lead us to the application of the special regime of computer programs. Even if computer programs constitute an important part of the multimedia product, they should not be allowed to assimilate the nature of the other elements....The special regime of protection is applicable to the computer program and the provisions of common copyright are applicable to the rest».<sup>449</sup> Any attempt to qualify a multimedia work

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<sup>449</sup> Sirinelli Report, *op. cit.* note 172, at 58. (Author's translation). See also G Schricker, Urheberrecht. Kommentar, 2. Auflage, 1999, at 1083.

as a computer program would miss out substantial parts of it and would prove to be too limited and inadequate a provision to cover the whole scope of a multimedia work.<sup>450</sup> Computer programs in relation to multimedia works are functional tools aiming at the operation and the manipulation of the materials of the latter.<sup>451</sup> As such they come on their own under the protective umbrella of the EU software Directive as this has been implemented in the copyright laws of the Member States.

As could be expected when two works are of a different nature, the application of one of the regimes of protection on the other can only be a difficult and unsuccessful exercise. The concepts of reverse engineering, back-up exceptions, adaptations, correction of errors or other, show graphically how difficult it is for the software regime to accommodate any multimedia works. Multimedia works have to be assessed on their own merits and after taking into account both their technical base and their multi-expression visual effect, in other words both their utilitarian and their creative aspects. This combination of ends advocates for a composite regime of protection as well.<sup>452</sup> Whether this regime of protection tailored to the needs of multimedia products will have to borrow solutions enshrined in the software Directive, is another issue. However, that does not advocate to any extent for the application of the software regime of protection, *per se* to multimedia products.

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<sup>450</sup> G Vercken, "Les contrats des oeuvres multimédia" in Guide de la nouvelle loi sur le droit d'auteur, Bruxelles, SACD-SGDL, 1995, at 45.

<sup>451</sup> B Wittweiler, *op. cit.* note 32, at 10, clearly makes the distinction between the classification of the multimedia work and the software that is used to operate it. The classification of the latter can in his view not simply be transposed to the whole multimedia work. See also in this respect U Loewenheim, « *Urheberrechtliche Probleme bei Multimediaanwendungen* » [1996] GRUR 830, at 832.

<sup>452</sup> See P Sirinelli, Lamy audiovisuel n° 638 in fine, at 517.



## CHAPTER VIII

### VIDEO GAMES AS A TEST CASE

#### 8.1 Video games as multimedia works

The only 'multimedia cases' that have come before the various national courts up to now are cases on video games. Indeed, video games were the first forms of multimedia products that appeared on the market. 'Multimedia works' is a generic term and as such it is capable of encompassing a great variety of products. Some of them are already known on the market whilst others have yet to appear. These products can be considered to come under the umbrella of multimedia works provided that they contain the essential elements or the common core of a multimedia work.

Video games possess the general/basic characteristics of a multimedia work. They combine on one medium (either off-line or on-line<sup>453</sup>) different forms of expression in a digitised format. Images and sound are the most frequently combined expressions, though text can also be included, usually in the form of commands, pathways or score results. All these elements make up the visual effect (sights and sounds) of the video game. The visual element is an audiovisual expression as long as images and sound or images alone or images as the main element are projected onto a screen.<sup>454</sup> If that is not the case then, although the

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<sup>453</sup> On-line distribution of video games has increasingly become the rule, especially in relation to distribution over the Internet.

<sup>454</sup> This screen might be a television screen, a computer screen or a screen forming part of the whole package structure of the video game. This would be the case with 'coin operated games' found in public places, such as pubs, casinos, etc. In this case the video game is distributed as a service. With regard to 'domestic video games', which can be purchased in computer or multimedia outlets, the video game is distributed as a good (a reproduction of the original copy). Of course, if this video game is rented in a video shop, it will be provided as a service.

visual element necessarily remains, since the video game can only be displayed on screen, the audiovisual expression is replaced by a literary (if it is primarily text that is included) or other expression and it is on these grounds that the product qualifies as a work.<sup>455</sup>

Video games are also interactive. In fact, interactivity is a core element of these games. Without it no game is possible. Interactivity in video games allows the user to participate in and control the progress of the game. The user has the choice of selecting between the various options available. These will in their turn give rise to one of the predestined scenarios or predefined sequences of images. A certain number of scenarios are available in each video game and the choices of the player activate a particular scenario corresponding to each of these choices.<sup>456</sup> Although the user selects these scenarios, he cannot intervene and change their content. In this sense his role is functional rather than creative.

The similarities between video games and other multimedia products have prompted many commentators to think that what applies to video games should necessarily apply to other multimedia works as well.<sup>457</sup> Yet that can only be the case if video games are in all aspects (composite elements, appearance, method of manufacturing, degree of interactivity, etc) the same as any other multimedia work. If that is not the case, multimedia works in general can be afforded the same legal protection as video games if the differences they present are not substantial enough to justify a differential legal treatment. After we have considered the legal

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<sup>455</sup> See the *Minitel* case where text was the prevalent element, TGI Paris, 16 September 1986, *Expertises*, 1987, n° 93, p.107.

<sup>456</sup> Another aspect in which video games resemble other multimedia products is that they are usually distributed in the same outlets, i.e. in computer or multimedia shops along with other information technology products. Yet there are places where video games alone are distributed, such as video shops. Any other multimedia product would only be rented in such a place if its sole purpose were entertainment. In the same sense there are multimedia products which are also sold in bookshops. Thus, distribution is not always a sound point of similarity between video games and other multimedia works.

<sup>457</sup> See for example B Edelman, *op. cit.* note 316, at 112.

solutions afforded to video games by various national jurisdictions, we will examine whether these solutions would be suitable for any other multimedia product. To this end we will also look into the nature of video games and compare it to that of other multimedia works.

## 8.2 The case law on video games

Judgments on video games are found in many jurisdictions. Perhaps this is so because video games have enjoyed great commercial success and also because this success, from an early stage onwards, has prompted others in the area to invest minimal effort and money into producing a similar or identical result or game and infringe or allegedly infringe copyright in existing products.

Such cases are mostly found in the US, France, Belgium and Germany.<sup>458</sup> It is interesting to note that, early on at least, the judgments in these countries were not uniform. This was partly due to the fact that video games were new on the market. Their commercial value was not immediately evident and neither was their need for protection. It was also partly due to the fact that traditionally there were difficulties in fitting new technological products within the scope of conventional intellectual property works. Three phases can be identified in the history of qualification of video games. In the first one video games were denied copyright protection altogether. In the two following phases video games qualified according to the case at issue, either as computer programs or as computer programs and audiovisual works simultaneously (for different parts of the same product). The leading view today is that video games are in part computer programs and in part audiovisual works.

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<sup>458</sup> The UK has no case law on video games at present. The English literature on video games is also almost non-existent.

### 8.2.1 Lack of protection for video games

Video games were initially denied copyright protection altogether. This denial was largely based on two grounds: a lack of fixation of the work and a lack of originality and aesthetic value.<sup>459</sup> The non-fixation argument of the courts in relation to video games arose on the basis that, on the one hand, video games were not fixed on a tangible medium that was human-readable (at least for those countries where fixation on such a medium is a necessary requirement for copyright protection) and on the other hand that fixation on such a medium was not sufficiently stable and permanent since it allowed the intervention of players.

#### 8.2.1.1 Absence of fixation

Under the US Copyright Act 1976

«protection subsists...in original works of authorship fixed in any tangible medium of expression, now known or later developed, from which they can be perceived, reproduced, or otherwise communicated, either directly or with the aid of a machine or device».<sup>460</sup>

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<sup>459</sup> «The [French] judges' attitude in refusing video games legal protection under the Statute of 11 March 1957 seems to be based on two considerations. Firstly, they believed they were dealing with a technical creation in the meaning of the law of industrial property. Secondly, they decided, in accordance with the most classical principles, that graphics of a purely technical nature, which in addition showed no original conception or presentation, cannot be classed either as belonging to the five arts system – as the civil parties had attempted to claim – or, in a more general sense, as an intellectual creation in the meaning of the copyright statute». X Desjeux, *“From design to software, video games and copyright. The analytical method in the test of technology”* (1986) 2 *Journal of Law and Information Science* 18, at 42-43.

<sup>460</sup> 17 US Copyright Act 1976 §102(a). See also the US Constitutional limitation and the previous US Copyright Act 1909 where copyright can only be granted to the ‘writings’ of an author. Under the previous US Copyright Acts a work was not copyrightable if it could only be seen or read with the aid of a machine or device. Under this Act only media existing at the time of its drafting, which

«A work is 'fixed' in a tangible medium of expression when its embodiment in a copy or phonorecord, by or under the authority of the author, is sufficiently permanent or stable to permit it to be perceived, reproduced or otherwise communicated for a period of more than transitory duration. A work consisting of sounds, images, or both, that are being transmitted, is 'fixed' for the purposes of this title if a fixation of the work is being made simultaneously with its transmission».<sup>461</sup>

The form, manner or medium of fixation in which an author chooses to present his work is of no legal significance to the US Copyright Act as long as the work is fixed on a tangible medium from which it can be communicated. On-line media are also covered by the Act if the work can be perceived for a period of time that is more than transitory. It is also of no interest under the US Copyright Act whether the medium on which the work is fixed was known or unknown at the time of its drafting or whether communication from this medium can be achieved directly by humans or indirectly through the aid of technical devices. Protection is also afforded irrespective of the number of copies that are made of the work.<sup>462</sup>

However, the medium on which a work is fixed and the work itself should not be confused for the purposes of the classification of copyrightable subject matter. The fact that a medium of fixation is not a tangible medium of expression, qualifying as such under a Copyright Act, does not necessarily mean that the work it carries is not copyrightable material. In *Midway Mfg. Co. v. Dirschneider* the Federal District Court for Nebraska pointed out that «[f]irst, the Court must determine whether the plaintiff's works fall within one of the copyrightable subject matters enumerated in the Act 17 USC. § 120(a). Second, the court must determine whether the work is fixed in a tangible medium of expression».<sup>463</sup> The video game

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were also media explicitly provided in it, qualified. This problem has been solved explicitly by the Copyright Act 1976. See also M Nimmer, *Nimmer on Copyright*, 1982, at §1.08.

<sup>461</sup> 17 US Copyright Act 1976 §101.

<sup>462</sup> See H.R. REP. No. 1476, 94th Cong., 2d Sess. 52.

<sup>463</sup> 543 F. Supp. 466, 479 (D. Neb. 1981).

at issue was found to be an audiovisual work<sup>464</sup> (therefore copyrightable subject matter) and to be fixed in the printed circuit boards which direct the video sequences. The printed circuit boards were found to be tangible objects from which the audiovisual works may be perceived for a period of time that is more than transitory or of more than momentary duration. Of course, for a work to be granted copyright protection it has to be both copyrightable and fixed on a tangible medium of expression.

The US Copyright Act 1976, contrary to its predecessor the USC. 1909, makes it clear that non human-readable media also qualify as capable of carrying copyrightable material.<sup>465</sup> This is the view taken in most other countries through the interpretation of the notion of fixation. Now, the stability and permanence of fixation is an issue common to any national copyright law. Transitory fixation is the counterpart of permanent and stable fixation. Transitory is either a fixation which only exists for a fraction of a second or we could also argue that it is also that fixation which does not have the prerequisites of being permanent, stable or capable of being read or seen again and again if required. «'Purely evanescent or transient reproductions' referred to by [US] Congress are those arising from live telecasts or performances that are nowhere separately recorded. Clearly the lack of any recording of such events would preclude their ever again being identically reproduced».<sup>466</sup>

It was also alleged that the lack of fixation was in part due to the fact that in video games there was no stable and permanent display of the work. In fact the participation of players made the display of the game appear different every time the game was played. It looked as if it were a different work each time and one that was expressed only in evanescent images.<sup>467</sup> Evanescent or transitory images as

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<sup>464</sup> See also M Nimmer, *op. cit.* note 460, at §2.18(H)(3)(b).

<sup>465</sup> Under the USC. 1909 computer games could not qualify for copyright protection on grounds of fixation.

<sup>466</sup> *Midway Mfg. Co. v. Artic International, Inc.*, 547 F. Supp., at 1008.

<sup>467</sup> *Midway Mfg. Co. v. Artic International, Inc.*, 704 F.2d 1009, 1011 (7th Circuit 1983); *Williams Elecs, Inc. v. Artic International, Inc.*, 685 F.2d 870, 874 (3d Cir. 1982); *Stern Elecs., Inc. v. v.*

such do not qualify as images fixed on a tangible medium. This argument was promptly rejected by both the US and the French Courts.<sup>468</sup> «[T]he sequence of images for each configuration produced by the player is fixed and predetermined in the game's circuits. In a sense the player could be viewed as part of the 'machine or device' with the aid of which the work is «perceived, reproduced, or otherwise communicated»[...].<sup>469</sup> The sequences of images which are displayed every time according to the choices of the user are already permanently fixed on the microcircuits and memory boards (ROMs) of the game. If they were not there they could not be invoked by the player. «Despite the variance of sights and sounds resulting from the player's actions, much of the game's appearance and sequence of play remains constant no matter who is at the controls. The characters on the screen look the same, and the sounds heard whenever a player moves or causes a particular action to occur are always the same, even though an unskilled player may never see every possible display. As the court noted, the images and sounds remain fixed, and although the player can vary the movement of the images, he can never produce a display which was not initially fixed in the memory devices».<sup>470</sup> The fact that interactivity is not provided for expressly in the copyright laws of the various countries is because it was a phenomenon that could not have been foreseen at this stage. Yet many national laws set out to cover new technologies by expressly saying so in their national copyright laws and by making their legal definitions technology neutral<sup>471 472</sup>.

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*Kaufman*, 669 F 2d 852, 856 (2d Cir. 1982).

<sup>468</sup> *Midway Mfg. Co. v. Artic International, Inc.*, 704 F.2d, at 1011 and see also the note of J Bonneau, [1985] Gaz. Pal., (28.5.1985), at 345, Paris, 20 February 1985.

<sup>469</sup> M-P Culler, "Copyright protection for video games: the courts in the Pac-Man maze" (1983-4) 32 Cleveland State Law Review 531, at 559-560.

<sup>470</sup> As K Maicher refers to the *Midway Mfg. Decision* of the US Court (paras 855-856) in her article "Copyrightability of video games: Stern and Atari" (1983) 14 Loyola University Law Journal 391, at 405.

<sup>471</sup> 17 USC § 102.

<sup>472</sup> The economic philosophy behind permanent fixation is that there is little sense in granting a monopoly to an ephemeral fixation which will not be able to be reproduced again. In such a

### 8.2.1.2 Absence of originality

The second reason for which video games were denied copyright protection was their alleged lack of originality. It is true that video games contain many non-copyrightable elements, such as facts, figures, settings, characters, themes and expressions of issues that on most occasions are not readily capable of forming a work within the notion of copyright.<sup>473</sup> In addition to that video games seemed at the beginning to follow the general trend that games are (in general) 'works of utility'. At least that part of them which was highly functional was incapable of attracting copyright protection.<sup>474</sup> The design and structure of video games seemed to come closer to an idea (which some will argue also includes the only way possible to express or construct such a product) than to an expression of the author (the individual way of constructing such a product, which was a choice among other options available) and therefore to fall foul of any copyright protection, at least for those parts which were utilitarian, functional and did not

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monopoly there would be almost nothing to exploit.

<sup>473</sup> The US courts refer to those as 'fact-intensive works' and 'scènes à faire'. «Scènes à faire are incidents, characters or settings which are as a practical matter indispensable [...] in the treatment of a given topic». «Scènes à faire are afforded no protection because the subject matter represented can be expressed in no other way than through the particular scène à faire. Therefore, granting a copyright «would give the first author a monopoly on the commonplace ideas behind the scènes à faire»». *Whelan Associates Inc v. Jaslow Denyal Laboratory Inc and Others* US Court of Appeals (3d Cir.) [1987] FSR 1. See also *Atari Inc v. North American Philips Consumer Elecs Corp*, 672 F 2d 607, 616 (7th Cir.), 459 US 880 (1982) and *Landsberg v. Scrabble Crossword Game Players Inc* 736 F 2d 485, 489 (9th Cir.), 105 S Ct 513 (1984).

<sup>474</sup> See S Bennett, "Copyrights and intellectual property – portions of video games may constitute protected property" (1983) 66 Marquette Law Review 817, at 818. See the 'abstractions test' that the US Courts use to distinguish the idea from the expression, P McKenna, "Copyrightability of video games: *Stern and Atari*" (1983) 14 Loyola University Law Journal 391, at 400-401. See also M Nimmer, *op. cit.* note 460, at §2.18



present any originality.<sup>475</sup>

Although the presence of non-copyrightable elements in video games was apparent in most national jurisdictions, the extent of these elements varied according to the level of originality required in each country and even if in all countries the axiom that the idea is not protected is respected, the delineation between the idea and the expression is a matter of interpretation subject to the various copyright traditions. As could be expected, common law countries traditionally held a more lax attitude towards the qualification of video games as protectable subject matter.<sup>476</sup> In continental law countries with strong copyright protection and strong convictions about works being the expression of the personality of the author, it was held that video games did not present any aesthetic value<sup>477</sup> which could justify their inclusion within the ambit of copyright and that in any case there could be no way in which 'technological patchworks' of this kind could be included within the same regime of protection as works of the mind.<sup>478</sup> The prerequisite of aesthetic value was soon abandoned by the courts as being irrelevant in relation to copyright. Statements such as «legal protection extends to each work that constitutes an original intellectual creation independent of all aesthetic or artistic consideration» are indicative on this point.<sup>479</sup>

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<sup>475</sup> See *Whist Club v. Foster* 42 F.2d 782 (S.D.N.Y. 1929) where it was argued by the court that «[i]n the conventional laws or rules of a game, as distinguished from the forms or modes of expression in which they may be stated, there can be no literary property susceptible of copyright»; *Chamberlin v. Uris Sales Corp.*, 150 F.2d 512 (2d Cir. 1945); *Morrissey v. Proctor & Gamble Co.*, 262 F. Supp. 737 (D. Mass. 1967) where no creative authorship was found in a sweepstakes entry-form rule which elicited information which was expected to be elicited from a would-be contestant; and *Durham Industries v. Tomy Corp.*, 630 F.2d 905 (2d Cir. 1980).

<sup>476</sup> In the US it is argued that for a work to be original it suffices that there is a little more than actual copying. Works which are no more than trivial variations of pre-existing creations will not be protected. It is also interesting to note that the closer a work comes to an idea the less one is allowed to copy.

<sup>477</sup> See the note of J Bonneau, [1984] *Gaz. Pal.*, (13.10.1984), at 345, Paris, 4 June 1984.

<sup>478</sup> See A Strowel and J P Triaille, *op. cit.* note 24, at 350-1.

<sup>479</sup> Translation by the author from the French judgment. *Atari c. Valadon et Williams Electronics c.*

A series of video games were denied copyright protection both in the US and in France, but particularly in France since they were found to come very close to an idea rather than an original expression. In 1975 Atari tried to register a video game with the US Copyright Office as an audiovisual work. It was denied protection on grounds that the game at issue was not substantially original and consequently incapable of attracting copyright protection. The case was heard on appeal on two occasions.<sup>480</sup> On both occasions the Court found that although there is no copyright in relation to the colours and the generic forms of the game, the combination of these elements together with sounds and movements was found to be adequately original so as to allow the registration of the game as an audiovisual work. Although in this instance, especially after the decision in *Feist*, a more stringent approach was expected in relation to copyrightability of a work, still the Court admitted that the video game at issue satisfied the minimum level of originality as this was set out in *Feist*.<sup>481</sup>

The Court of Appeal in Paris in two cases of alleged infringement and copying of two video games also came across the issue of originality. It found that the similarities alone between the two video games did not suffice to make out a case of infringement since in fact they only revealed the common idea behind them. Any exclusivity granted to the idea would lead to an unjustifiable monopoly in non-protectable material.<sup>482</sup> In the second case the Court found that «these facts in our times do not originate in a particularly original imagination or a very

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*Mme Tel*, Cass. Fr., 7 March 1986, [1986] D. 405, concl. Cabannes and the note of B Edelman. See also [1986] 129 RIDA 136 (July), note A Lucas and [1986] JCP, II, n°20631, note J Mousseron, B Teyssie and M Vivant, as he referred to by A Strowel and J P Triaille, *op. cit.* note 24, at 351, footnote 56.

<sup>480</sup> *Atari Games Corp. v. Oman*, 888 F.2d 878 (D.C. Cir. 1989) and 979 F. 2d 242 (D.C. Cir. 1992).

<sup>481</sup> For the discussion on the *Feist* decision see section 3.2.6.1.1.

<sup>482</sup> «[T]he only similarity between the two video games is found in the theme adopted but Atari cannot claim a monopoly in the genre at issue which can be summarised in a fight between a marksman and moving objects» (translated by the author). Paris, 4 June 1984. See also Cass. Fr., 7 March 1986.

original intellectual effort». <sup>483</sup> In both cases video games were not protected by copyright by reason of their lack of originality.

The French decisions on video games went perhaps one step further than those in the US. That was due to the fact that an idea in the US was held to be whatever could not be expressed by a video game developer in another way, whilst in France the idea was whatever was not creative enough to qualify as original (or what was rather commonplace). The French decisions were criticised by a part of the literature as being too strict, perhaps in view of the danger that many video games will go onto the market unprotected and will become easy prey to potential trespassers or marketers in the same area. In this way investments could be blocked in the video game industry. <sup>484</sup> On the other hand, of course, protecting too much could equally be a hurdle to new creations. Strowel argues that it is possible for one to wonder why French copyright law affords protection to expressions less creative than the traditional ones, like for example photographs and objects of applied arts, and not to video games. On the other hand the functional character of these works is highly apparent in so far as they are designed in a way which is both comprehensible and easy for the user to operate the video game. <sup>485</sup> This latter element must be an argument against copyright protection in any *droit d'auteur* tradition, since such functionality clearly devalues any claim to originality as an expression of the personality of the author. <sup>486</sup>

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<sup>483</sup> Paris, 20 February 1985. See also TGI Paris, 16 September 1986, *Expertises*, 1987, n° 93, p.107.

<sup>484</sup> This was also the case with the strict originality requirements in Germany in relation to computer programs until the introduction of the EC Software Directive.

<sup>485</sup> A Strowel and J P Triaille, *op. cit.* note 24, at 351. The same authors also argue correctly at page 352 that a choice of a title for marketing-functional reasons or the choice of appealing colours for a screen display or the functional order in which a game is presented do not take away the potential copyright protection for these items. The influence of functional considerations is not able to take away the copyrightable character of the material.

<sup>486</sup> Other French judgments where video games were not granted copyright protection are Criminal Court of Nanterre, 29 June 1984, (1984) *Expertises*, n° 67, p.301 and Criminal Tribunal of Paris, 8 December 1982, (1983) *Expertises*, n° 48, p.31.

### 8.2.2 Protection as computer programs

Video games can qualify as various types of works. Predominantly, however, they qualify as computer programs and audiovisual works<sup>487</sup>.<sup>488</sup> In the early video game cases certain national courts expressed a strong preference for video games to qualify as computer programs.<sup>489</sup> This preference was essentially based on two grounds. First, it was based on the finding that the screen outputs of the video games were not original enough to qualify as audiovisual works (in those countries, of course, where originality is a prerequisite for films) since the images and their sequences were essentially generated by the computer program contained in the video game. Secondly, it was based on the fact that the essential characteristic of films, i.e. a predefined or uninterrupted sequence of moving images, was not met by reason of the intervention of the players and their interaction with the video game. In *Pengo*<sup>490</sup> the German Court of Appeal in Frankfurt ruled that although it is possible for video games to qualify as both computer programs and audiovisual works, not enough originality was found in the video game at issue to qualify as an audiovisual work. It was found to have been conceived by its developer in such a way as «to create a simple play activity which requires no more than attention and reflex actions». In fact it was submitted that it is the software which creates, determines and operates the images that appear on

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<sup>487</sup> The definition given to video games by the US Court in *Stern Elecs, Inc. v. Kaufman*, 669 F.2d 852, at 853 (2d Cir. 1982) also points to this. Video games are «computers programmed to create on a television screen cartoons in which some of the action is controlled by the player».

<sup>488</sup> A Strowel and J P Triaille argue that video games may also qualify as databases. Yet, we fail to see how this can be the case under the present definition of databases in the EU database Directive which requires the contents of a work to be individually accessible. Unless there is a special type of video game which meets this criterion the database qualification for video games can only be rare. See Strowel-Triaille, *op. cit.* note 24, at 347. However, there were cases where video games contained mainly text rather than anything else. See the *Minitel* case, TGI Paris, 16 September 1986, Expertises, 1987, n° 93, p.107.

<sup>489</sup> See, for example, A Bertrand, *Le droit d'auteur et les droits voisins*, Masson, Paris, 1991, at 508.

<sup>490</sup> Judgment of the Court of Appeal in Frankfurt, 13 June 1983, [1983] GRUR 753.

the screen. Apart from that there is not enough originality put in the audiovisual displays to turn them into a film. The fact that everything was computer-generated did not allow the German Courts to opt for the film qualification of the work.<sup>491</sup> In *Donkey Kong Junior*<sup>492</sup> the same Court denied protection to a video game as an audiovisual work because of its nature. The fact that players were allowed to interact with the video game, undertake different steps each time and achieve different things, necessarily led to different images. It was exactly this plurality of possible outcomes in terms of sequences of images that was thought by the Court to make it impossible for the game to qualify as a film. The absence of predefined sequences of images was found to be contradictory to the notion of a film<sup>493 494</sup>.

It is interesting to note that the difficulty of identifying a video game as both a computer program and an audiovisual work was usually encountered by countries with strong copyright tradition and strict requirements on the issue of originality. These decisions, however, were also in part due to the fact that at that stage Courts were not yet familiar with the fact that elements of a work can qualify as a computer program whilst other elements of the same work can qualify as an audiovisual work. In other words, it is irrelevant for films whether their images are generated by computer software or not. As Schack observes, the medium on which a work is fixed and the technology used to operate this work are irrelevant for films.<sup>495</sup> «The copyright is not defeated because the audiovisual work and the computer program are both embodied in the same components of the game».<sup>496</sup> What counts is how much creativity, if any, has been invested in the sights and

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<sup>491</sup> *Ibid.*, at 756.

<sup>492</sup> Judgment of the Court of Appeals in Frankfurt, [1983] GRUR 757.

<sup>493</sup> *Ibid.*, at 758.

<sup>494</sup> See also in this respect [1985] ZUM 26, at 30; W Nordemann [1981] GRUR 891; von Gravenreuth [1986] DB 1005, at 1006; Seisler [1983] DB 129, at 21293. See also in France A Bertrand, *Le Droit d'auteur et les droits voisins*, Masson, Paris, 1991, at 508. For a different view see OIG Frankfurt [1983] GRUR 753, at 756.

<sup>495</sup> H Schack, *op. cit.* note 380, at 101 § 217.

<sup>496</sup> *Stern Elecs v. Kaufman*, 669 F2d, at 856.

sounds of the video game. If no creativity is found then the provisions for a film cannot apply. The equivalent in an Anglo-Saxon system is the absence of even a minimum investment of skill and labour.

### 8.2.3 Protection as computer programs and audiovisual works

Nowadays the literature on video games seems to accept that theoretically video games are capable of attracting three forms of protection. They can qualify as computer programs, as audiovisual works, as a combination of the two or, where not enough originality is found to classify them as such, they can perhaps attract copyright protection as drawings for their characters, figures or other designs.<sup>497</sup>

If the originality criterion is left aside, what is perhaps important to examine is whether video games possess the basic characteristics of an audiovisual work, in other words whether their interactivity and the intervention of players are enough to preclude any real sequence of images, at least for those countries which understand 'sequences of images' as an uninterrupted and predefined set of moving images.<sup>498</sup> In *Midway Mfg. Co. v. Artic Int'l, Inc.* the US Court of Appeals held

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<sup>497</sup> See especially G Schricker, *op. cit.* note 362, at 1010 § 44; and 2nd ed., at 1380. See also M. Nimmer, *op. cit.* note 460, at §2.18 who argues that the 'pattern or design of game boards' are copyrightable as pictorial or graphic works or as maps. Under German law there is also the option of a qualification as 'Laufbildern'. These are in fact moving images which possess no originality and form a neighbouring right. A Lucas, *op. cit.* note 320, at 146, suggests a similar possibility under French law when he argues that the qualification of a video game as *videogramme* gives rise to fewer problems in respect of originality and presence of a scenario than the qualification as audiovisual works. For the qualification of video games as computer programs and audiovisual works, see H Schack, *op. cit.* note 380, at 101 §215. For the position in France see A Lucas, *Le droit informatique*, Paris, P.U.F., 1987, n° 276. For the position in Belgium see P Peters, "*La protection des jeux-véo électroniques*" [1984] 2 Dr. Inform. 11. For the position in the US see M Nimmer, *op. cit.* note 460, vol.1, §2.18. Ch Millard suggests also that video games are audiovisual works, "*Copyright*" in Ch Reed (ed), *Computer law*, 2nd ed., 1993, Blackstone Press Ltd, p.88, at 92.

<sup>498</sup> See in this respect the section on audiovisual works and sequences of moving images.

that the US Copyright Act, by referring to a 'series of related images',<sup>499</sup> refers «to any set of images displayed as some kind of unit» and not an entirely fixed sequence of sights and sounds which reappear every time the game is activated. In addition to that the US Act provides that an audiovisual work is performed when its images are shown to the public in any sequence.<sup>500</sup> This is also in compliance with the fact that the legislative history of the Act suggests that it should be interpreted flexibly so as to encompass new technologies.<sup>501</sup>

In Germany a series of judgments on video games covered almost exhaustively the issue of whether video games meet the necessary prerequisites for film protection. The Bavarian Supreme Court stated that the fact that there is no predefined sequence of images in video games is irrelevant, as is the medium on which fixation took place.<sup>502</sup> Although the players are given the opportunity to interact with the video game, they can still only steer it within the boundaries set up by the designer of the software which as such does not alienate the nature of a video game from that of an audiovisual work.<sup>503</sup> Lastly, the fact that images in a video game are generated by a computer program should by no means impinge on the qualification of a video game as an audiovisual work<sup>504 505</sup>.

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<sup>499</sup> «...which are intrinsically intended to be shown by the use of machines or devices such as...electronic equipment...» 17 USC. §101.

<sup>500</sup> According to 17 USC. § 101 to 'perform' a work means «to recite, render, play, dance, or act it, either directly or by means of any device or process or, in the case of a motion picture or other audiovisual work, to show its images in any sequence or to make the sounds accompanying it audible».

<sup>501</sup> (7th Cir.) 704 F.2d, at 1011.

<sup>502</sup> 12 May 1992, (1992) ZUM 545, at 546.

<sup>503</sup> *PUCKMAN*, Judgment of the Court of Appeal in Hamburg, [1983] GRUR 436, at 437.

<sup>504</sup> Judgment of the Court of Appeal in Karlsruhe, 14 Sept. 1986, [1986] CR, 723.

<sup>505</sup> Other German cases where video games qualified as both computer programs and films are *Super Mario III*, Court of Appeal in Hamburg, 12 October 1989, [1990] GRUR 127, *AMIGA CLUB*, Court of Appeal in Köln, 18 October 1991, [1992] GRUR 312. In Belgium a similar conclusion was reached in *Nintendo v. Horelec*, judgment of the President of the Court of First Instance in Brussels, 12 December 1995 [1996] I.R.D.I 89. In France there is the judgment of the

The role of the player was not found to be creative or in any aspect capable of transforming the form and nature of the work. «[Any] movements [in the video game] do not originate in the actual creativity of the player, but in the fact that the player, by using his arm, gives rise in a pre-established program to one or other situation, the number of which is by definition limited».<sup>506</sup> The player was in fact viewed as a part of the 'machine' or 'device' with the aid of which the work is perceived, reproduced, or otherwise communicated,<sup>507</sup> whilst the playing of the game was compared to changing channels on a television since «[t]he player...[has no] control over the sequence of images that appears on the ...screen», but rather selects from the sequences stored in the circuits.<sup>508</sup> In the same judgment the playing of the video game was also viewed as «a little like arranging words in a dictionary into sentences or paints on a palette into a painting. The question is whether the creative effort in playing a video game is enough like writing or painting to make each performance of a video game the work of the player and not the game's [author]».<sup>509</sup> This conclusion is based on the German and US case law in this area. As we pointed out earlier other jurisdictions have adopted a different view and have denied copyright protection as an audiovisual work to those works whose images can appear in a random or player designed order.<sup>510</sup>

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Cour du Cassation (Ass. plén. 7 March 1986) *Atari v. Williams Electronics* [1986] 126 RIDA 136 (July) (annotated by A Lucas).

<sup>506</sup> *Atari v. Valadon*, TGI, Paris, 8 December 1982, Expertises, 1983, n° 48, p.31 (overruled by the Court of Appeal, but only for the judgment of the Court of Appeal to be annulled by the Cour de Cassation).

<sup>507</sup> M Culler, "Copyright protection for video games: the courts in the Pac-Man maze" (1983-1984) 32 Cleveland State Law Review 531, at 559.

<sup>508</sup> *Ibid.*, at 560 as she refers to *Midway Mfg. Co. v. Artic Int', Inc.*, 704 F.2d, at 1012.

<sup>509</sup> *Midway Mfg. Co. v. Artic Int', Inc.*, 704 F.2d, at 1011.

<sup>510</sup> See chapter VI on audiovisual works.



#### 8.2.4 The current position

It is apparent so far that any obstacles relating to whether video games qualify as computer programs and/or as audiovisual works have been solved by the national courts. Video games are held to be fixed on media that are both stable and permanent irrespective of their form and technology and irrespective of whether they are human-readable or not. They are found to possess the sequences or series of images required for their qualification as audiovisual works and it is also stated in all jurisdictions that the intervention of players through the option of interactivity is not capable of transforming the form and nature of the work either by impinging on their fixation on a tangible medium or their sequence of images.

The German cases where video games seemed to fulfil the requirements only in so far as their computer program component was concerned, mirror the early stage of the judicial history of video games. Today it seems to be accepted in most countries that video games consist of two main components. They consist of a computer program, which produces the effects and operates the game, and of an audiovisual work which is presented as the screen displays that communicate to the player the image, the movements of the characters and the sounds of the game. Both these works should be assessed separately and on their own merits. If they meet all the requirements which a computer program classification and an audiovisual work classification require and at the same time possess the level of originality that is required, then the protection for both these types of works should be afforded to a video game. If a video game fails to qualify for one form of protection, only the corresponding part will be able to be copied by third parties, and not the whole video game.<sup>511</sup> Of course, these elements, which are linked to the nature of the work that is protected, i.e. the computer program or the audiovisual work, will still be under copyright protection and should not be copied

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<sup>511</sup> The protection of video games as films is preferred by most people on grounds that cases of infringement are more straightforward to prove in relation to films than in relation to computer programs.

by unauthorised third parties.

### **8.3 Video games as a model for other multimedia works**

#### **8.3.1 Combination of different types of elements**

##### **8.3.1.1 'Image' as a prevalent element**

The courts have up to now dealt with cases of traditional video games. In other words all video games possessed a computer program, which generated images and sounds and allowed the players to interact with these. They also possessed an audiovisual element: screen outputs displaying the generated images and sounds to the users. So far, one thing is clear: video games are capable of combining many different kinds of works, e.g. text, computer programs, still images along with moving images, musical compositions, etc. However, the reality is that the majority of video games today are composed of images only. Although sound and text might also be present, these sounds are only basic sounds, which on most occasions do not attract copyright on their own merits as separate works. The presence of text is only minimal, and it is only used in so far as this is required to set out the rules of the game, the scores or the pathways a player should follow for the achievement of his target.

Although moving images are in fact the essential component of the screen displays of video games, still images, pictures, graphics, figures and drawings might also be present. A video game by its very nature is more heavily dependent on the images than anything else because it has to be comprehended quickly and easily and allow for the fast and efficient reactions of its players. It also aims to promote the game rather than provide information or initiate creation or full interaction with most of its components. Sound is only there to complement this effect, for reasons of marketing. The role of the text resembles that of the opening and closing titles of a film.

### **8.3.1.2 Combination of different types of elements rather than different kinds of works**

From this point of view it is apparent that the visual displays of video games are very similar to films. What, however, has to be noted is that the variety of elements a video game presents is really a variety of types of works rather than different kinds of expressions of works. A video game comprises various types of images and pictures and not a variety of expressions, i.e. balanced amounts of images with sounds, texts and other data.<sup>512</sup> That becomes even more apparent if one compares the merits of the various elements incorporated into a video game. The potential outcome will be that although images might be capable of attracting copyright protection on their own merits, i.e. as films, drawings, designs, artistic works, etc., the sounds, text or other elements remain rough data, incapable of attracting copyright protection or coming within the notion of a 'work'. On top of that the elements other than images are fewer in number than the images in any one work. In this sense video games essentially contain images and it is primarily the moving images which are presented on the screen during the game, which are capable of transmitting the passion and rhythm of the game to the player as well as the necessary visual tools for it.

### **8.3.2 The degree of interactivity**

The fact that all video games possess a certain degree of interactivity is uncontested, since the notion of interactivity is central and necessary for the operation of the game. That fact has also prompted many to think that perhaps the qualification of a video game as a computer program might be justified solely on grounds that it is its interactivity which is its central element and the main

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<sup>512</sup> Video games differ from other multimedia products in so far as they are homogenous works. T Desurmont, *op. cit.* note 367, at 178.

motivator for its purchase by the users.<sup>513</sup> All the other elements seem to be somehow accessory, assembled to make up the external decor, the marketing package which allows the game to look more marketable and commercially attractive.<sup>514</sup>

The question, though, should be how much space for intervention and manipulation the interactivity found in video games gives to its users and how radically new is interactivity in video games when compared to the traditional forms of manual interactivity in television and video films and especially in choose-your-own-end films, video-on-demand, pay-per-view, pay-per-read, etc? It is interesting to note in this respect that when the national courts ruled on the issue of whether the intervention of players impinged on the nature of a video game as a film or precluded it altogether from qualifying as a film on grounds of lack of fixation and originality, they contended that this was not the case. The intervention of users and their interaction with the game was not found to affect fixation since the sequences of images and other elements were permanently fixed on the microcircuit chips (ROMs) of the video game from which they were invoked by the player in their initial form. Neither was the originality requirement of the work affected. The work always remained the same even after being played. In fact the players could not alter the work. They could only temporarily arrange the sequence of the images they received and the order in which they received them. The initial work fixed on the ROMs always remained the same. The sequences of images which were stored on the ROMs of a video game were predetermined and predefined and they were also limited in number. In this context the player could not exercise any creativity and his role was restricted by both the limited selection of images and by the option of only selecting images according to the steps he took rather than morphing, blurring, etc. The US courts compared playing a video game

<sup>513</sup> A Strowel and J P Triaille, *op. cit.* note 24, at 356.

<sup>514</sup> It is worth noting here that this remark is also reinforced by the fact that many elements of a video game remain unprotected by reason of lack of originality and their strong link to the idea which underlies the game rather than its expression. Indicative of this is the case law in the various countries as referred to in the previous sections of this chapter.

to changing the channels on a television, and to arranging words in a dictionary into sentences or paints on a palette into a painting.<sup>515</sup> The courts, however, made clear that selecting words from a dictionary or paint from a palette is not like writing or painting where creative effort is required.<sup>516</sup> In the interactivity available in a video game, creative effort is not required and therefore it cannot be exercised. In this sense a video game is indeed like a choose-your-own-end-film where the user can only select from the moving images stored in the memory of a machine. These images or their sequences cannot be altered or changed. In the light of this the interactivity offered by both choose-your-own-end-films and by video games is not a re-creative, full interactivity. It is a limited interactivity, which does not leave the user any space for personal creation and authoring.<sup>517</sup> Nevertheless, the above do not exclude the case where sophisticated and modern video games will allow for further intervention of the users. At this stage, however, it might legally be more advisable to talk about manipulation rather than about a mere ability to intervene.

### 8.3.3 A comparison between video games and other multimedia works

If we were to compare video games with most other multimedia works of the same period, we could perhaps easily reach the conclusion that there are no real differences. Yet, the purpose of this section is not to compare video games with any early multimedia work but to compare them with the new reality of modern and sophisticated multimedia works as these currently appear on the market.

Although video games come within the genre of multimedia works in general, the progress of technology prompts us to argue that differences in the quantity that were introduced into modern multimedia products (i.e. many more

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<sup>515</sup> *Midway Mfg. Co. v. Artic Int'l, Inc.* 704 F.2d, at 1011-1012. The player has no control over the sequence of images appearing on the screen. He can only select from the few sequences stored in the circuits.

<sup>516</sup> *Ibidem.*

<sup>517</sup> See *supra* section 2.1.4.

different kinds of works combined on one medium, vast numbers of data, an advanced degree of interactivity, etc.) necessarily result in differences in quality as well. From this point of view judicial solutions which were entirely based on one primitive form of multimedia products might no longer be appropriate to serve the needs of the most modern version of these products.

First, as we explained earlier, image is the only element absolutely necessary to and dominant in a video game. Sound, text or other elements are either non-existent or they play only a residual role. If variation is encountered in a video game this is a variation in different types of images (such as moving images, still images, graphics, figures, etc.) rather than a variation in different kinds of works (i.e. musical works, literary works, computer programs, etc.). In contrast, in modern multimedia works the combination of various kinds of expressions is found at the heart of these products and constitutes their essential feature and one of the main reasons for their purchase.

The other main reason for their purchase is that a modern multimedia work contains huge numbers of works. This is essential because these works have been seamlessly integrated in a digitised format which allows them to co-exist in vast amounts on one medium that is both comprehensive and handy for the user. This aim is almost absent from the construction purpose of a video game. A video game is not set up in the first place to offer vast amounts of information and neither does it combine a great variety of expressions. Essentially the only work which is contained in them is a combination of sets of moving images. The combination of these sets allows the work to qualify as an audiovisual work, provided it is original. Yet, if we take these sets of images apart, they might not always qualify as separate works. Any other elements contained in a video game will be even more likely not to qualify as separate works. Thus, video games are combinations of images rather than anything else, plus other non-copyrightable material. It follows therefore that no problems will be encountered in the clearing of rights, assemblage of components,<sup>518</sup> etc. In contrast in a modern multimedia

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<sup>518</sup> Most of the elements contained in a video game are created by its manufacturer. There is almost

work, one of the main difficulties is that in order for the work to come into existence it has to combine various works, most of them being under copyright protection.<sup>519</sup> Here, the authors involved and the rights to be cleared are numerous and require different strategies of assemblage, construction and marketing when compared to video games, especially if issues such as moral rights are to be taken into account.

Last but not least there is the difference in the degree of interactivity in video games when compared to that of modern multimedia works. Interactivity in video games, as was explained earlier, is limited in nature. The role of the player is restricted by the choices available. In reality the player has only the choice to select between the various sets of images available. His choices cannot extend further than that selection. In this respect his role is not creative or imaginative and his moves form part of the machine or device which operates the game. However, interactivity still forms an indispensable element for video games. In modern multimedia works interactivity goes further than just a selection of the elements available. A versatile, full interactivity actually allows the user to have a creative role, to use his imagination to reconstruct existing works or construct entirely new works from the contents of the product. Sampling, blurring and morphing are some examples of the possibilities offered. Multimedia products are popular just because of the variety of the options they offer. They not only allow one to choose the paints from a palette or the words from a dictionary but they also allow one to paint and write.

One could argue that although that is possible, the selection of items contained in a multimedia work is still limited by the selections made by the developer of the multimedia product and that the initial works, even after their manipulation, still remain as they were initially stored in the memory of the product. That, however, does not place a modern multimedia work at the same level as a video game, firstly because the selection available is usually significantly

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no inclusion of pre-existing works.

<sup>519</sup> Either pre-existing works or newly authored works.

broader than the one offered in video games and secondly because of the fact that the use of the data allows for a far higher level of interactivity and creativity. There is almost no limit to the choices and the degree of manipulation by the user. The user is given the opportunity to fully manipulate the contents of the multimedia work, to be creative and imaginative. He can transform the works contained in the multimedia product to such an extent that they are unrecognisable, in effect qualifying as new works, capable, perhaps, of attracting copyright on their own merits. Modern multimedia works will be increasingly used simultaneously as sources of information, creation and entertainment.

#### **8.4 Conclusions**

Video games are only primitive forms of multimedia products. Interactivity is their central element and the one that allows the game. The features of combining vast amounts of data and various types of expressions are present in only a limited way. In this respect, and as far as their prevalent elements are 'moving images' juxtaposed in an original way, they qualify as audiovisual works. They obviously also contain a computer program for their operation.

Modern multimedia works, or multimedia products as the notion is understood today, possess a greater degree of interactivity which allows the user not only to select elements but also to combine and create. In other words a full manipulation option is available. Multimedia works contain more than just moving images and they contain these other elements at least to the same degree as moving images. Interactivity is not central in the definition of a modern multimedia product, though it is the feature that makes it possible to market successfully. What is of central importance is the comprehensibility and combination of the various kinds of works. The feature of combining different kinds of works in one medium is more apparent and essential in a modern multimedia work than it is in relation to video games. In addition the elements of modern multimedia works are on most occasions works rather than data, and in particular vast numbers of works. In this



sense their marketing as well as their development requires other forms of expertise if one focuses on their sights and sounds rather than on their computer program component. Usually multimedia works are authored and distributed by publishers rather than computer companies or outlets, although this is a situation which might vary in the future according to the conditions of the market.

In the light of the above, video games can serve as a model for multimedia products only in so far as they indicate that both products contain two components: a computer program which operates the work and the 'sights and sounds' of the work. In relation to the first component virtually all problems have been solved. In relation to the second there is no clear indication from the above discussion that the desirable solution is the inclusion of a modern multimedia work within the ambit of audiovisual works along the lines of video games. The similarities audiovisual works present in relation to modern multimedia works are far fewer and looser than those they present in relation to video games. Modern multimedia works will have to be assessed on a different basis and on their own merits. This is perhaps an assessment that ought to take place in relation to more sophisticated video games as well.

## CHAPTER IX

### MULTIMEDIA PRODUCTS AND EXISTING CATEGORIES OF COPYRIGHT WORKS

#### 9.1 Originality and qualification for copyright protection

Having examined the existing categories of copyright works that might eventually be capable of accommodating multimedia products, and having identified the difficulties they would present if they were to serve the needs of these products, one might wonder whether it would be a wiser solution to afford copyright protection to a multimedia work irrespective of whether or not it comes within one of the existing categories of copyright works. In other words one should examine whether the classification of a new work is a necessary prerequisite for the work to attract copyright protection. The essential question therefore is whether a multimedia work can qualify for copyright protection by reason of its originality alone if, of course, it is taken for granted that a multimedia work is by nature a 'work' that is adequately fixed to meet the criterion of fixation in those countries where such a criterion is indispensable for the qualification of a work as a copyright work.<sup>520</sup>

The answer to this question necessarily involves two aspects or considerations. One aspect is whether in all national copyright laws, classification of a work is a necessary prerequisite for a work to attract copyright protection. And secondly, where such a requirement is not present, whether the option of the protection of a multimedia product outside the special regime of a particular class of works, i.e. as a traditional literary work, a film, a computer program, etc., suffices for its protection and satisfies its needs fully.

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<sup>520</sup> In certain countries the notion of a 'work' presupposes originality.

### 9.1.1 Guidance in the Berne Convention

A first element of guidance in this area can be found in the Berne Convention since Berne provides for a minimum standard of protection that needs to be met by all Member States. We will then analyse how the Member States have implemented and built upon this minimum standard.

The Berne Convention defines literary and artistic works as copyrightable material, meaning every production in the literary, scientific and artistic domain, whatever its form or mode of expression. Article 2 of the Convention, in its first paragraph gives some illustrative examples of what the concept of literary and artistic works includes: for example books, pamphlets and other writings, lectures, addresses and so on.<sup>521</sup> Thus, any work which meets this description and which is at the same time original and consistent with what is implied by the notion of 'production' in the same article,<sup>522</sup> qualifies for copyright protection. It is clear from the above description and wording that the notions of 'literary works' and 'artistic works' represent generic terms rather than special categories of works in the narrow sense of the term (i.e. traditional literary works). Thus, any work which possesses the essential characteristics contained therein<sup>523</sup> together with the required creativity that is implied by the nature of these works, qualifies for copyright protection without any other further requirement or consideration. Prior classification of a work is not required.

Yet, Berne only requires that all works that come within its scope are protected. How this is achieved is left to the Member States. Two approaches have

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<sup>521</sup> See S Ricketson, *op. cit.* note 112, at 228.

<sup>522</sup> Originality is a concept that is implied by the nature of literary and artistic works (especially by the term 'production' found in article 2 of the Convention) and which comes closer to the continental standard of originality that requires the personal imprint of the author rather than the common-law one that only requires the work not to have been copied, or else known as the 'skill and labour' doctrine. See also S Ricketson, *op. cit.* note 112, at 230seq.

<sup>523</sup> Since no particular characteristics are provided for, it can also be any work which resembles them.

appeared over the years. A first approach sticks rather closely to the text of the Berne Convention and prior classification does not take place. This approach has mainly been adopted by countries of continental Europe and those that follow their lead.

### 9.1.2 A first approach

Belgian copyright law keeps the broad generic category of literary and artistic works as the first and only test for qualification of a work as a copyright work. The notion of 'literary and artistic works' is not defined. Article 2 of the Belgian Copyright Act simply refers to literary works as 'writings of any kind' and gives a limited number of examples.<sup>524</sup> Definitions or examples of artistic works or of sub-categories to the broad literary and artistic works genre are not given. In the German Copyright Act the generic category of works is the category of 'literary, artistic and scientific works'. The list of works in article 2 of the Act which come within its ambit of protection is only illustrative.<sup>525</sup> The French and the Greek Copyright Acts opt for a category of qualifying subject-matter which is linguistically even wider. The French Act refers to any 'work of the mind',<sup>526</sup> whilst the Greek Copyright Act refers to 'works' in general. «The term 'work'... designate[s] any original intellectual literary, artistic or scientific creation, expressed in any form, notably written or oral texts...». <sup>527</sup> In all these cases any list of examples is not exhaustive. Thus, in these countries virtually everything qualifies as a copyright work. The criterion that is used to ensure that the quality standard that Berne adopts through the introduction of the terms 'literary and artistic works' is respected, is the originality criterion. Only original works will be seen as copyright works and the high originality criterion is there to make the

<sup>524</sup> See A Strowel and J P Triaille, *op. cit.* note 24, at 8-9.

<sup>525</sup> See also H Schack, *op. cit.* note 380, at 77.

<sup>526</sup> Article L.111-1 in part one that is entitled 'literary and artistic property'. That indicated that all works of mind are essentially literary and artistic property.

<sup>527</sup> Article 2(1) of the Greek Copyright Act 2121/1993.

selection.

The 'no prior qualification' approach has also been adopted by the United States. The United States opts for a general term and definition which, in the first instance, does not immediately refer to literary and artistic works, works of the mind or works generally. Section 102(a) of the US Copyright Act provides that «[c]opyright protection subsists...in original works of authorship fixed in any tangible medium of expression, now known or later developed, from which they can be perceived, reproduced or otherwise communicated, either directly or with the aid of a machine or device». Similarly in Greek law, the concept of a 'work' is the starting point. However, the American version immediately adds further requirements. In practice there are three necessary prerequisites for a work to qualify for copyright protection. First, it has to be a work, second it has to be original and third it has to be fixed in a tangible medium of expression.<sup>528</sup> Although the US Act later enumerates eight categories of works, these categories play an indicative role only. Works that do not belong in one of these categories may also qualify for copyright protection if they possess the features mentioned above.<sup>529</sup>

At first sight the US three-feature test of qualification seems to be more restrictive<sup>530</sup> than the requirement found in most continental law systems that a work should simply come within the notion of a literary or artistic work in order to qualify for copyright protection.<sup>531</sup> Nevertheless, if one takes into account the loose

<sup>528</sup> US White Paper, *op. cit.* note 25, at 24.

<sup>529</sup> «The list in Section 102 is intended to be illustrative rather than inclusive». US White Paper, *op. cit.* note 25, at 42. See also footnote 123 in the same page which refers to House Report at 53, reprinted in 1976 USC.C.A.N. 5666. The Report mentions that the list of categories of copyright works «sets out the general area of copyrightable subject matter, but with sufficient flexibility to free the courts from rigid or outmoded concepts of the scope of particular categories».

<sup>530</sup> Especially if we take into account that a work has also to be fixed, which on certain occasions comes in addition to the originality criterion that in turn constitutes the only passport of qualification for works in many continental copyright laws.

<sup>531</sup> Even if the notion of literary or artistic works in the Berne Convention is construed as broadly as possible, direct reference to these notions is always subject to certain implied limitations.

criterion of originality in the US one soon realises that the number of works qualifying for copyright protection in the US is substantially larger than that on the Continent.<sup>532</sup> The broad generic category of literary and artistic works, which is provided for in the continental copyright laws, is substantially restricted by the requirement for a work to carry its author's personal imprint. Such a restriction goes a good deal further than the US three-condition test for works.

### 9.1.3 A second approach

The countries we have just mentioned adhere to the first approach in implementing the Berne provisions. A second and rather different approach has been taken by the UK. The CDPA 1988 follows a different route of qualification. Here classification is a necessary requirement. In order for a work to qualify for copyright protection, it has first to come within one of the specifically designated categories of copyright works. According to section 1 of the Act, a work should fall within the description<sup>533</sup> of original literary, dramatic, musical or artistic works; sound recordings, films, broadcasts or cable programs, or the typographical arrangement of published editions. If that is not the case the work at issue does not qualify as a 'copyright work' for the purposes of this Act.<sup>534</sup> From section 3 onwards the description of these particular categories of works is set out, whilst fixation is there as an additional requirement for qualification. Originality is only required in those cases where it is specifically mentioned. In other words only

<sup>532</sup> See the analysis of the fixation requirement in section 8.2.1.1 in chapter VIII on video games.

<sup>533</sup> As this description is set out in other parts of the CDPA 1988.

<sup>534</sup> See section 1(2). See also P Torremans and J Holyoak, *op. cit.* note 79, at 167; H Laddie, P Prescott and M Vitoria, *op. cit.* note 94, at 27-28, and W Cornish, *op. cit.* note 126, at 332 §10-03 where he argues that the criteria in order for a work to qualify for copyright protection are principally of two kinds: the nature of the material and the intellectual or entrepreneurial activity that produced it on the one hand, and on the other hand the qualifying factor, which brings into account international considerations stemming from the copyright conventions and similar arrangements. He also alleges that the qualifying factor depends upon what constitutes publication.

literary, dramatic, musical and artistic works have to be original. The originality criterion, as we mentioned earlier, is confined to the issue of whether there is enough skill and labour involved in the creation of the work. It is interesting to note that although the *numerus clausus* of the copyright categories available in the UK Copyright Act seems to restrict the scope of protection of works, the low originality criterion or the absence of any originality requirement at all in certain cases,<sup>535</sup> coupled with the broad definition and description of these limited categories of works, allows for an extensive number of works to qualify.<sup>536</sup> In this sense, copyright in the UK is much broader than copyright in continental law countries.<sup>537</sup>

The fact that in the UK a work has first to be designated as a particular type of work, for example a literary work, a film, a sound recording etc. in order to attract copyright protection is not necessarily restrictive to the number of works qualifying. The description of each category of works is usually wide enough to encompass many variations of the same expression. If at the same time the originality and the fixation requirement are respected, this is actually how a work comes within the scope of the CDPA 1988<sup>538</sup>.<sup>539</sup> After this classification the work necessarily qualifies for the regime of protection which corresponds to the class of works at issue, e.g. the audiovisual works regime of protection if the work qualifies

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<sup>535</sup> Even works without an author, i.e. computer-generated works, qualify for copyright protection, a situation which would be unacceptable for continental law systems.

<sup>536</sup> See, for example, the definition of a literary work in section 3(1) CDPA 1988.

<sup>537</sup> The US Copyright Act is as broad as the UK Copyright Act in defining the different classes of works. In addition both Acts favour a low originality criterion.

<sup>538</sup> In fact it is easier for a work to qualify as a copyright work in the UK than it is in the Continent by reason of the broad definition of the various classes of works and the low originality criterion.

<sup>539</sup> The originality requirement either comes in addition to (as is the case in the UK), or on most occasions is part of the nature of literary and artistic works, as is the case in the Berne Convention. There is also the requirement of fixation in the UK and the US. Nevertheless, even in the case where fixation is not an explicit requirement in other copyright systems it is often implied either by the nature of the work (there is no phonogram, for example, if there is no recording) or by its definition (e.g. literary works as 'writings of any kind').

as film, the phonograms regime of protection if the work qualifies as a musical work and so on. However, the risk with broadly defined classes of works is that if a work could qualify for copyright protection under more than one category of works, it might not fit well with the regime of protection of one single category of works. Theoretically one work should qualify for no more than a single category of works otherwise the general copyright system malfunctions. This view was also confirmed in the case-law. Laddie J. ruled in *Electronic Techniques (Anglia) Ltd v. Critchley Components Ltd* that «[i]n some cases the borderline between one category of copyright and another may be difficult to define, but that does not justify giving the author protection in both categories. The categories of copyright work are, to some extent, arbitrarily defined. In the case of a borderline work, I think there are compelling arguments to say that the author must be confined to one or another of the possible categories. The proper category is that which most nearly suits the characteristics of the work in issue».<sup>540</sup> Thus, if a newly-qualified work comes under the classification of films but is not a film *stricto sensu* and presents a different variety of particularities, it is very likely that the regime of protection for films will not serve it well, at least in respect of those characteristics which come on top of the traditional characteristics of the film.<sup>541</sup> The same, of course, applies to any regime corresponding to particular classes of works.

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<sup>540</sup> [1997] FSR 401. See also *Anacon Corporation Ltd v. Environmental Research Technology Ltd* [1994] FSR 659, per Jacob J. See also P Sirinelli, *op. cit.* note 172, at 58, who argues that the allegation of commentators that a multimedia work is somewhere between a database and a film disregards the risk that two special regimes of protection will be applicable at the same time and the dangers this simultaneous application may create, especially if these regimes are not compatible between themselves.

<sup>541</sup> The problem becomes more apparent if one realises the problem the *ius cogens* provisions relating to one category of works present in relation to products which do not really fit well with that particular category of works.



#### 9.1.4 Problems arising from these approaches

Up to now we have discussed the system of qualification of works as copyright works in relation to both approaches found in the area. Yet both approaches present inherent problems when they have to accommodate multimedia products. We will first deal with the problems deriving from the first approach.

In the copyright laws where the procedure is usually independent of any prior classification of the work, a work has to possess the general characteristics of the genre of literary and artistic works in order for a work to qualify for copyright protection. If that is the case and the work at issue is also original enough, it qualifies for copyright protection without any further requirement. Only in a second phase does classification take place and this happens only when the work possesses the particular characteristics of one of the categories of literary and artistic works for which special rules were deemed to be required. In this case the relevant regime of protection applies. In case classification is not possible by reason of the particularities of the work and the absence of a specific category for multimedia products, then the work is afforded the general copyright regime of protection which coincides with that of traditional literary works. In that case, although the work does not remain unprotected, it can only be protected partially since the general regime of protection covers in essence those parts of a work which come close to a traditional literary work. The issue of how far multimedia products resemble traditional literary works has been discussed earlier in this thesis and it is apparent that these two works do not necessarily have much in common.<sup>542</sup> Therefore, if multimedia products were to be protected as traditional literary works it is clear that their protection would not be wide enough to cover their entire scope.

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<sup>542</sup> See especially Livre blanc, *op. cit.* note 273, at 13seq. And the Sirinelli Report, *op. cit.* note 172, at 70 where it is argued that the Cour de Cassation has never allowed the right to citation to be applied outside the category of literary works. The same problems might also arise in the exception for the purposes of research and private study in relation to digitised works.

Although the UK approach takes another starting point, it still gives rise to a number of problems. In this case multimedia products cannot be afforded copyright protection unless they are first classified in one of the existing categories. Yet classification is not an easy task here either. The different classes of works have been designed to accommodate specific products although it is obvious that most of them are worded in very broad terms. Three conclusions can therefore be drawn. First, a work might not qualify for copyright protection at all if none of the categories available is found capable of protecting the work at issue because the work does not come within the definition of any of the categories. Second, fitting the new product into one of the given categories of works, e.g. protecting a multimedia product as a computer program, would inevitably result in protecting the whole product as a computer program and thus attributing features as well as rights and obligations to it which are not relevant or functionable in its context. Consequently the accommodation of multimedia products in any category will inevitably offer copyright protection for those parts of the work that coincide with the characteristics of the works meant to be included in that category of works but not for those characteristics which differ or are additional to it.

A third solution that can also be argued is for the work (the multimedia product in the case at issue) to be divided into different parts and each part protected on its own merits. However, this is not a viable solution from a market as well as a practical point of view.<sup>543</sup> This is because most parts of a multimedia product can only be seen in conjunction with each other and evaluated as a whole. If one misses the value of the interaction of the different components of a new work one also misses the added value which is put on the work exactly by reason of the interaction of these elements. That will inevitably lead us to situations where inseparable and indistinguishable parts (in the sense that they cannot be

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<sup>543</sup> P Sirinelli argues that a possible solution is to divide a work into parts and protect each part on its own merits. "Le Multimédia" in P Gavalda and N Piakowski (eds), *Droit de l'audiovisuel*, Paris, Lamy, 511, at 522. See also *Electronic Techniques (Anglia) Ltd v. Critchley Components Ltd* [1997] FSR 401, per Laddie J.

distinguished or if distinguished they give another result) will inevitably stay unprotected<sup>544, 545</sup>. In that sense both approaches present equally grave problems in relation to the protection of multimedia products. Replacing one with the other does not seem to solve the problem. Both approaches are incapable of offering full protection by reason of the difficulty which they will face at some stage in the procedure for qualification of new products. Thus, rejection of one for the sake of the other does not take us very far.

Classification is not an undesirable process and it is not necessarily that which creates the problems in relation to the protection of a new work as a copyright work. It reflects the need for the appropriate protection for each work. Without classification at either a first or a later stage, a work runs the risk of being misplaced or left partly unprotected. This is also characteristically demonstrated in the US White Paper where it is argued that «however absent the addition of a new category, a work that does not fit into one of the enumerated categories is, in a sense, in a copyright no-man's land».<sup>546</sup> In addition the categorisation of a work allows creators and third parties to pursue their rights and fulfil their obligations relating to the particular work. In other words it is not clear whether an act is permitted under the exceptions to economic acts until one knows that the work at issue is, for example, a literary work or not. In the same sense development of works is neither secure nor even possible if an entrepreneur does not know to what he is entitled. Contract law cannot always close the gaps that are there because of the special nature of intellectual property rights and the existence of *ius cogens*

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<sup>544</sup> This was also the case with databases where legislative action was required by reason of the added value of the combination of these elements and the investment put in their combination.

<sup>545</sup> In any case it would be highly impractical for one to deal with one product if each of its components were protected under entirely different regimes of protection. Rights and obligations in relation to this product would become obscure.

<sup>546</sup> US White Paper, *op. cit.* note 25, at 43. See also WIPO, *op. cit.* note 244, at 174, where it is argued that the determination of the classification of a work is an extremely delicate exercise but it is important in so far as it determines the choice of a particular regime of protection which is appropriate to the needs of a specific work.

provisions. Classification is necessary in so far as it determines the applicable regime of protection and this regime offers the framework within which parties participate in the development, marketing and use of an intellectual property product.

### 9.1.5 Possible solutions

From a legal point of view there is much discussion relating to the abandonment of the different categories of copyright works in view of the creation and production of more and more hybrid works which cannot easily be classified. Under the current regime of protection the only possible solution for these works to be protected is their submission under the regime of protection for literary works (literary works in the sense of the Berne Convention rather than in the sense of the CDPA 1988). That, however, is as unsatisfactory as for a work to qualify for any other inappropriate regime of protection. Consequently, only three solutions are possible. Either a new classification must be introduced for the group of new technological productions (which will probably in the future take us down the route of a case-by-case study of copyright works and perhaps the need for the introduction of new categories of works) or secondly there must be an annulment of any specific categories of works and the design of a flexible copyright system which can be adapted according to the will of the parties and the works at issue.<sup>547</sup> A third solution would be the restriction of the scope of copyright only to works which are strictly literary and artistic works (restricting the copyright regime to a core of highly original and creative works as was initially intended), and the design of *sui generis* rights for the accommodation of the rest. In any event, multimedia products, in view of the difficulties they present when compared with any of the existing categories of works, require special treatment either along the lines of the introduction of a new category of copyright works or the design of a *sui generis*

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<sup>547</sup> See in this respect A Christie, "Reconceptualising copyright in the digital era" [1995] 11 EIPR 522, at 525.

category of works which will combine copyright and other 'non-copyright' provisions. In addition to that they may also call for a combined regime of protection, i.e. copyright protection together with *sui generis* protection along the lines of databases. This will form the subject of the following sections.

From a purely economic point of view, one could argue that there might not be a need for any legislative action in the area of multimedia. If under the current copyright regimes of protection a class of works is found which can even partly accommodate multimedia products, then the remaining elements of these products, which are not protected under this class of works, could arguably still be satisfactorily protected by the operation of the market. There may indeed be circumstances where the normal operation of the market takes care of the problem and offers adequate protection to multimedia products in the sense that they get the protection they deserve and that that protection goes to the persons that deserve it. On the other hand, it could be argued that multimedia products do not always appear in such circumstances. In the same sense that databases needed a *sui generis* right to correct a market failure because copyright was not capable of protecting the most valuable aspect of the average database, it can be argued that most multimedia products are not adequately protected by any of the existing copyright regimes. If their real value is found in the combination of various and numerous bits of information, interactivity and integration, no single category of copyright works can offer adequate protection. The aspect of integration is particularly highly valuable but unknown in the current copyright regimes. This means that multimedia products will lose out in terms of protection under any of the existing regimes. The additional value they present remains unprotected and in a climate of digital ease of copying at a fraction of the original investment costs, the market is unable to correct this failure through its own mechanisms. The result of this is an absence of an optimum level of protection and therefore an absence of an incentive for the creation of new high quality multimedia products since the creators cannot recoup their efforts and the entrepreneurs their investment.

In addition there is no function of the market which can compensate for those

parts of a work which are not protected under current law. The market characteristically favours trading parties which are somehow bound by an agreement or contract. It is therefore not possible for the owner of copyright in a work to bind by contract every third party which has access to his work and which can easily copy and reproduce it.<sup>548</sup> In these circumstances one can reach the conclusion that there exists a market failure requiring correction by the introduction of a new class of works or the creation of a new right.<sup>549</sup> In relation to multimedia products two options are open. Either an adequate classification can be found for a particular type of work or otherwise a new type of work or a new (*sui generis*) right needs to be created.<sup>550</sup>

#### 9.1.6 Summing up

In conclusion one can say that under some national regimes of protection a multimedia product can attract copyright protection irrespective of any classification. This is not so in the UK though. Yet under both approaches described above multimedia products are either protected under the general regime of protection for literary and artistic works or under the regime of protection for specific categories of works respectively. In both cases certain aspects of multimedia products remain unprotected. The argument that these aspects can be dealt with satisfactorily by the operation of the market is not convincing. The only

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<sup>548</sup> This depends on Privy 4 (P4) exceptions. See J Adams, R Brownsword and D Beyleveld "Privy of contract – the benefits and burdens of law reform" [1997] MLR 238.

<sup>549</sup> On the socio-economic analysis of copyright see W Landes and R Posner "An economic analysis of copyright law" (1989) 18 Journal of Legal Studies 325 ; Z Chafee "Reflections on the law of copyright" (1945) 45 Columbia Law Review 503 ; St Sterk "Rhetoric and reality in copyright law" (1996) 94 Michigan Law Review 1197. Market failure can be defined as the inability of the market to provide an optimum level of competition.

<sup>550</sup> See also E Mackaay "Economisch-filosofische aspecten van de intellectuele rechten" in M van Hoecke (ed), The socio-economic role of intellectual property rights, Story Scientia, 1991, Brussels, at 1.

solution feasible seems to be the introduction of special rules for multimedia products. The method and content of these rules is a matter to which we will return later.

## **9.2 Qualification of multimedia works according to the type of co-operation of the contributors (the French paradigm)**

### **9.2.1 Introduction**

The way in which the various contributors to a work co-operate can arguably be used as a criterion to distinguish between various categories of works. This is done to a fair extent, for example, in French copyright law. But even there the only real issue for discussion is that of authorship and ownership of copyright. It is worth examining whether such an approach makes it easier to fit multimedia products into copyright or not.

Article L113-2 of the French Copyright Act provides for three types of works according to the type of co-operation between their various contributors (collaborative, composite and collective works). 'Collaborative works' are works in the creation of which more than one natural person has participated. These works are the joint property of their authors and any rights in them are exercised by common accord. 'Composite works' are new works in which a pre-existing work is incorporated without the collaboration of the author of that work and are the property of the author who has produced them. 'Collective works' are works created on the initiative of a natural or legal person who edits them, publishes them and discloses them under his direction and name and in which the personal contributions of the various authors who participated in their production are merged in the overall work for which they were conceived, without it being possible to attribute to each author a separate right in the work as created. There is a legal presumption that these works are the property of the natural or legal person

under whose name they have been disclosed.<sup>551</sup>

### 9.2.2 Multimedia products and collaborative works

The notion of collaborative works presents certain limited attractions in relation to multimedia products. Multimedia products are indeed the outcome of the contributions of many participants who according to the traditional copyright axiom have to be compensated for their work. It is therefore fair enough to bestow on them the quality of author, together with the full panoply of exclusive rights. However, in the context of a multimedia product this presents certain inherent difficulties. First, the number of contributors involved in such a work is substantially larger than the number of persons involved in a traditional collaborative work, often reaching numbers which render any co-authorship and co-ownership of rights impractical to operate in the market. Clearing rights and reaching a common accord in these circumstances are highly difficult and risky tasks since the whole project or any future project depending thereon can be put in jeopardy if one of the authors involved does not co-operate in the end or does not agree to the further exploitation of the work. Second, not all the contributors involved in a multimedia product deserve the status of author. That, of course, is true in relation to other collaborative works, such as films, too. The technicians or people having undertaken non-creative tasks are never given authorship. Yet, in a multimedia context this distinction is not always an easy one to make. Some of the contributions involved, though technical, might also involve creative tasks because of the nature of the multimedia work. Examples are the phototypesetters, info-designers, ergonomicists, page and screen designers, index drafters, documentalists, sound engineers, designer of hypertext links,<sup>552</sup> etc. In a collaborative works regime such considerations are more problematic and have to be

<sup>551</sup> Articles L113-2 – 5 of the French Copyright Act 1992.

<sup>552</sup> A Lucas does not hesitate in considering this a creative job which is clearly within the scope of the authorship provisions of copyright. It is not entirely clear that this is necessarily an obvious conclusion though. *Op. cit.* note 320, at 148.



solved and considered at every stage where the work is used or exploited and not only at the stage of the production of the work. Even if successful financial arrangements are made there is always the risk that one of the authors might exercise his moral rights in bad faith or want to create problems in the further exploitation of the work.

In addition to that a multimedia product is also in essence not a collaborative work. There is no common inspiration of the persons involved in its production.<sup>553</sup> There is also no common work or collaboration in the same way as in a collaborative work. Even if in the beginning different kinds of individual works are meant to be put together, their individuality soon disappears by reason of the commercial function and appearance of the multimedia product. The multimedia product presents an image of merged works and contributions which can no longer be distinguished or separated. These contributions are put together by one natural or legal person. This is the person who conducts the whole project, edits the various contributions and puts them in the format of the multimedia product. It is occasionally the same person who decides the image and the marketing of the work and makes the funds available. The other scenario is where in the main there are companies that undertake all these tasks (producer) and commission other companies for the physical development, technical organisation, the form, packaging and marketing of the final product (maker or developer).<sup>554</sup> It is usually under the second company's trade mark that this product reaches the market. In the regime of collaborative works these practices are not taken into account and therefore there is no legal presumption in favour of legal persons.

Another interesting point to note is the fact that in France audiovisual works are *de jure* collaborative works. If multimedia products were to qualify as audiovisual works they would necessarily qualify as collaborative works as well.

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<sup>553</sup> Contra A Lucas who seems to suggest that there could be a collaborative work as long as there is a common project. But even he feels it is necessary to exclude certain contributors whose work does not in a creative sense contribute to the common project. *Op. cit.* note 320, at 149-150.

<sup>554</sup> See *supra* chapter 2, section 2.3 on project participants.

Whilst the combination may be attractive from certain points of view, this paragraph and the previous chapter on audiovisual works have clearly demonstrated that this is by no means the most suitable solution.

### 9.2.3 Multimedia products and composite works

Composite works<sup>555</sup> are another potential candidate for multimedia products. Indeed multimedia products contain a bulk of pre-existing works and materials in the same way as composite works. It would be unrealistic for the producer of a multimedia product to include only newly commissioned works in such a project.<sup>556</sup> It would be costly, time-consuming and on most occasions it would also be commercially unattractive. Although this is the case on most occasions, it would be equally unrealistic for one to suppose that only pre-existing works are contained in a multimedia product. New works can also be included especially in cases where the persons commissioned to produce such works are needed to offer their services until the last minute in the form of putting the finishing touches to their works once they have been incorporated into the multimedia product and merged with other contributions. However, the participation of authors other than the collector in a work prevents the work from being a composite work. It is apparent that the category of composite works was included to accommodate mainly collections of works and anthologies or derivative works such as translations, adaptations, etc. However, this type of works seems to have little in common with multimedia products.

Although composite works also have the advantage of conferring the rights of an author on the person who has realised the collection of the works, i.e. on one person, they are still inflexible on the issue of conferring authorship on any legal person.

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<sup>555</sup> Also known as derivative works.

<sup>556</sup> A newly commissioned work which is however included in a multimedia product after its completion is theoretically not rendered a pre-existing work.

#### 9.2.4 Multimedia products and collective works

Collective works seem to come closer to multimedia products than any of the previous types of works. The advantage of this classification is that irrespective of the nature of the works that are brought together and the nature of the work that results, one can establish a single rule which deals with the fact that there are multiple contributors. For the final work, however, there should ideally be one rightholder. To a certain extent what is achieved by this approach is that a work that results from the collaboration of various authors is given copyright protection and the ownership of that protection can be attributed to one person. Furthermore, given the fact that multimedia products are projects that are essentially undertaken by companies, the law provides in such situations that the company under the name of which the work is disclosed can also become the rightholder of the work. This is particularly helpful if one takes into account that it is companies that mainly invest money, know-how and personnel expertise in the creation of a multimedia product. And given the fact that multimedia products are essentially functional information-based works the fact that companies can automatically hold the exclusive rights in them substantially facilitates the trade of these works on the international market.

In addition to that, collective works stipulate that their contents are merged in the overall work without being able to distinguish between them. This seems to sit well with the nature of multimedia products, the value of which consists not only in the contributions it contains but in the added value of the overall work in which these contributions have been brought together and put in a particular format. Indeed on most occasions this format does not allow one to distinguish between the various contributions.

Perhaps the only problem in relation to collective works and multimedia products is that the author of a collective work is the person that edits, publishes and discloses the work under his direction and name. Yet the rights in the work are conferred on the person under whose name the work is disclosed, without any reference to his direction. However, this is bound to cause problems in the context

of a multimedia product. As was explained earlier, the practice with multimedia products is that the person or company that edits and publishes the work is not always the person under whose name the work is disclosed. Disclosure and marketing of a multimedia work are usually undertaken by the company that develops its technical base and which happens to have a trade mark that is capable of contributing to its market success. These particularities have not been taken into account by the drafters of the notion of collective works.

The notion of collective works is alien to most national jurisdictions.<sup>557</sup> In Belgium and in the UK, for example, there are only provisions on collaborative works and works of joint authorship<sup>558</sup> respectively.<sup>559</sup> Works that involve

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<sup>557</sup> Similar distinctions to the ones just mentioned are also found in Greece (art.7 of the Copyright Act 2121/1993), though with varying content. In Greece the notion of the French collaborative works is reflected in works of joint authorship and composite works. In both works of joint authorship and composite works there are contributions of more than one author. Composite works are composed of parts created separately by each of them and in relation to which the authors have separate rights and the right of their separate exploitation (with certain reservations). In both cases there is co-authorship of all the persons involved. In the Greek Copyright Act collective works have one author, the person under the intellectual direction and co-ordination of which independent contributions of several authors are put together. Also in this case the authors involved keep their rights in relation to their personal contributions (if these contributions are distinguishable). In other jurisdictions such as Germany (art.8 of the Copyright Act 1965), Belgium (art.5 of the Belgian Copyright Act 1994), the UK (s.10 CDPA 1988) and the US (17 USC. §101(a) (1988)), we essentially find only a category of works, called works of joint authorship (or collaborative works in Belgium) which comes very close to the French notion of collaborative works. In all these cases we have contributions of many authors which after having been put together are however no longer distinguishable. In all these cases there is joint authorship or co-authorship. In Germany there is also the category of compound works which is nothing more than the combination of works of several authors (art.9 of the Copyright Act 1965). This is also another case of co-authorship.

<sup>558</sup> In s.10(1) CDPA 1988 a 'work of joint authorship' is defined as a work «produced by the collaboration of two or more authors in which the contribution of each author is not distinct from that of the other author or authors». In the US Copyright Act (17 USC. §101(a) (1988)) a 'joint work' is «a work prepared by two or more authors with the intention that their contributions be merged into inseparable or interdependent parts of a unitary whole».

<sup>559</sup> See art.5 of the Belgian Copyright Act and s.10 CDPA 1988.

contributions of more than one person confer authorship on all the persons involved, either individually or jointly.<sup>560</sup> Only at a second stage and through the operation of a contract can a natural or legal person become the owner of the work. Still, however, moral rights remain with the author unless they have been waived in jurisdictions, such as the UK, where waivability is an option.

### 9.2.5 Conclusions

The above discussion leads us to the conclusion that collective works is the most suitable category for multimedia products.<sup>561</sup> But even here certain transformations have to be made regarding the tasks of the author and the contents of these works, which clearly come closer to the description of composite works in so far as they contain pre-existing materials. In this sense multimedia works are hybrid works (a mixture of composite and collective works) with prevailing features from the category of collective works. In this light, if one stretches the notion of collective works one might well argue that multimedia products can be considered collective works. In a French copyright system that means that a multimedia work cannot by definition be an audiovisual work, because then the legal presumption would automatically make it a collaborative rather than a collective work. Therefore, in this case one has either to go down the path of collections, databases, etc. or simply allow multimedia works (in jurisdictions where that is possible) to qualify as collective works and be given the protection of the general category of works (literary and artistic works). In such a case, of course, the inconsistencies of multimedia products with the various aspects of this regime (other than authorship/ownership) have to be

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<sup>560</sup> See ALAI, Audiovisual works and literary and artistic property, Paris, 1995, (report on conference held at the Unesco), at 734. Although 'collective works' in France do not confer authorship on all the persons involved they still result in favouring even the authors of most insignificant pre-existing works more than those directly involved in the project who add the 'added value'. A Latreille, "*La création multimédia comme oeuvre audiovisuelle*" [1998] JCP (édition générale) I. 156 (n°31-35, 29 Juillet 1998).

<sup>561</sup> See also B Edelman, *op. cit.* note 316, at 114.

considered separately.

Although this is a valuable conclusion in relation to French multimedia products, it can only be of limited value for those countries that do not provide for the category of collective works in their copyright laws. Even in France though this conclusion is not particularly helpful for identifying the regime of protection of multimedia products. Identifying a copyright work as a collective work solves only the issue of authorship and ownership. It is not capable of offering a complete regime of protection for multimedia products. In this sense even if the conclusion that multimedia products are collective works is a conclusion which one can arrive at with a substantial degree of certainty, it is still not a solution capable of solving the problems of the protection of multimedia products. In any copyright system one still has to assess multimedia products on the grounds of their nature rather than the type of co-operation between their various contributors.<sup>562</sup> In conclusion, the approach that starts by categorising a work as collective or collaborative provides only a stopgap solution in practice in those countries where a detailed categorisation by the nature of the work is not required. If a work deserves some form of copyright, then the approach provides workable answers in terms of ownership. The fundamental questions of the nature of a multimedia work and its broader regime of protection are not resolved at all though.

### 9.3 Qualification of multimedia works according to their nature

In the previous chapters we have had ample opportunity to discuss the distinctive features of multimedia works which can be summarised as follows: *a combination of several different kinds of works into an integrated digitised entity allowing users to interact substantially with its contents.*<sup>563</sup> We also discussed the

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<sup>562</sup> Even if this conclusion is helpful for French lawyers in relation to multimedia products whose marketing is territorially restricted within France, it is not helpful in relation to internationally marketed products. Disparities in the protection of the same products in the various states can only cause confusion and bewilderment on the international market.

<sup>563</sup> As P Sirinelli points out, if the nature of a multimedia product is not defined then there is little

various classifications provided in the national copyright laws which relate in some way to multimedia products, i.e. traditional literary works, compilations, databases, audiovisual works and computer programs. Thus, we have reached a stage where we have to draw some conclusions as to the nature of multimedia products and how this nature relates to existing copyright categories of works.

Before we enter any discussion relating to the categorisation of multimedia products one point should be clarified. Not all multimedia products are the same. This thesis clearly focuses on the second generation of multimedia products which possess versatile or creative interactivity. Even multimedia products that are found in that category can differ from one another. However, there are common characteristics found in all advanced multimedia works which render them distinctive.<sup>564</sup> To what extent these characteristics will remain unchanged by future technological developments in the area is an issue upon which we can only speculate.

Amongst the five categories of copyright works that we examined, three categories can immediately be excluded as candidates for accommodating multimedia products. These are the categories of traditional literary works, conventional compilations and computer programs. We demonstrated that works found in the first two categories, mainly comprised of text, or text and images in the case of compilations, are found in a standard hard copy format and cannot be altered. Interactivity is a notion which is alien to them. In relation to computer programs it has been demonstrated that the only similarity they possess with multimedia products is that they constitute a part of them: their technical base.

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sense in introducing new legislation which would create further demarkation problems and would bring about a solution in the light of the changing nature of multimedia products. However, one should add that this approach presupposes the existence of a general fall back category of copyright works. In France, for example, this category always offers some level of protection but in the UK (to take the other extreme example) no such category exists, which means that the advantage of the solution disappears. Sirinelli Report, *op. cit.* note 172, at 70.

<sup>564</sup> These characteristics are pointed out in the second chapter of this thesis on the definition of multimedia products.

Classifying a multimedia product as a computer program would therefore disregard all the visual aspects of the work which make it valuable and which appear in addition to its technical base. The nature of all three of the above categories of works is far removed from the nature of any multimedia product.<sup>565</sup>

The remaining categories of works which come closer to a multimedia product are those of audiovisual works and databases. However, although audiovisual works capture some of the visual effects of multimedia products, they fail to accommodate the variety and changing nature of their contents; interactivity precludes any set 'sequences of images'. In addition to that, audiovisual works are mainly comprised of images, whereas multimedia products contain images but only as a part of their contents. In reality they contain all kinds of works and data which on most occasions translate into text.

Databases seem to overcome this hurdle. Any kind of work (e.g. text, images, music, etc) can be contained in a database. On top of that no 'sequences of images' are required. In fact the notion of databases is antithetic to any sequences of images altogether. However, the problem here is that it goes even further than that and requires the elements included in it to be individually accessible. The presence of interactivity in a multimedia product prevents the access of elements in the same way as a database. The contents of most multimedia works are merged in such a way that what is accessed and retrieved contains bits and pieces of various elements that have been entered in the work in a first phase. Entries that have been

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<sup>565</sup> It must always be clear that the various categories of copyright works were traditionally designed to accommodate conventional forms of creations which have only little to do with new technology products. The argument that the form of creation is of no relevance for the protection of this creation as a copyright work in most continental systems, carries little weight in the issue of affording to a work the appropriate regime of protection. (See A Lucas' argument that 'there are no creations which are protected by their nature', *op. cit.* note 320, at 141). Although this declaration is true in relation to the French copyright system (whilst definitely not true in relation to UK copyright law), it is perhaps of little value when one tries in practice to fit a work into a particular regime of copyright protection if there are specific provisions relating to the nature of the works coming under this regime of protection.



independently inserted in a multimedia work and which are then as such independently retrieved by users of this work is a case which only rarely relates to the nature of a multimedia product.<sup>566</sup>

In the light of the above the following conclusions can be drawn. There is nothing to exclude the possibility of multimedia products qualifying as either films or databases as long as they possess the necessary characteristics of one of these categories of works.<sup>567</sup> Yet, parallel qualification of a multimedia product as both an audiovisual work and a database is not possible, not only doctrinally,<sup>568</sup> but also according to the EU database Directive which prevents films from qualifying as databases.<sup>569</sup> Splitting a multimedia work into various parts and protecting them on their own merits is also not a viable solution. It causes confusion on the market as to the identity of the authors/rightholders and the rights owned by them and loses sight of the multimedia work as a whole (meaning the collection and arrangement of its elements in a way that is both comprehensible and interactive) and its added value.

Although advanced multimedia products might in rare cases qualify as audiovisual works or databases, this might often be the case with multimedia products of the first generation.<sup>570</sup> That is explained on the basis that the former as

<sup>566</sup> Yet, it is more likely that a multimedia work qualifies as a database than as an audiovisual work.

<sup>567</sup> The literature in the area of multimedia works initially favoured the qualification of multimedia works as audiovisual works, this being consistent also with the decisions delivered in many countries with regard to video games. See B Edelman, *op. cit.* note 316, at 115. Recently this tendency in literature seems to have been abandoned in favour of databases. The introduction of the EU Directive on the legal protection of databases, the broad definition of the notion of databases (many relate it to the electronic version of a conventional compilation) and the fact that also a *sui generis* (unfair competition law) regime has been put in place for the investments with regard to databases has made this regime of protection look even more attractive. Yet, as discussed in the relevant chapter on databases, reservations remain as to the requirements of its entries to be 'individually accessible'.

<sup>568</sup> See *supra* s.6.5.2 on the possibility of cumulative protection of works.

<sup>569</sup> Recital 17 of the database Directive, *op. cit.* note 47.

<sup>570</sup> Examinations of the nature and needs of early multimedia works prompted many commentators

well as the ones to come are more complex works with a qualitatively higher degree of interactivity allowing users to manipulate and intervene in the contents of the work through sampling, blurring, etc. Multimedia products of the second generation are essentially hybrid works that cut across many categories of works and are not capable of being fitted in any of the existing categories of copyright works. Even if the regime of protection of these categories might theoretically serve the needs of multimedia products well (which as we proved can only rarely be the case), it is not possible to afford them the regime of protection of a category of works with whose nature they have little or nothing in common. Expansion alone of the existing categories of copyright works in order to accommodate multimedia products within their regime of protection would still need separate legislative action<sup>571</sup> in the same way the introduction of a *sui generis* regime within or outside the scope of copyright would.

#### 9.4 A hybrid product in need of a *sui generis* copyright classification

We have come to the conclusion that although multimedia products cut across many categories of works, still there is no perfect match with any of them. We are presented with a 'vide juridique' (i.e. a complete absence of directly applicable legal rules). It therefore follows that if we are to protect multimedia products effectively, new legislation is required either as a means of introducing a separate category of protection within copyright or abandoning copyright protection altogether and heading towards an unfair competition law right. The

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to think that any legislative action on these grounds would be premature. Yet, they all seem to have their reservations as to whether this will also be the case in relation to future developments in the area. See in this respect the Sirinelli Report, *op. cit.* note 172, at 78 seq. See also the national reports delivered in ALAI Conference on Audiovisual works and literary and artistic property in Paris in September 1995, as they were published in the minutes of this conference at pages 722 seq. (in relation to the 3rd question of the questionnaire concerning multimedia products and the need of transforming the current national copyright laws).

<sup>571</sup> Purposive or teleological interpretation of the existing copyright laws cannot take us far.

first solution presupposes that multimedia products are creations which are original and therefore still merit copyright protection. The second one acknowledges that in reality it is the contents and the investment in money, time and effort that makes the multimedia product valuable and not the presence of any originality. A third solution would envisage the combination of the two along the lines of the EU database Directive.

Before discussing any of the three potential options one should address the problems deriving from an attitude towards new technology products that alleges that the role of copyright is not to protect works (products) and is definitely not to facilitate creation. Copyright law protects authors.<sup>572</sup> Any transformation of the law would only adjust it to this emerging new reality which is not necessarily compatible with the primary objectives of intellectual property at least from a continental law perspective. Since authors are protected according to the existing copyright regimes, the issues of creation/production can be solved through the operation of the market, unfair competition law, contract and lastly technology. The latter are only side issues when compared to the protection of the author or authors of the multimedia work.

The fact is that no matter how one defines copyright protection (e.g. protection of the author rather than the creation) one still touches on the relationship between the author and his work. In section 9.2 we demonstrated that a regime of protection which is not well placed to accommodate multimedia products can only afford protection to the wrong authors.<sup>573</sup> That however cannot be remedied either by the operation of the market or that of the contract. We explained that the market and the contract bind people that are parties to the same deal or transaction. They do not bind third parties that have access to the work and to whose financial benefit it is to copy as much as possible in order to avoid

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<sup>572</sup> This is the French approach. The UK approach however is different when compared to the continental one. It clearly protects works. The provisions for authors are weaker than those on the continent (diminished moral rights, employer's rights, film producer's rights, etc). In this sense UK copyright seems to be better placed to protect new technology products.

<sup>573</sup> See *supra* s.9.2.

additional costs in the creation of identical or similar products. Such a situation jeopardises the rights of authors by putting at risk their efforts and investments. Without securing their intellectual labour and the investment that is needed to put it in the format of a product *erga omnes* the system hits a blockage which cannot easily be overcome, if at all. It is true that the author of new technology works does not have much in common with a traditional author and that increasingly the creation has become production, the value of which does not depend so much on the personal authoring of the work as it does on team work and market needs. This, however, is not a good reason to leave authors of the new era unprotected. Protecting the creation is like protecting the author and facilitating his work is in fact giving him an incentive to continue to produce. The fact that his productions are dictated by the market and the new reality does not signify that the author is a second class author it rather signifies that the needs of present societies have changed and it is on this basis that the authors and their works should be assessed. Unfair competition protection in its turn falls short of taking into account principles of creation, intellectual effort and originality since it is based on a market orientated approach. It therefore presents problems analogous to those we discussed in relation to the market. In addition to that, technology constitutes an essential argument but as we will discuss later in this thesis, technology and technological devices alone without the legal basis that legitimises them is still not a solution.

I think that there is only little doubt that multimedia works can be original creations of the mind. This is also the reason that justifies their protection under copyright law. The fact that they do not currently fit in any of the existing categories of copyright works is clearly not an indication that they do not deserve copyright protection.<sup>574</sup> It is rather an indication that there is a need for the introduction of a separate category for multimedia works in copyright law which will take into account digitisation, the inclusion of several different kinds of works

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<sup>574</sup> In the same way films and sound recordings deserved protection well before their introduction in the national copyright acts.

in one product and above all interactivity.

In this category of works there should not be such a thing as prevailing elements. All kind of works can possibly be included, irrespective of their nature and initial format. Digitisation will indicate the large factual capacity of multimedia works and their form of expression which clearly departs from any conventional form of expression or carrier without however affecting the nature of the works included.<sup>575</sup> The works that are included do not lose their original status once they are digitised. They co-exist as parts of a larger entity. The fact that the elements included in a multimedia work are merged should also be mentioned. As such it does not preclude the instance where some works might not be merged (or entirely merged with others), but it facilitates any potential regime of protection with regard to the rights of the authors of the works included as well as to the rights of users.<sup>576</sup> Interactivity is important from two points of view. First, because no standard sequence or format of contents is required and second because the lack of standard format (or the intention of lack of standard format) offers users the freedom to elaborate or intervene in the work without infringing potential rights of authors. The combination of various kinds of works irrespective of their conventional earlier format, digitisation and interactivity will undoubtedly be the essential common characteristics of any new technology products. From that point of view many future developments in the area can well be accommodated by this new category of works.

Dropping copyright protection in relation to multimedia products altogether is not a viable option. First, copyright has an internationally well-established regime of protection which allows a substantial degree of co-operation and

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<sup>575</sup> Providing for a separate category of 'digitised works' is not an option since works do not lose their primary nature after being digitised, e.g. a musical work remains a musical work, etc. A Lucas with reference to M Fisor, "*Les nouvelles technologies et le droit d'auteur: besoin de changement, besoin de continuité*" in WIPO Worldwide Colloquium on the future of copyright and neighbouring rights, (WIPO 1994), at 227. Contra A N Dixon and L C Self, "*Copyright protection for the information superhighway*" [1994] EIPR, at 467.

<sup>576</sup> E.g. rights to disclosure, moral rights, etc.

reciprocity between the various states. Over and above that it has proved itself all along to be the most effective means of protection, perfectly capable of protecting new technology products. The common currency of intellectual creations has not been overtaken in any respect and therefore there is no reason to abandon the only protection that is going in this direction. However, this argument is not there to exclude the introduction of any *sui generis* or unfair competition rights in relation to intellectual property products which come close enough to a practice of industrial production and involve also issues of investment which cannot be successfully tampered with by copyright, especially in relation to creations which are not original. This was the case with databases. Here an unfair extraction/re-utilisation right has been introduced in relation to the contents of a database in the obtaining, verification or presentation of which a qualitatively or quantitatively substantial investment was made.<sup>577</sup> If a database is original the unfair extraction right comes on top of its copyright protection to prevent third parties from extracting almost the same contents for use in a different structure or arrangement. If the database is not original, the maker of the database would still not jeopardise his investment in bringing these elements together should third parties be ready to copy them. That may also be the case for multimedia products. The investment put in in relation to their elements might be so substantial that it has to be afforded separate protection. This is especially true for multimedia products which are not original and therefore do not attract copyright protection. In addition, the way these elements interact with each other can also form the subject of an unfair competition law right (c.f. the *sui generis* right for databases) if it is commonplace in terms of originality but hard enough in terms of e.g. investment to bring to realisation. Although interactivity derives from the computer program that operates the multimedia work, still the way this operation is projected on screen can form the subject of a separate right.

In conclusion the best possible solution seems to be the introduction of a new category of copyright works, i.e. multimedia works plus the introduction of a *sui*

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<sup>577</sup> Art.7seq. of the EU database Directive, *op. cit.* note 47.

*generis* right relating to the investment put into the contents of the multimedia work and perhaps to the way its interactivity is presented on screen. This can set the foundations for special provisions on the protection of multimedia products, which, although they will closely relate to the existing provisions, will still be adjusted to their specific needs. This will form the subject of the following chapter.

## CHAPTER X

### A REGIME OF PROTECTION FOR MULTIMEDIA PRODUCTS

#### 10.1 A copyright regime for multimedia products

No existing copyright regime can perfectly accommodate multimedia products.<sup>578</sup> Yet there is no doubt that on most occasions multimedia products constitute creations which are original and therefore merit copyright protection. In this chapter we will discuss the configurations of a specially tailored copyright protection for multimedia works, which, as will be shown, should be an amalgamation of the regime of protection for audiovisual works and that for databases.

In order for a work to qualify for copyright protection under UK copyright law it has first to come within a category of protected works. For that purpose and given the fact that no current category of copyrightable material is capable of accommodating all forms of multimedia products, a separate category for multimedia works should be introduced.<sup>579</sup> In this category multimedia works should be defined as *works which combine (on a single medium) more than one different kind of expression in an integrated digital format, and which allow their users to manipulate their contents with a substantial degree of interactivity.*<sup>580</sup> The

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<sup>578</sup> G Schricker, *Urheberrecht. Kommentar*, 2. Auflage, München, 1999, at 1381 and at 84. J A L Sterling, *World copyright law*, Sweet & Maxwell, 1999, at 201. According to Sterling a multimedia work can be described as a 'mediagraphic work' with a particular emphasis on interactivity. See also S Jones, "*Multimedia and the superhighway: exploring the rights minefield*" (1996) 1 Communications Law 28, at 32.

<sup>579</sup> As we have demonstrated in earlier chapters, introduction of a separate category of multimedia products should equally be the case in civil law systems if we take into account the fact that the general category of literary and artistic works does not meet the needs of multimedia products.

<sup>580</sup> The fact that these works are found on a single medium should be implied by the definition. In the same way the fact that the format of these works is digitised is implied by the fact that this is



essential features of the second generation of multimedia products are the combination of various kinds of expressions on a single medium to a larger extent than ever before, the predominantly integrated and merged format of the works once they have been incorporated in the multimedia product, as well as the fact that the degree of interactivity that they offer to users is well above any primitive form of interactivity. Indeed it almost goes as far as to offer 'creative' roles to the users of the multimedia product.<sup>581</sup>

The issue of how many of the various expressions are required to qualify as well as the degree of integration of these expressions, should be left open. The means of producing, delivering, presenting and manipulating these works, either as products or services, should also remain open. Technology in recent decades has progressed on a fast track and for that very reason any new legislation has to achieve the challenging and particularly difficult task of combining precision and flexibility. Inflexible legislation is deemed to fall short of future developments and fail to meet its task as technology-proof legislation. Moreover, multimedia technology, though substantially developed, is still at the first stages of a greater evolution that is to follow.

Before we enter the discussion relating to the substantive provisions of such a regime of protection for multimedia products, we should first, perhaps, answer the question of whether all multimedia applications should come within this definition and therefore be protected by the regime of protection we are to

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the only way of integrating works which are at the same time interactive. Interactivity as such implies the use of a computer program. To what extent, of course, these two will remain distinguishable in the future is an issue which can only be answered by future technological evolutions in the area. Issues which are implied can well be left out of the definition of multimedia products, or put in Recitals or introductory points to the legislation. It is always better for legislation to remain short and general.

<sup>581</sup> Even from the definition one can appreciate that there must be an amalgamation of audiovisual works and databases. The feature of combining more than one expressions in a integrated manner is clearly an audiovisual feature. Whilst, digitisation and manipulation with the aid of a software tool is a feature relating closely to databases.

describe. It may after all be expedient to offer protection under this regime only to those multimedia products which are clearly hybrid works and therefore incapable of attracting protection under one of the existing categories of copyright works. As we have mentioned earlier in this thesis, the medium on which a work is carried or the digitisation of the works are not features capable of changing its nature. In other words, a musical work remains a musical work even after its digitisation or its incorporation into a multimedia product, an interactive encyclopaedia remains a literary work, etc. What, however, is likely to bring alterations to the initial nature of the work is its integration with other expressions and the presence of a substantial degree of interactivity. If for example, a musical work has been integrated as a sound background in a multimedia product, the work does not lose its value if it is to be exploited separately, but the whole multimedia work will of course not be considered a musical work, even if the predominant element in it is sound. What, however, makes things more problematic is what happens in cases where an audiovisual work has taken the format of a multimedia product. In the author's view, interactivity is capable of transforming the nature of the work. If the frames and pictures of the audiovisual work at issue can be transformed, manipulated and tampered with, the audiovisual work is no longer for example a film but a multimedia product. On the other hand if the manipulation of the contents is only minimal and not capable of affecting the 'sequence of images' of the audiovisual work, then its nature remains unaffected. In the latter case, of course, we do not in the first place have a multimedia work since the prerequisite of the 'substantial degree of interactivity' is lacking. Thus, it is highly unlikely that we will have cases where more than one category of works will clash with another, although we cannot surely exclude cases where the facts might themselves put a work on the borderline between more than one category of works. This, however, is not unusual for copyright law.<sup>582</sup>

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<sup>582</sup> For example, a digital encyclopaedia can equally well be defined as a literary work, a compilation or a database. Under the current copyright regime, of course, it is more likely that it will qualify as a database. See s.3(1)(a) CDPA 1988.

### 10.1.1 Originality in relation to the content of the multimedia work rather than the selection and arrangement of its contents

If a multimedia work qualifies for copyright protection, it goes without saying that it also has to be original. That, of course, is not necessarily so for the CDPA 1988. If a multimedia work is to be compared to a film or a sound recording then originality is not a necessary attribute. Section 5B(4) of the CDPA 1988 provides that a film qualifies for copyright protection to the extent that it is not copied. One could argue at this point that the CDPA 1988 aims to exclude the possibility of the same film attracting copyright protection on more than one occasion when multiple copies are made for its exploitation. This, of course, could equally imply that if a film is not copied it should involve at least some minimal effort on the part of its author. In other words a minimum of skill and labour has been invested, though perhaps not to up the same level as the one required for literary or other works. On the continent, films and audiovisual works in general are subject to the same originality criterion as any other copyright work. That is in general for a work to be an expression of its author's personality.

When one seeks to introduce new legislation in the area of copyright, one has also to decide on the level of originality required since originality is one of the yardsticks used to define which works merit copyright protection and which do not. With regard to computer programs and databases, the European Union came to the conclusion that the best possible originality criterion is for these works to be their 'author's own intellectual creation'.<sup>583</sup> However, computer programs and databases are both works of low creativity, with primarily a functional character. For low creativity works usually a low originality criterion is operated if copyright protection is desirable. Otherwise most works will remain unprotected. The above mentioned criterion seems to satisfy this test. Arguably, this criterion lowered some continental law criteria that required a high degree of creativity and

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<sup>583</sup> Article 1.3 of the software Directive, *op. cit.* note 95 and article 3.1 of the database Directive, *op. cit.* note 47.

originality and which linked the creation of these works to the personality of the author. It is also arguable that the EU originality criterion comes very close, or is a slightly more demanding version of the UK 'skill and labour' requirement.<sup>584</sup>

If in relation to computer programs and databases such a criterion is found to be suitable, the argument should be that since multimedia works are in the main more creative works, at least the same or a higher originality criterion should be sought. If even for purely functional works one requires a minimum level of creativity and originality before granting copyright protection, then surely one should not grant copyright protection to multimedia works that do not reach this minimum level. After all, in relation to multimedia works creativity is more important and is part of the value represented by the work. That value makes copyright desirable in order to stimulate the creation of more.

Ideally the operation of a high originality criterion for more creative works (in the case at issue, multimedia products) is more likely to leave out those works which do not present a substantial enough reason to be granted exclusive rights and therefore restrict competition on the market. Such conduct would afford rights to authors that could not be compensated by increased activity at the level of innovation and creation. In other words they would constitute unjustifiable monopolies. Yet a decision to go above this standard would, politically speaking, be impractical. First, there is the need for a uniform criterion of originality. Disparities between Member States can only cause inconvenience and uncertainty on the international market. Second, a compromise has already been struck at Community level between the EU Member States. Aiming at a different standard of copyright protection would be a very time-consuming and difficult task, and on most occasions would be bound to fail. Sticking to the present approach is a step that facilitates harmonisation and uniformity in the area.

When one alleges that a multimedia work is original, it is not clear what one necessarily means. One can either refer to the contents of the work as a merged entity, as is the case with literary and artistic works, or to the selection and

<sup>584</sup> See I Stamatoudi, *op. cit.* note 56, at 448.

arrangement of the various contributions put in it along the lines of databases.

It is not uncommon for one to find multimedia works which closely resemble databases in the sense that their contents retain their individuality after they have been inserted into the multimedia work and though interactive they are still individually accessible. That undoubtedly leads us to the conclusion that in this case the multimedia product at issue is nothing more than a database. And it follows that it qualifies as a database without presenting any further problems of qualification and protection. Yet most multimedia works, because of their nature, are presented on screen in a merged way. Interactivity and hypertext links allow items to be viewed in isolation but these items, though individually projected, are not independent. Although they might have been inserted in the multimedia work independently, it is bits and pieces of these works that come on one's screen as separate retrievable items. Each of these items contain elements of many works merged in the multimedia product, and although the operational system of the multimedia product allows the user to browse through them, it does not allow him access to the individual materials initially inserted in the multimedia work.

From the above it becomes clear that originality should be assessed in relation to the contents of the multimedia work rather than the selection and arrangement of its contents. The selection and arrangement of the contents of a multimedia work are important only at a pre-production stage, when the work is conceived and the ingredients are assembled in order to make up the final image. Nothing of this selection and arrangement is retained in the final production stage of the multimedia work. Everything appears as one coherent entity which is capable of being viewed in parts (in a format other than that in which the various works have been initially entered) through the operation of interactivity. Any originality in relation to the initial selection and/or arrangement of the materials of the multimedia product would disregard their subsequent transformation through a sewing and a merging process. The birth of a totally new and separable work which constitutes the added value of the multimedia product would be disregarded. Apart from that, the existence of creative interactivity alone, capable of morphing,

blurring and transforming the original contents (though not permanently) of the multimedia work, discredits any notion of selection and arrangement. Even if contents, after their use, return to their original status, they still represent no more than a selection and arrangement along the lines of words in a literary work or melodies in a musical work.

### **10.1.2 Exclusive economic rights of authors and their exceptions**

#### **10.1.2.1 Economic rights**

Since we came to the conclusion that multimedia products deserve copyright protection, that means that we fully accept that they are also entitled to the full panoply of exclusive rights which are attached to that copyright protection.<sup>585</sup> In section 16(1) of the CDPA 1988 these rights are referred as 'acts restricted by copyright',<sup>586</sup> and they are expressed in the following words. «The owner of the copyright in the work has...the exclusive rights...(a) to copy the work (b) to issue copies of the work to the public (ba) to rent or lend the work to the public (c) to perform, show or play the work in public (d) to broadcast the work or include it in a cable programme service [and] (e) to make an adaptation of the work or do any of the above in relation to an adaptation». In the copyright laws of most States these rights are summed up as two essential rights: the right of reproduction (in the broad sense) and the right to communicate the work to the public.<sup>587</sup>

<sup>585</sup> In many countries exclusive rights are held to include both the pecuniary and the moral rights of the authors. However, the latter will be discussed later in a separate section.

<sup>586</sup> This follows from the fact that copyright in the common law tradition is essentially approached as a right to prevent copying.

<sup>587</sup> In French law pecuniary rights include the right of reproduction, performance (or representation) and the *droit de suite* (art.L122-1seq. of the French Copyright Act 1995). The *droit de suite*, however, does not apply to multimedia products since the cases where their production will be of a limited number of copies will be almost non-existent. Exceptionally, artists make unique single copy multimedia installations which can be classified as artistic works for copyright. In these cases

In relation to the aforementioned rights, multimedia works do not seem to present any problems. They are works reproduced and communicated to the public in the same way as any other copyright work and it is in respect of these acts that the owner of the copyright in the work requires protection and exclusivity. However it is likely that in the era of new technologies and on-line services, it is the rights relating to these means of reproduction, communication and distribution that will become more relevant. In this context reproduction will have to be redefined. The definition of reproduction should be refocused in such a way that it includes reproduction by any means, whether in material form or not, and whether in a permanent or a temporary form.<sup>588</sup>

As the US White Paper<sup>589</sup> puts it, reproduction is held to take place in all the following cases:

- «When a work is placed into a computer, whether on a disk, diskette, ROM, or other storage device or in RAM for more than a very brief period....<sup>590</sup>
- When a printed work is 'scanned' into a digital file....
- When other works – including photographs, motion pictures, or sound recordings – are digitised....
- Whenever a digitised file is 'uploaded' from a user's computer to a bulletin board system (BBS) or other server....
- Whenever a digitised file is 'downloaded' from a BBS or other server....
- When one file is transferred from one computer network to another....<sup>591</sup>

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the *droit de suite* applies. See in this respect M Salokannel, Ownership of rights in audiovisual productions. A comparative study, Kluwer Law International, 1997, at 320seq. However, the list of these rights is not exhaustive.

<sup>588</sup> Most copyright laws have been designed in an era where reproduction was closely related to hard copies and to the notion of permanence. Digitisation and computer technology have redefined the notion of reproduction.

<sup>589</sup> Page 65seq.

<sup>590</sup> *MAI Systems Corp. v. Peak Computer, Inc.*, 991 F.2d 511, 519 (9th Cir.1993).

<sup>591</sup> According to the US White paper multiple copies are made in such a case. «For example, if an author transfers a file (such as a manuscript) to a publisher with an Internet account, copies will

- Under current technology, when an end user's computer is employed as a 'dumb' terminal to access a file resident on another computer such as a BBS or Internet host, a copy of at least the portion viewed is made in the user's computer. Without such copy in the RAM or buffer of the user's computer, no screen, display would be possible.»

This seems to be in line with the recent legislative initiative of WIPO<sup>592</sup> and the EU draft Directive<sup>593</sup>. The WIPO Performers and Phonograms Treaty tried to clarify and harmonise the reproduction right in all these countries where it was not clear that this right included also temporary or incidental reproductions in the electronic/digital environment.<sup>594</sup> However, it is only the reproduction right relating to computer programs and databases that is fully harmonised within the EU. In the two above mentioned EU Directives the acts of reproduction and the legitimate exceptions to them are defined. Temporary reproductions are included in

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typically, at a minimum, be made (a) in the author's Internet server, (b) in the publisher's Internet server, (c) in the publisher's local area network server, and (d) in the editor's microcomputer. It has been suggested that such «copying» of files in intermediate servers is only of transitory duration and consequently not covered by the reproduction right. However, it is clear that if the «copy» exists for more than a period of transitory duration, the reproduction right is implicated. Whether such a reproduction is an infringement is a separate determination». *Op. cit.* note 25, at 66, note 205.

<sup>592</sup> Article 11 of the WIPO Performances and Phonograms Treaty, 20 December 1996 (hereinafter WPPT). The right of reproduction has been defined in the WPPT alone and not in the WCT because it was judged that this was where the problem lay. In relation to copyright the situation seemed to be abundantly clear in the Berne Convention.

<sup>593</sup> Art.2 of the EU draft Directive 1997, *op. cit.* note 170, «...the exclusive right to authorise or prohibit, direct or indirect, temporary or permanent reproduction by any means and in any form, in whole or in part...». This part has remained unchanged in the amended proposal for a European Parliament and Council Directive on certain aspects of copyright and related rights in the information society [1999] OJ C180/6.

<sup>594</sup> However, this was considered to be a clarification rather than an extension of the existing right, since art.9(1) of the Berne Convention covers all these situations as it provides that «authors of literary and artistic works protected by this Convention shall have the exclusive right of authorising the reproduction of these works in any manner or form».



the right of reproduction and the list of exceptions is exhaustive.<sup>595</sup>

The fact that more and more multimedia products will be distributed on-line does not seem to create any special or exceptional problems in so far as multimedia services present the same problems as any other work distributed on-line. The problems raised by the increasing number of cases where reproduction of the work in material copies is replaced by on-line distribution,<sup>596</sup> rendering the exclusive reproduction right less valuable and ever vulnerable, has been addressed by the inclusion in international copyright law of a new exclusive distribution right. This is found in the WIPO Copyright Treaty<sup>597</sup> and in the Draft EU Directive,<sup>598</sup> and it makes it clear that on-line distribution of a work is a restricted act for which the copyright owner is entitled to remuneration.

Although reproductions which take place whilst a work is transmitted are covered by the reproduction right, the right of transmission as such is not covered. In fact the distribution right applies only to the distribution of physical copies. New forms of use and exploitation of intellectual property rights have given rise to the need for more or extended rights. Interactive on-demand transmission is such a new form of exploitation. These forms of exploitation have presented two difficulties in relation to the existing copyright laws. First, it was not clear that it was covered by the right of distribution (since it applied only to physical copies).

<sup>595</sup> Article 4 of the software Directive and art.5 of the database Directive, *op. cit.* note 47.

<sup>596</sup> On-line distribution of copyright works does not exhaust the rights in them within the EU.

<sup>597</sup> Article 6 WIPO Copyright Treaty, 20 December 1996 (hereinafter WCT). «Authors of literary and artistic works shall enjoy the exclusive right of authorising the making available to the public of the original and copies of their works through sale or other transfer of ownership». This right already existed in most copyright laws either as a separate right or as part of the communication to the public right.

<sup>598</sup> Article 4 of the draft European Parliament and Council Directive on the harmonisation of certain aspects of copyright and related rights in the Information Society, *op. cit.* note 170. «Member States shall provide authors, in respect of the original of their works or of copies thereof, with the exclusive right to any form of distribution to the public by sale or otherwise». This part has remained unchanged in the amended proposal for a European Parliament and Council Directive on certain aspects of copyright and related rights in the information society [1999] OJ C180/6.

and it was not clear that it was covered by the right of communication to the public since communication to the public presupposed someone delivering a work to users rather than users picking up the works themselves irrespective of time and place. In addition to that, in some countries on-demand transmissions were considered as non-public communications and therefore were left unprotected. This situation has been amended by the definition of the communication to the public right in the WCT and the EU draft Directive 1997. They both extend this right specifically to include communication by wire or wireless means, even if the public decides when and from where it will access the work.<sup>599</sup>

### 10.1.2.2 Exceptions to economic rights

The issues explained above do not lead us anywhere in particular in relation to multimedia products and services since these problems are common to any intellectual product or service. Yet the aforementioned rights come with some exceptions which legitimise actions that would normally constitute infringements. In relation to multimedia works no specific aspects of such exceptions are to be found. Overall the exceptions apply to multimedia works in much the same way as they apply to any other copyright work.

In relation to the reproduction right, private copying is usually allowed in some civil law countries either as such or as fair dealing for the purposes of research and private study only in the UK and similar systems, with the exception at present of computer programs and electronic databases. In the case of computer programs, private copying is only allowed when the person having the right to use

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<sup>599</sup> Article 8 WCT, «...authors of literary and artistic works shall enjoy the exclusive right of authorising any communication to the public of their works, by wire or wireless means, including the making available to the public of their works in such a way that members of the public may access these works from a place and at a time individually chosen by them». Almost identical wording is used by art.3 of the EU draft Directive 1997, *op. cit.* note 170. This part has remained unchanged in the amended proposal for a European Parliament and Council Directive on certain aspects of copyright and related rights in the information society [1999] OJ C180/6.

the computer program is making a back-up copy.<sup>600</sup> This exception was largely dictated by the nature of computer programs. Being functional tools, data corruption and failure of the program could cause severe difficulties to the persons already possessing a licence to use them. In relation to electronic databases<sup>601</sup> the philosophy behind this exception is not tied to the nature of the work as such but is one underlying all digital works. In the digital era, the ease of copying, the fact that cloned copies are produced in an infinite number without any loss in quality and the difficulty of tracing illegitimate acts to that end seemed to advocate for the outlawing of the exception of private copying altogether. In addition to that a harmonised regime of exceptions in all member States would facilitate trade and integration in the Internal Market. Extending this legal choice generally to all digital and analogue works, albeit for different reasons in relation to the latter,<sup>602</sup> is under severe scrutiny and debate in the context of the adoption of the EU draft Directive 1997.<sup>603</sup> The WCT and WPPT do not offer any guidance on this point.

The introduction of this exception in relation to multimedia products is not dictated by any features relating to their nature since multimedia works should on most occasions not be considered as functional tools. If such an exception is adopted, it will be done only on the basis of their digital nature; probably consistent with any decision taken in relation to all digital works at an EU level. At an international level the option is left with the States in the absence of any compelling provision in the Berne Convention and the WCT and WPPT Treaties.

With the aim of harmonisation in the digital era in mind there is much discussion in the context of the EU draft Directive concerning the reduction in length of the list of exceptions in general. Fewer exceptions, applied almost in a

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<sup>600</sup> Article 5.2 of the software Directive, *op. cit.* note 95.

<sup>601</sup> Art.6.2(a) of the database Directive, *op. cit.* note 47.

<sup>602</sup> See page 31 of the Proposal for the Draft Directive 1997, where it is alleged that analogue copying is increasingly disappearing, *op. cit.* note 170.

<sup>603</sup> *Op. cit.* note 170. See also the amended proposal for a European Parliament and Council Directive on certain aspects of copyright and related rights in the information society [1999] OJ C180/6. See also E Tucker, "Copyright plans win backing", Financial Times 11.2.1999.

uniform manner in all Member States, is also thought to create a level playing field in the European Union which will promote further integration on the Single Market.

However, what might eventually need redefinition are factual concepts such as what constitutes a substantial part of a work which one is allowed to use legitimately in an English context, what is considered fair dealing in relation to research and private study, criticism, review and news reporting. The same would also apply to fair use in a US context. In view of the composite nature of multimedia products and the fact that they are capable of including an indefinite or extremely large number of works, the notion of a substantial part must be a decision on qualitative rather than quantitative grounds. Extraction of even a tiny part of a multimedia work might constitute extraction of a whole work attracting copyright on its own merits and whose place in the multimedia product might be of significant value. Such occasions might need to be outlawed explicitly.<sup>604</sup>

*In toto*, one could allege that all the above suggestions relate to the general issue of how digital works should be treated in the information society rather than to the particular nature of multimedia products. In this respect multimedia products seem to present the same problems as any other copyright work. The potential redefinitions of certain concepts, such as fair dealing or fair use, do not demand separate legal treatment but they can be based on a purposive interpretation of the law, subject to the new reality and the needs emerging therefrom.

### 10.1.3 Authorship/Ownership

The questions of authorship and ownership of multimedia works have been answered more or less in the chapter relating to the qualification of multimedia

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<sup>604</sup> P Sirinelli, in his Report on multimedia products mentions the fact that the right of citation, as it is found in French law, might not be applicable in a multimedia context. Sirinelli Report, *op. cit.* note 172, at 70. That is especially so in relation to all works that constitute compilations or anthologies and their contents comprise whole works.

works according to the type of co-operation between their contributors.<sup>605</sup> In this section we will only try to draw together the ideas found throughout this thesis.

In order for a multimedia work to be created there is the necessary prerequisite of several contributions. These contributions take the form of protected works (irrespective of the fact that they are in copyright or their copyright has expired), data (factual information which does not attract copyright, though it might attract some other kind of protection, i.e. know-how, trade secrets, contractual) or of technical assistance. Technical assistance can vary in nature. It might vary from the design of the technical base of the multimedia work (i.e. the computer program, indexes and other operational material) to the integration of the various materials in the multimedia work. It may also relate to the marketing and distribution of the product. The technical contributions just mentioned may or may not involve creative aspects and consequently may or may not confer the quality of author to their contributors.

Another feature relating to these contributions is that the persons providing them might or might not be involved in the project of the multimedia work in the sense of co-operation or co-authorship.<sup>606</sup> In other words the works included in a multimedia product might have been commissioned works or they might simply have been pre-existing works. In both cases the role of the authors delivering these works cannot be predetermined (i.e. as co-operation). The authors of the pre-existing works might have put the finishing touches to their works in order to adjust them to the image of the multimedia product or they might not have done so. Alternatively the authors of newly commissioned works, whilst producing the works, might not have taken into account any specifications relating to the multimedia project and might simply have delivered the works by reason of a contract without any special provision for the incorporation or adjustment of their

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<sup>605</sup> Section 9.2.

<sup>606</sup> Co-authorship requires some kind of direct or indirect participation. Distant relationships as such should not qualify, i.e. when one creates a work which is commissioned for the project at issue but without knowing or having taken into account any details or particularities of the project.

work into that multimedia product. On the other hand they might have followed a particular plan they had been told to follow or which they needed to follow. In other words there is no standard practice which neatly fits one or other category of definitions.<sup>607</sup>

### 10.1.3.1 Alternative approaches

According to the above scenario three solutions are possible. One is to grant authorship to all the persons involved in the production of a multimedia work whose task is somehow creative. Although the various contributions in a multimedia product may be creative on their own merits, this creativity is not necessarily reflected in the final image of the product. The editor is the person who gives the final form and creates the product. He puts the various elements together, in the same sense as the compiler of a collection of works or the director of a film. The difference with these authors though is that the editor of the multimedia product goes one step further. He integrates the various materials to such a degree that on most occasions the final outcome does not resemble in any sense the individual contributions that have been incorporated in it. The multimedia work is a new work and the integration<sup>608</sup> of its materials represents the 'added value'.

In addition to that if one considers the number of persons involved in the creation of a multimedia product and the number of the various tasks undertaken by reason of the specialisation that exists today in the entertainment industry, one also realises that any notion of co-authorship has either to be construed extremely broadly or be abandoned altogether in relation to multimedia works. In any case the infinite number of contributors precludes any notion of collaboration and co-authorship, at least in the traditional sense of the word. The solution of co-

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<sup>607</sup> In that sense multimedia products cannot be considered to be collective, collaborative or composite works with any degree of certainty. In a UK context it is difficult to define whether a work is a work of joint authorship or not.

<sup>608</sup> This aspect of multimedia works is also emphasised by F Koch, "*Software – Urheberrechtsschutz für Multimedia – Anwendungen*" [1995] GRUR 459, at 463.

authorship is only viable for works with a limited number of contributors, i.e. films and other audiovisual works. Most multimedia products today have an infinite number of contributors. From a practical point of view there is the difficulty of defining which tasks undertaken by the various persons are creative and which are not, especially in an environment where original creations are mainly commissioned on a pre-defined basis and can therefore be compensated by the provision of a fee. Creativity in this instance is not the pure creativity attached to traditional copyright works. Granting authorship to these persons, and thus full economic and moral rights, on most occasions clearly goes beyond the remit of their task.

A second solution granting authorship to only a number of the persons involved in the creation of a multimedia product is still not a viable solution. First, the tasks in the creation of a multimedia product are not clearly defined and we might end up with situations where we will have persons that have not participated in the project as co-authors whilst others that have participated will be left out. Second, if one wants to be fair one has to grant authorship to all potential creative contributors. That, however, still brings us back to the problems of the first solution. The more authors there are the more cumbersome is the creation, marketing and further exploitation of a work. Even if there were a legal presumption<sup>609</sup> in favour of transferring the economic rights to the publisher/producer or the editor of the multimedia work, the initial authors would still be in possession of moral rights. The possession of moral rights by more than one person in relation to a work is bound to cause more problems than the case where one only person is the possessor of the moral rights in the work. Thirdly and most importantly, only the editor's role is prominently creative in relation to the multimedia work. Contributors only offer the tools to that creative task.

The solution we are left with is that of single authorship. In contrast with UK copyright law, in most continental law systems only natural persons are entitled to

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<sup>609</sup> This solution receives support from U Loewenheim, « *Urheberrechtliche Probleme bei Multimediaanwendungen* » [1996] GRUR 830, at 832.

authorship. Legal entities and companies can never become *ab initio* authors but only acquire ownership at a second stage by the operation of a contract or by *cessio legis*. As we explained above the solution of the one author seems to sit very well with the process of creating a multimedia product. In that sense the editor of the project should be granted the status of author and therefore a full panoply of economic and moral rights.

A possible model of authorship which could fit multimedia products in a UK context is the British model on films. Authors of a film are both the director and the producer.<sup>610</sup> The first on grounds of his creative role (that also constitutes the reason of granting him moral rights protection<sup>611</sup>)<sup>612</sup> and the second on grounds of his investment. The task of a director in a film can well be compared to that of the editor of a multimedia product in the sense that he conceives the idea and realises it through the selection and arrangement of the various contributions. However, the editor of the multimedia work, by bringing these contributions together and integrating them in the product as a whole, creates the added value of the product. In that sense he creates a new work which is distinguishable in relation to the initial contributions and which goes further than any compilation or film. The task of the producer of a film can also be compared to that of a multimedia work in the sense that the investments of both are valuable for the production and the marketing of the work. Granting authorship to the producer is in fact securing the investment he has put in the project.

Moral rights are not granted to producers, however. In the case of employment, this model changes slightly in the sense that the employer has by law all the economic rights vested in the work, whilst the employee is left only with moral rights protection.<sup>613</sup> In relation both to films and to multimedia works such a scenario can be a regular one. In conclusion we should say that if we are to follow

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<sup>610</sup> S.9(2)(ab)CDPA 1988.

<sup>611</sup> Initially the producer was the only author of a film. The director was added because of the introduction of the EU term Directive.

<sup>612</sup> Ss.77, 80 and 84 CDPA 1988.

<sup>613</sup> S.11(2) CDPA 1988.



the UK model on films, then both the editor and the producer should be the joint authors of a multimedia work.

In a French copyright law system the solution of single authorship can be achieved through the definitions of collective or composite works.<sup>614</sup> In fact we could say that multimedia products are a mixture of collective and composite works.<sup>615</sup> The author of the work should be presumed to be the person bringing together and merging the various contributions, i.e. the editor of the work. To this person both moral and economic rights must be afforded, since authorship and first ownership of the works are concepts which are inextricably linked on the continent. However, in the case of employment a *cessio legis* should vest the economic rights in the work in the producer of the multimedia product along the lines of the French model on computer programs.<sup>616</sup> The producer is usually the natural or legal person under whose name the work has been disclosed<sup>617</sup> if that is not simply the name of the company responsible for the technical base, the trade dress and the marketing of the product. In the latter scenario the presumption should be rebutted and the economic rights should be vested in the person having initiated and funded the production of the work. Investment should be the decisive point.<sup>618</sup>

The solution of single authorship (even if it is awarded jointly to two persons) seems to be ideal from two points of view. Firstly, it reflects the reality of the creation of a multimedia work and secondly it overcomes the hurdles of multi-co-authorship at an early stage. In an era where use, clearance of rights and further exploitation of a work have to take place easily, quickly and with a great degree of

<sup>614</sup> L113-2 of the French Copyright Act 1992.

<sup>615</sup> Neither of them fits exactly, but according to French copyright law one has to make a choice and select one of them.

<sup>616</sup> L113-9 of the French Copyright Act 1992.

<sup>617</sup> L113-5 of the French Copyright Act 1992.

<sup>618</sup> In such cases it would perhaps be helpful if on the package of any multimedia product and on the license that is delivered with it the name of the owner of the economic rights in the work and a note as to who holds the moral rights in the work should be found.

certainly the option of one author can only offer greater efficiency without at the same time taking any well-deserved rights from other contributors. These contributors still have rights in their separate contributions and can use them as long as they do not compete with or cause harm to the initial multimedia project.

### **10.1.3.2 A harmonised approach for the new category of multimedia works**

Up to now we have been concerned primarily with the existing national approaches and solutions that could be devised according to these approaches. However, we feel that there is a need to create a special category of copyright works for multimedia products in which special rules apply. Earlier on we have indicated how this category should be defined and which rules should apply in terms of originality. We have now come to the conclusion that multimedia works cannot simply use the system designed originally for compilations and films. In a multimedia work there is normally a full integration of the components and this leads to a high added value. That integration and added value are provided by the editor of the multimedia product who can therefore be seen as the creator of the work. Thus, it seems logical to suggest that a harmonised European model should designate the editor of a multimedia work as its author. As the author of the work the editor would also have the moral rights in the work and become the first owner of the copyright in the work.

Two additions need to be made to this system. The first one deals with the reality that on most occasions multimedia works are created in the course of employment. If the editor is an employee and he creates the work in the course of employment, the harmonised model should provide that the employer rather than the employee becomes the first owner of the copyright in the work through the operation of law. This idea can be copied from the existing provision in the CDPA 1988 and it is interesting to note that in similar circumstances where most works are created in the course of employment and at the instigation of the employer both

the French and the Belgian Acts operate a similar rule in favour of the employer of the creator of a computer program. The second addition proposes a slight change to the rule on authorship to take account of the important *ab initio* contribution of the producer of the multimedia work. In the same way that the UK approach to films recognises that contribution by awarding authorship of the film both to the director and the producer, it could be envisaged that the editor and the producer of a multimedia product would both be considered to be the authors of the product. They would then also both get the first ownership of the work. In our opinion, this is a second best solution. The producer's interest is primarily of an economic nature and in most cases that interest will be taken care of by the automatic transfer of ownership to the employer. In the cases that fall outside the employment context, the producer will normally be able to arrange a transfer of ownership through contract. A departure from the logical rules on authorship according to our model is therefore not warranted.<sup>619</sup>

#### 10.1.4 Moral rights protection

Moral rights protection in relation to multimedia products has been a highly disputed issue. The problems which immediately arise from it are the following. How wide should the scope of moral rights protection for authors of multimedia products be? Should this protection be concentrated in the hands of one principal author alone, and if that is the case in whose hands and to what degree? Where do producers and users of multimedia products stand with regard to the problem of authenticity of multimedia works? Are authors' moral rights capable of impeding the production and marketing of multimedia works? To what extent are multimedia works by their nature (and method of distribution) a threat to their authors' moral rights? Should we reinforce or restrict the scope of moral rights?

The section which follows will attempt to provide some answers to these questions. The discussion will be divided into two main parts. Firstly, the existing

<sup>619</sup> This is also the approach advocated by U Loewenheim, *op. cit.* note 608, at 832.

UK and French regimes of moral rights protection as applicable to the author or authors of multimedia products will be examined both in their present format and in the format they could possibly take if new legislation were to be introduced at national level. Secondly the possibility of a harmonised regime on moral rights will be explored.

#### **10.1.4.1 Existing regimes of moral rights protection**

##### **10.1.4.1.1 The UK approach**

The starting point for our discussion will be the CDPA 1988. According to this Act authors are entitled to four moral rights. The right of paternity, the right of integrity, the right to object to false attribution and the right of privacy. If we take into account that the right to object to false attribution is theoretically included in the right of paternity (since one should not only have the right to see one's work attributed to oneself but also the right not to see a work that is not one's own being so attributed), and the fact that the right of privacy only refers to photographs and films, we are left with only two genuine moral rights, which make sense in a multimedia context, the right of paternity and that of integrity.

According to the British right of paternity the author of a work and the director of a film have the right to be identified as such in relation to their work.<sup>620</sup> This right does not apply in relation to computer programs, designs of typefaces and computer-generated works. Neither does it apply in relation to employee-authors and to a number of other cases referred to in the law as exceptions to the rights of attribution.<sup>621</sup> Lastly, in order for the right to apply it has to be asserted.<sup>622</sup>

The British right of integrity provides that the author of a work or the director of a film have the right not to have their work subjected to derogatory

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<sup>620</sup> S.77 CDPA 1988.

<sup>621</sup> S.79 CDPA 1988.

<sup>622</sup> S.78 CDPA 1988.

treatment, meaning any distortion or mutilation of a work which is prejudicial to their honour or reputation.<sup>623</sup> This right does not apply in relation to computer programs, computer-generated works and in a number of other exceptional cases.<sup>624</sup> No special provisions for employee-authors or directors are found and no assertion is required.

In the UK system all moral rights can be waived at any time in relation to a specific work or generally to any work or works, either existing or future.<sup>625</sup> Moral rights are non-assignable<sup>626</sup> and they expire together with the economic rights in the work.<sup>627</sup>

As can be seen, the scope of moral rights in the CDPA 1988 is very restricted and industry orientated. This is not only derived from the limited number and scope of moral rights in comparison to other copyright systems but also from the fact the CDPA 1988 allows a global general waiver in relation to moral rights. In this system entrepreneurs are clearly put in a favourable position in relation to authors (by reason of their bargaining power), whilst authors are granted limited protection only.

If the British provisions on moral rights are applied to multimedia products, the following can be observed. The author of a multimedia work will not be entitled to the right of paternity if he hasn't asserted it, if he has waived it or if he is an employee of the producer of the work. This last situation will occur often. Apart from the secondary exceptions that the CDPA 1988 provides for with regard to the right, this right applies. The author will only be able to invoke his integrity right in situations where he can prove that the producer or a third party have tampered with his work to such an extent that his honour or reputation have been prejudiced. It goes without saying that alterations to the work dictated by the needs of production, commercialisation and marketing of the product will almost never

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<sup>623</sup> S.80 CDPA 1988.

<sup>624</sup> S.81 CDPA 1988.

<sup>625</sup> S.87 CDPA 1988.

<sup>626</sup> S.94 CDPA 1988.

<sup>627</sup> S.86 CDPA 1988.

qualify as infringements. If the author has waived his moral right of integrity he will not be able to invoke it even in situations where damage to his honour or reputation is the ultimate result.<sup>628</sup>

Moral rights are afforded to the creator/author of the work. According to the analysis in the section on authorship, we have reached the conclusion that the author of a multimedia product is the editor or the editor and the producer, if one follows the British model on films. That would mean that depending on the model that applies, either the editor or the editor and the producer could receive moral rights. It needs to be clarified though that the existing UK model for films denies moral rights protection to the producer. The producer is only given the economic rights in the work by reason of his investment and not by reason of exercising any creativity in it. If the editor of the multimedia work creates the work in the course of his employment then the issue of moral rights becomes irrelevant because there is no recipient for them.

#### 10.1.4.1.2 The French approach

On the continent things are quite different. If we take the example of the other extreme of moral rights protection within the EU, France, we will note that in this country, as in most civil law countries, authors are afforded full moral rights protection. First, the list of moral rights of authors is longer. The rights of divulgation, withdrawal and access to the work once the material support on which it is incorporated has been transferred, are added to the rights of paternity and integrity.<sup>629</sup> In addition to that there is no requirement of prejudice to the honour or reputation of the author in relation to the right of integrity. Any change in the work is sufficient. Moral rights in France are also inalienable, perpetual and non-

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<sup>628</sup> This is only the case for a global waiver. In other cases it depends on the rights he has waived. For the position in England see I Stamatoudi, "Moral rights of authors in England: the missing emphasis on the role of creators" [1997] IPQ 478. See also C Doutrelepon, Le droit moral de l'auteur et le droit communautaire, Bruylant, Brussels, 1997.

<sup>629</sup> Articles L121-1 – L121-9 of the French Copyright Act 1992.

transferable.<sup>630</sup> Waivability is not allowed under any circumstances, although certain actions that might potentially infringe an author's moral rights might be permitted, subject to the particular facts and needs of each case. This, of course, is derived from a teleological and purposive interpretation of the law. Lastly, there are no special provisions for employee-creators apart from the case of computer programs.<sup>631</sup>

Such a broad moral rights protection seems to present problems in relation to multimedia products, particularly if there is a rigid application of the provisions of such a regime. Yet French law restricts the scope of moral rights in relation to certain works either by reason of their functional character or by reason of the needs for their production. Computer programs come within the first category. With regard to computer programs the right of integrity only applies to modifications of the work that are prejudicial to the honour or reputation of the author.<sup>632</sup> The right of withdrawal does not apply at all in relation to computer programs.<sup>633</sup> Audiovisual works come within the second category. With regard to audiovisual works the moral rights of the authors are restricted until the work is completed (i.e. only during the production level), and that is when a final version is established by common accord between the director (and possibly the other authors) and the producer.<sup>634</sup> After completion of the audiovisual work the moral rights of the authors are restored but a slight preference is given to the director. When an audiovisual work is transferred to another kind of medium with a view to a different mode of exploitation it is the director's prior consent that is required<sup>635 636</sup>

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<sup>630</sup> Art.L121-1 of the French Copyright Act 1992.

<sup>631</sup> Art.L121-7 of the French Copyright Act.

<sup>632</sup> *Ibidem*.

<sup>633</sup> *Ibidem*.

<sup>634</sup> Art.L121-5 of the French Copyright Act 1992.

<sup>635</sup> Article L121-5 of the French Copyright Act 1992.

<sup>636</sup> According to M Salokannel « the reason why the obligation of consultation is rendered only with respect to the film director is that the transfer of the film to another kind of medium affects only the

Unless multimedia products in France come within the scope of the regime of protection of computer programs or of audiovisual works, they are granted a full panoply of moral rights. Any potential introduction of new legislation for multimedia products in French law will only seek to introduce restrictions in the area of moral rights if multimedia products are proven to be an exceptional case either on grounds of their functional character or because of the needs for their production. Indeed multimedia products seem to fall squarely within the second category, perhaps to an even greater degree than audiovisual works. Both in audiovisual works and in multimedia products the investments for their production are important. On top of that comes the fact that in a multimedia work there are many more contributors than in a film and therefore the risk of hurdles and obstacles to their creation and release becomes more apparent. In the light of this a restriction of moral rights at the production level might be worth considering.

Multimedia products are also an exceptional case with regard to their use. For that reason they might not only require a restriction of moral rights at the production level (as is the case with audiovisual works) but also after their commercialisation. Interactivity inevitably leads to the conclusion that the contents of a multimedia product are intended to be altered, adapted, modified, etc. Any such change can go well beyond any normal changes that a work traditionally undergoes, such as morphing, blurring, etc. Of course, on most occasions these changes will last as long as the use of the work,<sup>637</sup> whilst in other cases they will be saved for further use and they may even be circulated to other users.

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framing of the film and the general filmic representation, which is ultimately composed by the director. Consequently the changing of format may affect only the moral rights of the director, since the dialogue or the music, for example, do not suffer from this. The practical significance of this provision has been questioned in the literature, since by choosing not to complement the consultation obligation with any sanctions, the provision has little practical bearing », *op. cit.* note 586, at 273. See also footnotes 572 and 573, where he refers to Edelman, 1993, at 21 and 55.

<sup>637</sup> Usually the contents of a multimedia product are altered during the use of the work. They return to their original format once the use is ended (cf. video games).



#### 10.1.4.2 Towards a harmonised approach to moral rights

Before we enter the discussion on the ideal harmonised regime of moral rights protection in Europe in relation to multimedia products, it should be noted that it is not certain that such a harmonisation will necessarily be needed in the event of the introduction of new legislation in the area of multimedia products. Such a regime will only be envisaged if it can be demonstrated that the disparities in moral rights between the various national copyright laws are capable of creating hurdles in the trade between the EU Member States. If that is not the case, the various countries will be able to keep their existing moral rights provisions, perhaps with slight alterations along the lines of those that we are to describe, in order to fit the new reality. However, given the highly commercial character of multimedia products and the fact that their marketing takes place mainly on the international market, as well as the apparent economic repercussions moral rights have in the digital era, a harmonised regime on moral rights would introduce further safety and certainty in transactions.<sup>638</sup>

The particularities of multimedia products in comparison to other copyright works are the following. First, multimedia products involve many contributions in their creation, large investments in their production and the materials included in them are usually subject to adaptations and modifications for technical, financial or other equivalent reasons. Second, multimedia products by reason of their interactive nature are intended to be modified, transformed or adapted in the course of their use. Third, multimedia products are delivered and used in an environment that facilitates transformation and change to an infinite degree and allows users to

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<sup>638</sup> « Digitisation and interactivity, by its very nature, will lead to a substantial increase in alterations of works and other protected matter, which will also affect moral rights. As these works will, as a general rule, be destined for Community wide exploitation, differences between Member States' legislation in the field of moral rights may lead to significant barriers to their exploitation, notably in the field of multimedia products and services ». Communication from the Commission, Follow-up to the Green Paper on Copyright and Related Rights in the Information Society, COM(96) 568 final, Brussels, 20.11.1996, at 28.

feed back to the system inauthentic and altered material. This is especially so in relation to on-line distributed material where the hurdles of the analogue format of the hard copies have disappeared completely. The issue of moral rights should be considered in two stages. First at the stage of production and second at the stage of commercialisation and communication of the work to the public. The second stage encompasses considerations both on the part of the authors and producers and on the part of the users.

#### **10.1.4.2.1 Moral rights at the production stage of multimedia works**

The first issue we should look into is the moral rights issue at the stage of the production of a multimedia product. As we mentioned above the large number of contributors to a multimedia work is also likely to create problems in its realisation. However, such delays cannot be afforded because of the tight dates within which a multimedia product has to be produced in order to catch the market as well as with regard to the substantial investments its creation requires. Films present similar problems. Therefore a possible solution could be that the moral rights of contributors at the production level of a multimedia product should be designed along the lines of the French model on audiovisual works. That might be considered necessary in order for the required adaptations and transformations to take place and the completion of the work to be achieved. However, although such a model provides for a stopgap solution at the production level of a multimedia work, it provides no solution whatsoever for the stage after completion.

After completion the authors of the contributions can once again exercise their moral rights. Yet in the case of multimedia products the final version is bound to include a modified version of the original contributions by reason of the nature of the product. This is so to a much larger extent than in relation to films. In practice the effect of this rule is simply that a discussion on whether or not the integrity right has been infringed is postponed until the completion of the work. In the light of the above, a partial waiver, restricted to certain acts only might be a

more desirable and effective solution to this end since it provides certainty for the stage after the completion of the multimedia work.

#### **10.1.4.2.2 Moral rights after the completion of the multimedia work**

##### **10.1.4.2.2.1 The rights of divulgation, withdrawal and access to the work**

The second stage we should look into is the stage after the completion of the work. At that stage one should examine all moral rights one by one and their operation in a multimedia context. As we pointed out in the section on authorship/ownership, the author is also the holder of moral rights in the work. The editor of the multimedia product should be considered as the author of the work. The full list of moral rights that authors are afforded in a continental context are the rights of divulgation, withdrawal of the work, paternity and integrity. In a common law system the first two rights are missing. The right of divulgation gives the author the right to decide whether he releases his work and what form his work takes once it is released on the market. In a digital environment where control of disseminated material is not always easy, it is useful both for the author to protect creations that he does not consider as being complete and for the public not to receive works and information that are not backed by the authors under whose name they appear. Yet the right of withdrawal seems to be of diminished value for two reasons. First, once a work has been distributed to the public, its withdrawal might impinge on the rights and works of third parties that have relied on the initial work. In a digital and on-line environment the author has to think through the works he releases very carefully before these works enter the public domain. Any withdrawal afterwards will be difficult and nonsensical in an environment that disseminates information in bulk. Second, even if the right of withdrawal is afforded to authors of multimedia works its practical value will be limited since its exercise on the part of the author may result in a large amount of damages being payable by the author for breach of contract, a situation which may restrict its

exercise.<sup>639</sup> The right of withdrawal has very little practical significance because of the various conditions that are attached to it. In practice it is hardly ever used and it will become even harder in a multimedia context.<sup>640</sup> In a multimedia products context the right of access to the work seems meaningless. It can only retain its value in relation to multimedia works which are artistic, unique and limited in number. In those cases these multimedia works will qualify as artistic works anyway and will therefore enjoy full moral rights protection.

#### 10.1.4.2.2.2 The right of paternity

The fact that the author of a multimedia work should have the right to have his work attributed to him (or not attributed to him if it is not his work) has a two-fold importance in a digital context. First, it represents one of the essential human rights-based rights that should be granted to any author of a copyright work as part of his personality. Secondly, in a digital environment where pirated material is difficult to distinguish from original, the right of paternity helps to assure the public that what it receives on its screen is the original work and not copies that have been tampered with. Such a right should be absolute. It should not be subject to additional requirements or formalities, e.g. assertion. It should also not be waivable. And it should be granted to authors irrespective of whether they are independent creators or employees. Assertion, waivability and special provisions for employee-authors contradict the provisions of the Berne Convention and undermine the public's interest in obtaining original material.

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<sup>639</sup> Countries that do not expressly provide for such a right in their moral rights provisions nevertheless offer some protection in similar situations via the economic rights of authors.

<sup>640</sup> It will be difficult for the author if he wants to withdraw a multimedia work to compensate the producer of the work by reason of the large investments that are usually sunk into multimedia products.

#### 10.1.4.2.2.3 The right of integrity

The right of integrity seems to be the one right that has been subject to most scrutiny in the digital era. That is essentially because, as the cornerstone of moral rights protection, it finds itself lying between two seemingly conflicting trends. One advocates for the restriction of the author's right of integrity in view of the intended use of multimedia products. Interactivity necessarily means that the contents of the work will be changed. That can also be considered as the normal use of a multimedia product. On the other hand technically there is no obvious limit to how much the contents of a multimedia work should be changed. That means that one is offered the opportunity of going well above what is allowed. And that fear in a multimedia context has become more serious than ever before. Thus, the second trend advocates for a reinforcement of the right of integrity.<sup>641</sup>

Reconciliation of these two trends is not an easy task. Many commentators prefer to take the view that a solution can only consider which of these two trends one prefers to favour. Excision of one may impinge on the freedom of users, whilst excision of the other may impinge on the interests of the authors. Yet the balance here should not be struck between the interests of the public and those of the authors. In fact in the case at issue, the interests of the authors in not having their work unaltered unduly seem to coincide with those of the public that has a right to receive authentic and unaltered works. Along these lines of thought the propositions outlined below seem viable.

##### 10.1.4.2.2.3.1 A first solution

One idea is to follow the German model on cinematographic works. Article 93 of the German Copyright Act provides that «[t]he authors of a cinematographic

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<sup>641</sup> « A large number of parties, notably rightholders and end users, are in favour of strong and coherent moral rights protection across the EU», Commission Communication 1996, *op. cit.* note 638, at 28.

work and of works used in its production, [...] may prohibit [...] only *gross distortions or other gross mutilations of their works or of their contributions*, with respect to the production and exploitation of the cinematographic work. Each author and the rightholder shall take the others and the film producer into due account when exercising the right» (emphasis added). According to these terms, a restriction of the right of integrity to only those cases where gross distortions of a multimedia work have taken place (and where in the assessment of these distortions the rights of the other interested parties are also taken into account) might prevent claims of moral rights that are either unjustified or far-reaching. If one wants to restrict the right of integrity even further, one can add the requirement that the author's right of integrity is infringed only if there is damage to the author's honour and reputation. This view is based on the Anglo-Saxon presumption that a distortion or mutilation does not necessarily prejudice the author's honour and reputation.<sup>642</sup> Such an additional requirement would, within the scope of normal use of a multimedia work, clearly allow any change of the work that does not go as far as to impinge on the author's honour and reputation.<sup>643</sup> However, this solution is very restrictive since it already gives away a substantial part of the author's integrity right without his consent. That can also be held as retrogression in the law on moral rights. In addition to that it should be rejected on the grounds that it allows changes in a work to a degree, which, although not affecting the author's honour and reputation, does nevertheless affect the right and

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<sup>642</sup> The Japanese Report on the new rule on intellectual property for multimedia gives two alternatives (Exposure '94 Report, at p.26). One amounts to an integrity right that only comes into operation once the threshold of prejudice to the author's honour and reputation has been passed, whilst the second one treats that threshold as a ceiling that cannot be removed and installs also a system of contractual waivers which will be «valid as long as [they] would not prejudice the author's honour or reputation» which is to apply to all other changes. The Report of the Institute of Intellectual Property (February 1994) does not make a final choice between these alternatives. See also *infra* note 645 and 654 in relation to the point made in this respect by A Dietz.

<sup>643</sup> This proposition relates to Gendreau's views on this issue. "*Digital technology and copyright: can moral rights survive the disappearance of the hard copy?*" [1995] 6 Ent.L.R 214, at 220.

original form of the work. This solution does not satisfactorily address either the concerns of the authors or those of the public on that issue.

#### 10.1.4.2.2.3.2 A second solution

A second proposition that has been put forward is the introduction of a concept of fair use or fair dealing against which the right of integrity will be assessed. Dietz proposes a list of criteria along the lines of the ones provided for in section 107 of the US Copyright Act that should be taken into account in order for one to determine whether there is an infringement of the right of integrity or not. These criteria can be the «[...] nature and intensity of modifications of or other interference of the work, as well as its reversible or irreversible character; the number of people or the size of the public addressed by the use of the infringing work; whether the author created the work in an employment relationship or as a self-employed author, or whether a commissioning party had or did not have decisive influence onto the final result of the creation; also the possible consequences for the professional life of the author, and, of course, for his honour and reputation have to be taken into consideration».<sup>644</sup>

Another criterion that can also be proposed is that the more creative (original) a work is the more strictly the right of integrity should be applied to it.<sup>645</sup> This proposition might prove to be very important especially in relation to multimedia products and their multifarious nature. Yet if the above proposition applies, any infringement of the right of integrity will only be decided after a litigation process. That means that the context of the right in relation to multimedia works will be determined, formed and standardised through case law on a case-by-case basis. This, however, does not seem to be a very desirable option on two

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<sup>644</sup> A Dietz, "Legal principles of moral rights in civil law countries" (1993) 11 Copyright Reporter 1, at 15 ; and (1995) 19 Columbia – VLA of L & Arts 199, at 225.

<sup>645</sup> A Dietz, "Authenticity of authorship and work", General Report ALAI Study Days, Amsterdam 4th to 8th June 1996, in Copyright in cyberspace, ALAI and Otto Cramwinckel (1997), 165-178, at 175-176.

grounds. First of all it would in fact transfer the responsibility for the definition of the content of the right from the legislative arena to the judicial one. Even if such conduct is dictated by the variable nature of multimedia products, it would nevertheless create uncertainty on the market. The more a right is defined at an early stage the better delineated are the obligations and responsibilities of the parties. The court should be there to define the particularities of each case at a second stage only, and with regard to the appreciation of concrete notions, such as, for example, honour and reputation, if one opts for that criterion. In addition to that, such an approach necessarily allows countries substantial discretion to adopt and refer back to their traditional views on this point. If one takes into account that moral rights are perhaps the one issue in copyright that presents the most substantial differences in copyright traditions, one also realises that if we go down the path of the case-by-case approach, it will be extremely difficult at a later stage, should the need arise, to harmonise moral rights protection at European Union or international level. Our moral rights approaches with regard to multimedia works will already be far apart and almost irreconcilable by that time.

#### 10.1.4.2.2.3.3 A third (best) solution

An alternative (third) and more desirable solution seems to be that of the provision of a partial waiver. The Belgian and the German copyright law model seem to provide for such a solution. According to the Belgian copyright law an overall waiver of moral rights for the future is void.<sup>646</sup> Moral rights can be waived in relation to specific cases that are strictly defined in relation to existing works only.<sup>647</sup> Even in cases where the moral right of integrity has been waived in

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<sup>646</sup> Art.1§2(2) of the Belgian Copyright Act 1994.

<sup>647</sup> Court of Appeal, Brussels, 29.09.1965, JT 1965, p.561, *La veuve joyeuse*, « a general authorisation to make changes that are desirable to the work is void. But what is acceptable is to conclude an agreement in full knowledge of what the changes are going to be as long as that agreement is given with the explicit consent of the author ». « For the past, a general waiver is possible but even then it cannot be implied ». Cour de Cassation, 13.11.1973, [1973] LXXX RIDA



relation to a specific case, the author always retains the right to object to any distortion or mutilation or any other change of the work that damages his honour and reputation.<sup>648</sup> Honour and reputation constitute the ceiling of the integrity right, above which no waivability is permitted. The Belgian provision on waivability tries to exclude the risk that is clearly present in the CDPA 1988 model which consists of the request for a general waiver for the future becoming part of the negotiations for the initial publishing contract. Obviously in such a situation the stronger party, i.e. the publisher, can put a large amount of pressure on the author to consent to such a waiver. Such waivers are not possible in the Belgian model, and the specific and partial waivers that are allowed necessarily come into play once a publishing contract has been concluded and the work is subsequently put to another use. At this stage the publisher no longer has the opportunity of making the publication contract subject to the waiver. On the contrary he is now the party that wants to be allowed to make further use of the work and the author can decide whether or not such use is acceptable taking into account the type of use and the royalty that is on offer.

German copyright law reaches the same conclusion via another route. According to German copyright law the right of integrity is not an absolute right. It is only justified if the interests of the author are protected.<sup>649</sup> That conclusion can be reached only through a balancing of interests. This technique has been developed in a number of cases.<sup>650</sup> Dietz summarises the outcome of this test as follows.

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62 and Austrian Supreme Court, 1.7.1986, [1986] EIPR D-211.

<sup>648</sup> Art.1§2 in fine of the Belgian Copyright Act 1994. « Notwithstanding any renunciation, [the author] shall maintain the right to oppose any distortion, mutilation or other alteration to his work or any other prejudicial act to the same work that may damage his honour or reputation ». See in this respect J Corbet, *op. cit.* note 116, at 59.

<sup>649</sup> The integrity right is not an absolute right. It only applies if it is to protect the author's justified interests. Art.39§2 and art.14. See also H Schack, *op. cit.* note 380, at 158-164.

<sup>650</sup> Bundesgerichtshof, [1982] GRUR 107, Kirchen – Innenraumgestaltung; Vgl BGHZ 55, 1. 3, [1971] GRUR 35, *Maske in Blau* (operette) OLG Frankfurt/M [1976] GRUR 199, at 202, *Götterdämmerung*.

«[C]hanges or modifications in the process of exploitation of a work, which would be solely dictated by artistic and aesthetic convictions and concepts of other persons (especially the user of the work) would not be acceptable, whereas those dictated by the concrete technical, financial and circumstantial conditions of the exploitation of the work would have to be taken into consideration in the process of balancing interests. This is also recognised even in French law in the special case of adaptations of a work, a situation which, under modern conditions, exists more often than one would expect, since adaptation in the technical but not necessarily creational sense of the word appears rather the rule than the exception»<sup>651 652</sup>.

A narrowly construed waiver in relation to certain acts with regard to existing works seems to be the ideal solution for multimedia products. First, if it is limited and restricted in scope along the lines of the Belgian model it does not compromise the rights of the authors in any respect. In fact it allows them to consent to particularly defined actions in relation to their work and in most cases after a publication contract has been concluded, which shifts the bargaining power that publishers and producers usually have in the case of global waivers. In addition to that, whatever is not mentioned in such a contract is presumed not to have been allowed by the author. If the author makes things too difficult for publication and use, he will anyway *de facto* exclude himself from the multimedia market. Such a solution fully respects the choice of the author and gives him the

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<sup>651</sup> A Dietz, ALAI, *op. cit.* note 645, at 174.

<sup>652</sup> As the Resolution of the Executive Committee of ALAI points out «a certain flexibility in the application of copyright law with regards to authors' moral rights...should also permit authors to include certain clauses in the contracts which they enter into with users of their works, regarding the exercise of their moral rights subject to strict limits, in specifically determined cases, a prohibition on assignment of moral rights as well as a global waiver of same must in essence be maintained as the basic corner stone of authors' protection, as guaranteed by the Universal Declaration of Human Rights». See ALAI (ed), Le droit moral de l'auteur / The moral right of the author, Antwerp Congres, 19-24 September 1993, ALAI Paris, 1995, at 561. See also I Stamatoudi, *op. cit.* note 324, at 509.

right to restrict his moral right of integrity as much as he wishes, always with the ceiling of the prejudice to honour and reputation. He is also the one to draw the line of protection in a digital environment after having taken all the relevant points and risks into account. This is something that is closely linked to the personality of the author and can never be contracted away. Waivers can also be used at the production level of a multimedia work in order to restrict the moral rights of authors with regard to the necessary changes and adaptations of the work for reasons of its commercialisation.

Limited contractual waivers should also be the practice in relation to employee-authors. Any provision that alienates employee-authors from any moral rights protection altogether is inconsistent with the provisions of the Berne Convention. It also contradicts the need to reinforce moral rights in the digital environment. If no-one is to be afforded moral rights protection in relation to a multimedia work that has been created in the course of employment, both authors and producers<sup>653</sup> run the risk of diminished weaponry against the problems of authentication and integrity of the work. This presents both economic and social problems. The moral rights of employee-authors can always be restricted by the application of a waiver reached by common accord between the author and the producer. That, however, has to be limited in scope according to what we already described.

In this context it is clear that users will be able to use a multimedia product and transform its contents according to the scope of the licence they acquired, which in most cases will also be the scope technically available in the product. However, one should always bear in mind the fact that a work is received on-line and that the opportunities offered to users in terms of manipulation of the work are more numerous than those in relation to off-line works by no means diminishes the moral rights of authors. Users have to be equally attentive both with on-line and off-line works.

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<sup>653</sup> When it comes to the issues of paternity and integrity of the work, the producers' rights are protected via the rights of the authors.

#### 10.1.4.2.3 An important restriction in relation to moral rights

One clarification should be made regarding the above points, which will put the moral rights issue in its proper context. In practice moral rights of authors are only relevant once the work is communicated to the public. If distorted works are kept within the private sphere of the person initiating them, then the whole moral rights issue becomes irrelevant, e.g. because the honour and reputation of the author only exist in relation to the public and can therefore only be destroyed by a distorted version of the work being communicated to the public. Changes to the work can only be taken into account by the public if the public knows about it. Or as Dietz puts it «[...] if the user of an individual copy of a multimedia product is a consumer or end user acting in his private sphere, the problem of the moral rights protection, since - apart from the very delicate questions of destruction of unique pieces of art - it was never denied that an end user can dispose, manipulate, modify and destroy his copy of the work as he likes, as long as the results of his activities do not reenter the public sphere». <sup>654</sup> However, a multimedia work which has been delivered over the Internet and has been fed back to the system after it has undergone alterations amounting to infringing acts, can give rise to moral rights claims on the part of the author. At this stage moral rights provisions should be enforced to prevent such situations on three grounds. First for the sake of the author, second for the sake of the public that has an interest in receiving authentic and unaltered works, and lastly for the sake of the investment of the producer. Moral rights are only supposed to serve the first and second task, especially in copyright regimes that adopt the dualistic approach. <sup>655</sup>

<sup>654</sup> A Dietz, ALAI, supra note 645, at 175 (computer programs are a special case).

<sup>655</sup> Almost all copyright regimes recognise that moral rights serve both the interests of the authors and those of the public. See, for example, Court of Appeal, Brussels, 8.6.1978, [1978] JT, p.619, *Tintin*. On occasions it is recognised that this protection can also be extended for the protection of producers (i.e. in instances where neither the author nor the producer possess the economic rights in the work). That, however, can only be the case, after purposive interpretation in monistic systems. In dualistic systems such as France this conclusion is impermissible. See the whole discussion on

### 10.1.4.3 Conclusion

According to what we have discussed in the preceding section an ideal harmonised moral rights regime for multimedia products could be described as follows. The author (editor) of a multimedia product should be granted the right of divulgation, paternity and integrity. None of these rights should be conditional or subject to additional requirements or formalities. No special provision should be made for employee-authors.

The right of integrity should be waivable in particular cases that must be narrowly construed and in relation to existing works only. Partial waivability should be the only resort for conditioning, regulating or restricting moral rights at a post-production or after-production level. Specific provisions in relation to the right of integrity with regard to gross distortions or damage to the author's honour or reputation should not be expressly enshrined in the law. That would unreasonably restrict the choice of the author to opt for restriction of his moral rights or not and it would also fall foul of the need to reinforce moral rights protection (or at least preserve the current level) in the era of ease of digital copying and manipulation of the works. That would undermine the interests of all the parties involved in the creation and use of a multimedia product, i.e. authors, producers and users. However, the requirement of damage to the author's honour or reputation should be introduced in the law as a ceiling/safety net from which an author cannot contract out. Any other solution would impinge on the author's personality rights. In the exercise of the integrity right a balancing test that takes into account both the interests of the other authors or parties involved in the creation and use of a multimedia product and the particular nature of the work, i.e. its originality, the purpose of its use, etc. should also take place. The significance of such a test is particularly great in view of the differing nature of multimedia products. What exactly amounts to a distortion or mutilation for example in a multimedia context will have to be defined by the courts in the context of this

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producers quasi-moral rights in A Dietz, *supra* note 645.

balancing test which takes due account of all these factors and the outcome will be influenced by the particular nature of a multimedia product.

Lastly, the issue of moral rights becomes relevant only when a work is communicated to the public. If the work is kept in the private sphere of the person making the alterations, these alterations can not be held as infringing acts.

Such a solution seems to reconcile the common law and the continental law traditions on moral rights. That can prove particularly useful in view of a potential harmonisation in the area.

#### **10.1.5 Technical devices**

Digitisation and interactivity offer multiple and extensive opportunities for the manipulation and potentially the distortion of multimedia works. Whatever goes beyond the limit of changes which have been authorised by reason of a licence or assignment will be held to amount to an infringement of both the economic and the moral rights of authors in the work, once the altered work is communicated to the public. The introduction of new legislation in the area can only try and draw the line between legitimate and illegitimate use and sanction actions coming within the second case. However, the law is not capable of tracing such infringements or even practically preventing them before they take place. In many cases, after they have taken place, damage might already be irreparable both for the author and producer of the multimedia work as well as for the public. Problems of both respect for the work and authenticity of the work arise. The answer to the problems of digitisation seem to be found in digitisation. Digitisation allows works to be identified, protected and automatically managed, provided the appropriate systems are installed. In that sense digitisation is both an opportunity and a serious danger.<sup>656</sup>

The fact that many multimedia products consist of pre-existing works and

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<sup>656</sup> Commission Green Paper on copyright and related rights in the information society of 19th July 1995, COM(95) 382 final, at 79.

materials and the fact that these materials have to be obtained quickly, efficiently and with certainty as to the rights conferred on the multimedia producers, gives rise to problems of clearance and administration of rights, too. In fact co-operation between collecting management societies or, even better, international centralised systems for clearance of rights are some of the options for the future. Technology can also be used for the attainment of these objectives.

In the light of the above, technical devices have been developed to achieve two main aims: to prevent piracy and facilitate the administration and clearance of intellectual property rights.

#### **10.1.5.1 Technical devices against piracy**

Technical devices against piracy are usually known as systems of identification of the work. Their task is to embed distinguishable digital marks in the works (tattooing or marking) that are capable of identifying it. These marks also reveal the identity of the rightholders, the use that is licensed and the registration number of the work referring to a general registry capable of providing more information in relation to the work. These systems are equivalent to the systems of identification initially used in analogue works, as for example the ISBN number for books and the ISSN number for journals.

Examples of technical protection devices against piracy are encryption, digital signatures, steganography, SCMS, personal authentication procedures and others that are less known or developed.<sup>657</sup> Encryption is a process that transforms a file that is originally written in a format capable of being manipulated into a 'scrambled' format through the use of mathematical principles. The scrambled file can only be restored to an accessible and usable format through the use of an authorisation that takes the form of a 'key' to unscramble the file. Digital signatures

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<sup>657</sup> See also on this issue T Roosen, "*L'identification des oeuvres et la communication en ligne*" in C Doutrlepoint, P Van Binst and L Wilkin (eds), *Libertés, droits et réseaux dans la sociétés de l'information*, 1996, Bruylant, 55, at 75.

are mathematical algorithms that are used to 'sign' and 'seal' the work. Thus, through the use of digital signatures one will be able to identify the source of the particular work as well as verify whether the original contents of the works have been altered. Digital signatures essentially work as means of authentication of the work. Steganography (or 'digital fingerprinting' or 'digital watermarking') is a method of encoding digitised information with attributes (hidden messages) that cannot be disassociated from the file that contains that information. These attributes do not interfere with the quality of the work but can be detected whenever they are specifically looked for.<sup>658</sup> Lastly, Serial Copyright Management System (SCMS) is a system that prevents a second copy being made privately from the first copy.

All these systems present ample opportunity to keep the access and use of copyright material under control. They also serve as means of authentication of the work so that the public is certain that it is receiving genuine unaltered information. All these systems, of course, can be used only in a digital environment.

The importance of the use of these technical devices for the protection of the rights of authors and the public and eventually those of the producers is expressed in a number of national and international legal instruments. Some examples of these are the US NII Report,<sup>659</sup> the EU Green Paper<sup>660</sup> and the European Commission Communication<sup>661</sup> and the two recent WIPO Treaties.<sup>662</sup> Specifically, the European Union has legitimised the use of such technical devices in art.7.1(c) of the Software Directive.<sup>663</sup> Article 7.1(c) states that Member States shall provide

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<sup>658</sup> US White Paper, *op. cit.* note 25, at 185seq.

<sup>659</sup> *Ibid.*, at 177.

<sup>660</sup> Commission Green Paper on copyright and related rights in the information society of 19th July 1995, COM(95) 382 final, at 79seq.

<sup>661</sup> Communication from the Commission: follow-up to the Green paper on copyright and related rights in the information society of 20th November 1996, COM(96) 568 final, at 15seq.

<sup>662</sup> Article 11 of the WIPO Copyright Treaty and article 18 of the WIPO Performers and Phonograms Treaty.

<sup>663</sup> EC software Directive, *op. cit.* note 95.



for appropriate remedies against persons putting into circulation, or possessing for commercial purposes, any means, the sole intended purpose of which is to facilitate the unauthorised removal or circumvention of any technical device which may have been applied to protect a computer program. Article 7.3 adds to that that Member States may provide for the seizure of any such means. Community law does not require the compulsory introduction of such means. It only protects those who choose to install technical systems for the protection of computer programs systems by making it unlawful for them to put pirate decoding or other similar equipment into circulation or to possess it for commercial purposes<sup>664</sup>. However, the Community reserves the right to make technical protection devices compulsory in the near future. This, of course, will only take place on a harmonised basis and after these devices have been developed and accepted by the industry.<sup>665</sup> Article 7 of the software Directive has been implemented, for example, by article 10 of the Belgian Copyright law. This provision also imposes specific fines on infringers.<sup>666</sup> The WIPO Copyright Treaty and the WIPO Performances and Phonograms Treaty require the introduction in national laws of a provision that secures «adequate legal protection and effective legal remedies against the circumvention of effective technological measures that are used by authors in connection with the exercise of their rights under this Treaty or the Berne Convention and that it restricts acts, in respect of their works, which are not authorised by the author's consent or permitted by law».<sup>667</sup>

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<sup>664</sup> However, the Internet music recorder was not banned on this basis because it can have a dual function. See the Guardian, Friday 20th November 1998, at 16. A good example of a provision incorporating the prohibition on the circumvention of copyright protection systems into national law can be found in section 1201 of the US Digital Millennium Copyright Act 1998.

<sup>665</sup> Commission Green Paper on copyright and related rights in the information society of 19th July 1995, COM(95) 382 final, at 82.

<sup>666</sup> The sanction provided by the Belgian Software Act is a fine of between 100 and 100.000 Belgian Francs (obviously to be multiplied by the legal multiplier). (Loi transposant en droit belge la directive européenne du 14 mai 1991 concernant la protection juridique des programmes d'ordinateur, 30 June 1994 [1994] BS (Belgisch Staatsblad-Moniteur belge) 27.07.1994, p.19315.

<sup>667</sup> Article 11 of the WIPO Copyright Treaty and see also article 18 of the WIPO Performances and

However, the use of any such device has to be under tight control in order for it not to be used to the detriment of the public. That can happen in situations where the access to and use of materials is restricted without these materials being subject to any copyright or other protection. In these circumstances the person possessing the technology is usually also the one setting the rules. The laws on free access to information, expression, privacy and abuse of power should assist on this point. This is essential in relation to multimedia works where there is an excessive need for materials and any blockage of information will inevitably result in an obstruction to creation. The other extreme would be of course to have multimedia works as a result of mass copying. As Clark points out «both mass copying and multimedia [will be] dramatically transformed from copyright infringements to vehicles for the realisation of rights».<sup>668</sup>

The conclusion should be that the regulated use of technical protection devices is the only way of enforcing the rights of the authors and producers<sup>669</sup> effectively. In addition to that the authenticity and integrity of the works are safeguarded for the sake of the public. Yet technical protection devices should not constitute vehicles for abuse of power on the part of those that control them. And in any case they cannot replace the function of law. They serve the needs of copyright protection but there is no way in which they replace copyright protection. Therefore their use should always remain under close scrutiny.

#### **10.1.5.2 Technical devices for the administration and clearance of rights**

The second aspect of the two-fold role of technological devices in the digital

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Phonograms Treaty.

<sup>668</sup> Ch Clark and T Koskinen-Olsson, "New alternatives for centralised management: 'one-stop-shops'" in WIPO international forum on the exercise and management of copyright and neighbouring rights in the face of the challenges of digital technology, Sevilla, Spain, 14-16 May 1997, WIPO (1998), 227, at 240.

<sup>669</sup> See A Dietz, *op. cit.* note 645, at 165, where Dietz argues that technical device protection (authentification) for producers amounts to quasi-moral right protection for producers.

era is their use for the administration<sup>670</sup> and clearance of rights. The need for multimedia producers to clear rights quickly, efficiently and with certainty in a wide range of areas (since all kind of expressions are contained in a multimedia work) has further accentuated the need for such devices.

Technical devices used in this area purport to a) inform parties as to the details of the work (the identity of the rightholders, the expiry dates of the rights in it, the price for its use, etc), b) either refer the parties to the organisations where they can buy licences or conclude transactions themselves, and c) keep a record of the transaction and the details of the user (known as 'non-repudiation' and 'date stamping').

In order for technical devices to perform such functions there is again a digital mark that has to be embedded in the work and which allows it to be identified and constitute the object of a transaction. Various initiatives have been taken to this end. Some of them are Cypertech, CITED,<sup>671</sup> COPICAT, DAVID, COPEARMS, IMPRIMATUR, CLARCS and COPYMART. Cypertech is a digital marking system that allows a digital distinguished mark to be incorporated in each work. That system determines the time for which a work is used and which receivers can receive and decode it in real time. CLARCS is a transaction processing system that is based around two databases. One of them consists of works with associated fees and conditions and the other of registered users. Each transaction links a user with a work and the details of each transaction are recorded in a transaction file. IMPRIMATUR identifies works with a unique number and

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<sup>670</sup> The collecting societies have also set up a uniform system to standardise and communicate data in an efficient and integrated way. This system will achieve significant economies of scale while creating more efficient mechanisms for exchanging information to support automated transactions for the licensing, tracking and monitoring functions demanded by a dynamic digital trading environment. This system is called the Common Information System (CIS). For further details see D Yon and K Hill, "*Collective administration of copyright in cyberspace*" in M-Ch Janssens (ed.), Intellectual Property Rights in the Information Society, Bruylant, 1998, at 93.

<sup>671</sup> For further details see CITED (Copyright in Transmitted Electronic Documents) Final Report, CITED Consortium, 1994.

allows the marketing of the works either by sale or by licence with payments being remitted to the copyright owner. Lastly, COPYMART, perhaps the most ambitious one, envisages a central international administration of copyrights (irrespective of the type of expression of the work). COPYMART is an international registry of copyright works and indicates the conditions under which each of the works can be purchased or licensed. Interested parties can conclude transaction over the works that are registered in it and they obtain their copies and pay their fees on-line directly to the rightholders. The basic idea of this system was first presented in 1989 by Professor Zentaro Kitagawa of the University of Kyoto<sup>672</sup> in a presentation in London on 'clearance or copysale'. The remainder of the above-mentioned systems also function along the same lines.<sup>673</sup>

It is not only an effective administration of copyrights that is achieved through the operation of these systems but also control of access to and use of these works. Eventually, uses that go beyond the licensed permission can be detected and either stopped or charged accordingly. In addition to that users can rest assured that they are receiving the original unaltered materials that they require. Thus, the on-line collective administration systems incorporate to a certain extent the functions of the first technical protection devices we described.

As far as the producers of multimedia products are concerned, technical devices may alter the method of production. Producers will no longer be the assemblers of the information that constitutes the contents of the works they

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<sup>672</sup> On the position in Japan itself, see C Heath, "*Multimedia und Urheberrecht in Japan*" [1995] GRUR Int. 843, at 844.

<sup>673</sup> Ch Clark and T Koskinen-Olsson, «New alternatives for centralised management: 'one-stop-shops'»; and R. Oman «Moderator's contribution to the fourth panel discussion on technological means of protection and rights management information» in WIPO international forum on the exercise and management of copyright and neighbouring rights in the face of the challenges of digital technology, Sevilla, Spain, 14-16 May 1997, WIPO, 1998, 227 and 55, at 57. If a system such as COPYMART were to be put in place, it is to be anticipated that the need for an international equivalent to the UK's Copyright Tribunal (or an equivalent competition law authority) will also arise.

publish but simply the providers.<sup>674</sup> All materials will be obtained through on-line systems that will allow immediate buying of the work. However, this opportunity should be looked into in further detail and one should determine to what extent it is likely to strengthen the bargaining and marketing power of the organisations of collective administration of rights against authors and users.<sup>675</sup> Both authors and users run the risk of being offered standard-type contracts on a take-it-or-leave-it basis. That will put them in a difficult position since their refusal to sign up to such a deal will practically exclude their works from the market. In the same way users might incur a competitive disadvantage in relation to other users being offered the same terms in licensing contracts. Competition law must regulate such situations thoroughly. Especially in cases where the dominant position of on-line clearing systems and the co-operation of powerful copyright management societies is favoured and even facilitated by the European Commission for the attainment of international centralised units for the administration of these rights.<sup>676</sup> In these circumstances it should be guaranteed that adequate flexibility is given both to authors and users<sup>677</sup> and that the public is allowed access to all indispensable

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<sup>674</sup> Ch Clark and T Koskinen-Olsson, *ibid.*, at 241.

<sup>675</sup> See I Stamatoudi «The European Court's love-hate relationship with collecting societies» [1997] 6 EIPR 289; and P Torremans and I Stamatoudi, «Collecting societies: sorry, the Community is no longer interested!» (1997) 22 E.L.Rev. 352. The case-law referred to in this article clearly illustrates the risks involved.

<sup>676</sup> See in this respect the reference in case T-5/93 Roger Tremblay and others v. EC Commission (Syndicats des exploitants de lieux de loisirs (SELL), intervening) [1995] E.C.R. II-185, at para 85 to the statements of a Community official and a representative of SACEM made at a conference on copyright held in Madrid on 16 and 17 March 1992. And see also the Green Paper on copyright and related rights in the information society, COM(95) 382 final, Brussels, 19th July 1995, at pp.27 and 70seq.

<sup>677</sup> This means central rather than collective administration of rights allowing space and an opportunity for both authors and users to negotiate the terms of their agreement. See the discussion in the next section of this chapter. See also F Melichar, "Collective administration of electronic rights: a realistic option?" in P B Hugenholtz (ed), The future of copyright in a digital environment, Kluwer Law International (1996), 142, at 151.

information for further use.<sup>678</sup> If seen from the other side of the spectrum, this system will boost the exploitation of their works to a far greater degree with perhaps more favourable terms than before if authors take appropriate immediate steps<sup>679</sup> and in this way they might also avoid the imposition of compulsory licences<sup>680</sup>.<sup>681</sup> Users might be able to save the costs of lengthy, difficult and private negotiations, and secure better prices for protected material.

### 10.1.5.3 The overall position

The role of technology in assisting the protection of authors' rights and in helping the administration of those rights is indispensable. However, it would be a fatal mistake either to argue that technology can replace the function of the law or that copyright has become irrelevant because technology can sort out the problems on its own. The existence of technical devices on the market has to be legitimised

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<sup>678</sup> See I Stamatoudi, «*The hidden agenda in Magill and its impact on new technologies*» (1998) 1 The Journal of World Intellectual Property 153 and joint cases C-241 and C-242/91P, *Radio Telefis Eireann and Independent Television Publications Ltd v. Commission* [1995] E.C.R. I-743 and [1995] 4 C.M.L.R. 718. In this case the copyright work at issue was considered to be indispensable information and a licence granting access to it could be imposed (cf. the essential facilities doctrine).

<sup>679</sup> Failure to act immediately could be taken as silent consent once a substantial period of time has lapsed. See F Melichar, *op. cit.* note 677, at 148.

<sup>680</sup> For details on the circumstances in which compulsory licences can apply see joint cases C-241 and C-242/91P, *Radio Telefis Eireann and Independent Television Publications Ltd v. Commission* [1995] E.C.R. I-743 and [1995] 4 C.M.L.R. 718; and see also I Stamatoudi, *op. cit.* note 678. See also the reference to compulsory licences in the Commission's Green Paper on copyright and related rights in the information society, COM(95) 382 final, Brussels, 19th July 1995, at 72.

<sup>681</sup> On the issue of compulsory licensing, especially for the arguments in favour and against, see R Merges, «*Contracting into liability rules: intellectual property rights and collective rights organisations*» (1996) 84 California Law Review 1293. The position against compulsory licensing is also set out very clearly by A Dixon and L Self, «*Copyright protection for the information superhighway*» [1994] 11 EIPR 465, at 471. And see also the Green Paper on copyright and related rights in the information society, COM(95) 382 final, Brussels, 19th July 1995, at 77.

and technical devices do not themselves create exclusive rights. There have to be legitimate rights that technology will set out to protect. The limits of these rights must be delineated in order to avoid the other extreme where those possessing the technology will be able to set the rules. The interests of authors, producers and the public have to be taken into account and the right balance struck. Technical devices can potentially produce any result, therefore copyright law has to balance the interests involved and lay down clear limits to the rights that can be exercised and protected through the use of technical devices. If the law does not strike the right balance, the market and technology will strike it according to their own needs; a situation that society cannot afford.

#### 10.1.6 Term of protection

Affording copyright protection to multimedia products necessarily results in granting them, at least in the EU,<sup>682</sup> a term of protection<sup>683</sup> for the life of the author plus seventy years. Since multimedia products deserve copyright protection on the grounds of their creativity, in the same sense as any other work, they also deserve protection for the life of the author plus seventy years. In this respect multimedia works come under the standard copyright rule. However, multimedia products are in general driven and initiated by the market and industry, just as computer programs and databases. They are created primarily by or on behalf of companies. It follows that in reality the primary aim of multimedia products is to be marketed and to recuperate the investment put into their creation. The marketing of these products takes place immediately therefore and the investment is either recuperated or lost within a short period of time, on most occasions not even as long as the life of the author. The rapid progress of technology, the updating of the information and the fashion of the market renders any multimedia product outdated in a very

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<sup>682</sup> Article 1 of the EC term Directive, *op. cit.* note 231. In the Berne Convention and the TRIPs Agreement there is a provision for protection for life of the author plus a minimum of fifty years.

<sup>683</sup> Both for economic and moral rights.

short period of time.

The creators and exploiters of these types of works and their investment and creation decisions are in the main indifferent to the prospect of copyright protection in the long term. They want to recuperate their investment in the short term and they need a copyright regime that allows them to do so. Long term copyright protection does not influence their decisions and is therefore rapidly becoming an unnecessary restriction on competition that cannot be justified. However, the issue of whether the seventy year term of protection is generally too long for copyright works is an issue relating to copyright as a whole, rather than multimedia works specifically. It is also an issue which merits separate consideration and which cannot be addressed fully within the scope of this work.<sup>684</sup> From a purely practical point of view the issue may not be urgent though, since an outdated work will no longer be used and copyright only requires remuneration to be paid for use. In such a scenario the theoretical ongoing copyright protection becomes an irrelevant detail.

## **10.2 A 'database-style' *sui generis* regime of protection for multimedia products**

### **10.2.1 Deficiencies of a copyright-only model**

The investments required for the production of a sophisticated multimedia product are often considerably higher than those for the production of any other copyright work, including databases. This is mainly so because in a multimedia product a large number of various kinds of works are put together and are digitised (if they are not already in that format), integrated and made interactive. On most

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<sup>684</sup> Economists will even argue that intellectual property protection is only needed if market lead time is inadequate to recoup investment. The question whether lead time would be sufficient in relation to multimedia products cannot be answered here completely, but it seems unlikely that lead time on its own would be sufficient in all cases.



occasions this task is a highly creative one which attracts copyright protection on the basis of the final outcome of the work. However, there can also be cases where multimedia products are not necessarily original. A major aspect of the originality of multimedia products is found in the (complete) integration of their various components. This is in addition to the fact that they are collections of a very high number of works, a characteristic which they often share with databases. The integration, through the use of software tools and advanced levels of interactivity, creates the added value of multimedia products and it also distinguishes them clearly from the category of databases where individual accessibility is the norm. Certain primitive multimedia works may not pass the originality hurdle though, as a result of their extremely low level of integration of components. For example, a CD-ROM based encyclopaedia may offer the user a combination on the computer screen of a picture of a statue and a bibliographical note in text format on the sculptor. There may be problems in granting copyright to this primitive form of integration, or rather juxtaposition, for the added value of the combination in addition to the rights in the two pre-existing works. However, the works are not individually accessible because they only appear as a combination. A database classification is therefore not appropriate and the 'more-than-one-expression' argument places works of this kind in the multimedia category. Arguably copyright should not be granted here on grounds of lack of originality, especially if the EU criterion of personal expression by the author is used. What remains though is that these primitive non-original multimedia products have rather a lot in common with databases. The potential consequences of these similarities warrant further consideration.

Multimedia products, irrespective of whether they are original or not, require substantial investments for their production. Sometimes the amount of money and effort put into the design, accumulation of the various elements and realisation of a multimedia product (which is not original) can be extremely substantial and even supersede those for the creation of an original work. The possibility of copying these works in perfect quality at a fraction of the original cost and the marketing of

similar or identical products clearly jeopardises the investment put into this domain and greatly discourages future projects in the area. The multimedia industry in this respect runs an important risk that is similar to the one the database industry was confronted with some years ago. Therefore there is a need for protection even for those multimedia products that do not come under the umbrella of copyright. This need is not created on the basis of their creativity or the fact that they offer society a new expression of a concept, but rather on the basis of the substantial investment in them.

The same considerations have been taken into account by the European Community in the area of databases. The EU Directive on databases<sup>685</sup> confers a *sui generis* right on a database by reason of the investment put into it, irrespective of whether or not it qualifies for copyright protection. If the maker<sup>686</sup> of a database can prove that he has put a quantitatively and/or qualitatively substantial investment<sup>687</sup> into the obtaining, verification or presentation of the contents of a database he is granted the exclusive right of preventing extraction and/or re-utilisation of the whole or a substantial part of the database.<sup>688</sup> The maker of the database is entitled to this right even if his database is copyrightable. In this case the author of the database will have copyright in relation to the structure of the database<sup>689</sup> and the maker a *sui generis* right in relation to the contents of the database.<sup>690</sup> The rights of the authors of the works that constitute the contents of

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<sup>685</sup> EU database Directive, *op. cit.* note 47.

<sup>686</sup> According to Recital 41 of the database Directive, 'maker' is the person who takes the initiative and the risk of investing, excluding subcontractors. It is also in this sense that we will use the term in the context of multimedia products.

<sup>687</sup> Recital 40 of the database Directive provides that such an investment may consist of the deployment of financial resources and/or the expending of time, effort and energy.

<sup>688</sup> Article 7 of the database Directive.

<sup>689</sup> In fact in relation to the selection and arrangement of its contents. See art.3.1 of the EU database Directive, *op. cit.* note 47.

<sup>690</sup> At the end of the day the maker of the database (the producer) will possess all the economic rights in the work, either as first owner or as assignee of these rights.

the database are not to be affected.<sup>691</sup>

### 10.2.2 The difference between databases and multimedia products

First, the *sui generis* right for databases is a right referring to the contents rather than the structure of the database.<sup>692</sup> The fact that these two forms of protection do not coincide is also the reason why a database that is original can qualify for both copyright and a *sui generis* protection. However, in a multimedia context the distinction between the structure of the work and its contents is not always an easy one to make. First, the structure of a multimedia product does not necessarily translate into the systematic selection and arrangement of its contents, as is the case with databases. If that were the case then the multimedia work would qualify as a database rather than anything else. Selection and arrangement of the contents of a multimedia work is a task which takes place at a pre-production stage or at least at the first stage of production of the multimedia work. After the works or other elements that are to be included in a multimedia product have been selected, they are necessarily arranged<sup>693</sup> in such a way to enable their integration into the product. Integration takes place to such an extent that the new work that emerges has only little in common with its initial contents. The selection and arrangement of the contents of this new work are no longer apparent. The structure of the multimedia product is in fact the structure that appears on one's screen as a general merged image with which the user can interact. In this sense a reference, either to the elements of a multimedia product (after these elements have been incorporated into it) or to the content of the multimedia product, seems to be a

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<sup>691</sup> I Stamatoudi, *op. cit.* note 56, at 459seq.

<sup>692</sup> The very first case in Europe dealing with the *sui generis* right concerned a non-original database containing a list of self-help groups. This list was copied and re-utilised by the defendant when it launched its own database of self-help groups which was simply wider in territorial coverage. Court of First Instance, Brussels, 16.3.1999, (1999) 118 *Journal des Tribunaux* 305-307.

<sup>693</sup> Arrangement of the various elements in a multimedia product goes one step further than the arrangement found in relation to databases since it allows integration.

reference to one and the same thing. It is this content of the multimedia work that can be considered original and therefore capable of attracting copyright protection.

In the light of the above, any extraction or re-utilisation right in relation to multimedia products, analogous to that for databases, will necessarily refer to the content of the multimedia work rather than its elements, since the elements are no longer distinguishable on screen. In this context if a multimedia product were to attract both copyright and *sui generis* protection, the latter would make no sense since it would be necessarily covered by the former via the rights of reproduction and distribution. One could nevertheless argue that a way of distinguishing the elements of a multimedia product from its content/structure is to imagine a situation where one uses the same elements in order to produce a very different product or even the same product if there are no copyright constraints to it. Nevertheless this situation would either be rare or of a diminished practical significance. First, in order for one to engage in such a task one should be able to copy the initial elements found in the multimedia product and not their blurred version, which is not an easy task. Second, multimedia products do not necessarily combine rare, unique or difficult to assemble information that would make copying attractive as in the case of databases. Multimedia products essentially aim to produce an overall image in the same way as audiovisual works or films. In that image indispensable information is only a rare or small part. Thirdly it is not the obtaining, verification and presentation of the elements of a multimedia product that make that product valuable and costly to produce. It is rather the integration and interactive presentation of these elements which at that stage is transformed into the content of the multimedia work.<sup>694</sup> Granting a *sui generis* right of such contents to multimedia works would confer upon their makers exclusive rights that are not indispensable and therefore produce unjustified constraints on the

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<sup>694</sup> In other words, one is allowed to copy the elements that make up the original multimedia product as long as his new work has nothing or only little to do with the original product (i.e. one has only borrowed insubstantial parts).

market.<sup>695</sup> In addition to that they are likely to cause confusion and bewilderment to third parties as they will add to the existing pile of exclusive rights in relation to the multimedia product, that is copyright and the rights of the authors of the works included in the multimedia product.

What, however, would make sense would be to grant *sui generis* protection to those multimedia products that do *not* attract copyright protection. The makers of such products have no exclusive rights that can restrain third persons from copying their work and invalidating their investment in the new product. Therefore they are in need of an unfair competition law-style right. In such cases a *sui generis* protection will confer on them an exclusive right to prevent substantial parts of their product (content) being extracted and/or re-utilised in other productions, similar or non-similar, for private or for commercial use. It is felt that private use should be restricted as well since there are no effective measures yet in place that can control this use.<sup>696</sup> In addition to that there is no reason for a multimedia work to be reproduced for private purposes because in this case there is the risk that multimedia products that are transmitted on-line will be copied and therefore their commercial value will be diminished as the user will in future not need to consult them and pay the relevant fee if he has copied their contents first time round. However, the fact that a *sui generis* right is needed only on the basis of unfair competition law, and not as proprietary right, dictates that that right has to be of a limited nature, both in substance and time, and should not interfere with the right of the authors of the works included in the multimedia product.

### 10.2.3 A *sui generis* regime of protection for multimedia products

According to the preceding discussion, the ideal *sui generis* model of protection for multimedia works, which is heavily inspired by the *sui generis*

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<sup>695</sup> Cumulation of various rights may potentially upset the balance between the rights of the owners, the rights of the users and those of the public.

<sup>696</sup> See art.6.2(a) of the database Directive.

protection for databases as found in the EU Directive, can be described as follows. It is an unfair competition law right designed on the basis of the rights of reproduction and distribution that are found in copyright. The *producer* of the multimedia product who has sunk a qualitatively and/or quantitatively substantial investment into the production of a multimedia product, i.e. *into the bringing together of the various components, combining, integrating them and making them interactive*, will be given a right to prevent extraction<sup>697</sup> and/or re-utilisation<sup>698</sup> of the whole or a substantial part, evaluated qualitatively and/or quantitatively, of the content of his multimedia product. There will be no exception for private copying. That right will only be granted to the publishers of those multimedia works that do not attract copyright protection. This right should be granted for no more than 5 years, starting from the date of the completion of the multimedia product without any possibility of renewal.<sup>699</sup> A short term of protection is dictated both by the needs of the public for access to information and the facilitation of further creation of derivative works. In any case any multimedia work will undoubtedly be outdated within five years. Even if that is not the case at least the producer of the multimedia work will be able within this time to capture the market and recoup his investment. Whether this right can be exhausted internationally or not is a matter which, under the current EU position, should be perhaps answered in the negative.<sup>700</sup> Yet the right should be exhausted by the first sale of a hard copy of the

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<sup>697</sup> 'Extraction' shall mean the permanent or temporary transfer of all or a substantial part of the contents of a multimedia product to another medium by any means or in any form.

<sup>698</sup> 'Re-utilisation' shall mean any form of making available to the public all or a substantial part of the contents of a multimedia work by the distribution of copies, by renting, by on-line or other forms of transmission.

<sup>699</sup> Due to the fact that it will be a very narrow category it might be considered appropriate, in order not to have an entirely different format, to use the existing database format in an unchanged form. Although this might be attractive to an encyclopaedia/database-like multimedia work that will be updated regularly, it will be obvious that this rationale does not apply to most multimedia works and that the idea therefore needs to be rejected (see below).

<sup>700</sup> See Case C-355/96 *Silhouette International Schmied GmbH & Co KG v. Hartlauer Handelsgesellschaft mbH* [1998] 2 CMLR 953.

multimedia product within the Community by the rightholder or with his consent.<sup>701</sup> The remainder of the attributes of this right can follow faithfully the model of the EU Directive on the protection of databases.

The preference for a database-style *sui generis* right is also motivated by the Commission's clear intention to use the database model as a «cornerstone of intellectual property protection in the new technological environment»<sup>702</sup> and as «the basis for all complementary future initiatives»<sup>703</sup> in this field.<sup>704</sup> It is submitted though that it would be wrong simply to copy the *sui generis* provisions of the database Directive. The reason for this submission is that in a multimedia context the coverage of a *sui generis* right is necessarily broader than in databases, as explained above.<sup>705</sup> It is also given in most cases to the same person who owns the copyright,<sup>706</sup> whilst in databases the rights are given to different persons. Any overlap between copyright and the *sui generis* right, a problem that does not arise in the database context, should therefore be avoided.<sup>707</sup> The broader scope of the multimedia *sui generis* right also means that it would necessarily cover aspects

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<sup>701</sup> On-line transmission is not covered and does not automatically lead to exhaustion.

<sup>702</sup> COM(96) 568 (a 1996 Communication on the Follow-up to the Green Paper on Copyright and Related Rights in the Information Society).

<sup>703</sup> Green Paper on Copyright and Related Rights in the Information Society, COM(95) 382.

<sup>704</sup> It is always easier to use an existing right, than to create an entirely new one.

<sup>705</sup> One could also build upon Gotzen's argument that «it is important to stress that this new right will be extremely broad as it will allow the maker of the database to prohibit not only the slavish imitation or the manufacture of a parasitic competing product, but also to prevent the making of a derived product that, though looking and feeling quite different from the original database, would nevertheless have relied too heavily on its contents, so as to harm the initial investment» and say that the situation is different in relation to multimedia products in the sense that they are normally derivative products where the major investment lies in the added value rather than in the selection of the underlying database. The conclusion must therefore be that an even broader right can only be accepted if its duration is curtailed substantially. See F Gotzen, "Harmonisation of copyright in the European Union" in M-Ch Janssens (ed.) Intellectual property rights in the information society, Bruylant, 1998, p.121, at 135.

<sup>706</sup> This is the case if the model that has been proposed in this chapter is followed.

<sup>707</sup> See the discussion *supra*.

which are reserved for copyright in a database context. It would not be advisable to grant long term protection, with an effect similar to copyright, for those aspects in cases where the work itself does not qualify for copyright. Hence the very restricted scope in terms of time of the proposed multimedia *sui generis* right.

Not a lot needs to be said in relation to the issue of compulsory licences for works that are conferred exclusive rights on the market and that therefore prevent the access by third parties to that information by reason of the essential and indispensable nature of their contents. One can only imagine rare cases where multimedia products will present such a problem since as we explained earlier their aim is to produce a new image and not to block raw material on the market. If the European Commission decided to omit such a provision from the draft Directive on databases and include it in the final version only as a general clause under which the Commission can take action whenever it feels it is necessary<sup>708</sup> then the need for such a provision in relation to a potential introduction of legislation for multimedia products is even more limited.<sup>709</sup> Yet if such a situation occurs, the European Court of Justice has proved in the *Magill* case that is capable of coping perfectly well in these situations under the general competition law provisions of the EC Treaty.<sup>710</sup>

#### 10.2.4 Final considerations

A *sui generis* right of protection for multimedia products that are not capable of attracting copyright protection is dictated by the needs of the market and the multimedia industry. The investments sunk into the creation of these products need

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<sup>708</sup> Art.16§3 « ...the Commission shall submit...a report...and shall verify especially whether the application of this right has led to abuse of a dominant position or other interference with free competition which would justify appropriate measures being taken, including the establishment of non-voluntary licensing arrangements ».

<sup>709</sup> The same position has also been adopted in TRIPs and see also art.16.3 of the Database Directive.

<sup>710</sup> See I Stamatoudi, *op. cit.* note 678.



to be secured. Otherwise the industry will refrain from investing in such projects especially in an era where copying and trespassing are not perfectly controllable.<sup>711</sup> Therefore exclusive rights in this area can boost production and further development. Any arguments in relation to putting too many constraints on the free flow of information cannot overrule these imperative reasons. The public will have more to lose in the long term if production stops than if it can copy easily whatever appears on the screen. The *sui generis* right does not extend copyright protection to non-original works by granting unjustifiably non-exclusive rights. Nevertheless copyright was designed in an era when functional and utilitarian works did not merit exclusive protection on any grounds, not to mention on grounds of investment. Technology has changed this picture and if law is to survive the new reality it should adjust to these needs.

Non-original multimedia products are after all extremely similar to databases. It would therefore be unfair to deny *sui generis* protection to these multimedia products that are not copyrightable, but that share with databases the very reasons for which a *sui generis* right for databases was created. In practice these multimedia products form a small niche group that falls outside the scope of copyrightable multimedia products, whilst nevertheless not being relegated entirely to the database category.

### 10.3 Collective administration and unfair competition law

In a traditional market, the purchase of a copyright work could be described as follows. The copyright work is displayed in the shop window of a shop. The customer enters the shop and has a look at the product on offer. This product has on it a price tag and instructions for use. The customer decides whether or not to buy the product and if he does, he proceeds to pay at the till. If such a model of purchase were transposed to a digital environment, the following questions would arise.

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<sup>711</sup> Even if technological measures are put in place they cannot replace the law altogether.

- Who is the shopkeeper and should he always be willing to sell?
- Can the product's instructions for use be tailored to the specific needs of the customer and is its price negotiable?

The above questions give rise to a number of problems in relation to the administration and clearance of rights in multimedia products. Some of the issues they touch upon are whether collective administration should be preferred to individual administration and whether it should be optional or compulsory in relation to certain works that either constitute multimedia products or are works that are to be included in multimedia products. They also raise the issue of flexibility in the licensing of works and open the discussion on whether a 'collective' or a 'central' administration of rights is both preferable and feasible in the digital era.

### **10.3.1 Administration of rights**

#### **10.3.1.1 Individual administration v. collective administration**

##### **10.3.1.1.1 In an analogue environment**

The first issue that should be examined is whether there is, realistically speaking, a choice between individual and collective administration in relation to multimedia works.<sup>712</sup> Although individual administration has traditionally been the author's right during recent decades, market conditions have made it difficult for this right to be exercised on an individual basis. The facts that the author of the work is not necessarily its rightholder and the rightholders of a work are not easily traced, as well as the fact that once traced they do not have either the expertise nor

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<sup>712</sup> Theoretically there should always be a choice. However, the market is bound to make the choice for the creators.

the bargaining power required to license uses of their works to third parties, has paved the way for a collective administration of intellectual property rights.<sup>713</sup> On the part of the users, it is easier to obtain licences through a central unit which provides you with certainty as to what you are licensed and what you are allowed to use. Any other solution would make the licensing of any works a costly and time-consuming task. This reason has prompted many national systems either to introduce or provide for collective administration of copyright works.

In the beginning collective administration of works did not necessarily mean licensing of works under the same conditions through standard-type contracts on a take-it-or-leave-it basis; rather it was done on an individual basis. The change was introduced at a later stage when broadcasts, sound recordings and video recordings appeared. In fact what was transferred to collecting societies to manage were the secondary rights in the works and not the primary rights. In other words the rightholders did not give the collecting societies the right to exploit the original work incorporated in the recordings mentioned above, i.e. the musical work, the audiovisual work, etc, but the right of transmission and public performance of the recording itself. In that sense the rights of exploitation of the original work remained with the initial author or other rightholders. In this context the uses of the work that were licensed to third parties were necessarily the same since the parties were commercial entities aiming at the transmission or public performance of these recordings with the aim of making a profit. The establishment of standard-type contracts with regard to pre-defined uses at a set price was dictated by commercial practice. Dealing on an individual basis, meaning providing licences tailored to the specific needs of the customer, was not an option that was commercially viable

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<sup>713</sup> Ideally there should be one register in which are found the names of the copyright holders, the holders of the *sui generis* rights and the holders of moral rights. The holders of moral rights will have to be contacted on an individual basis. In practice there is already a problem to find all those that are entitled to royalties after the death of the author, see J Rayner, « *Who will pay the jazz man?* » The Guardian, 1.7.1996, at 28 and on top of that there are hardly any works to be found in which no rights whatsoever exist. At least in some jurisdictions perpetual moral rights will survive. See G Vercken, *op. cit.* note 3, at 87-88.

since it was not cost effective. On the one hand the needs of the third parties were coming down to almost the same use of the work, with variations only in the frequency of use and the width of the collecting society's repertoire. On the other hand, the real use of the collecting society's repertoire could not realistically be measured, in the sense that collecting societies could not practically employ the personnel that could go round each public house or radio or television station to check what exactly was transmitted and how often in order to ask for the corresponding remuneration. That would undoubtedly be to the detriment of authors since the operation costs would supersede the amount of the remuneration of the authors.<sup>714</sup>

In the light of this, blanket licences had to be given out to third parties which included the use of any work of the collecting society's repertoire for a standard non-negotiable fee. The remuneration of the authors was calculated on the basis of an 'objective possibility of use' drafted on the basis of surveys and questionnaires of popularity for certain works and authors.

In the late 1980s the conduct of the French collecting society of authors, composers and publishers of music (SACEM) relating to its denial to provide access to part of its repertoire and lower its prices was objected to by a number of French discothèques because they felt it was abusing its dominant position in the market. The European Court of Justice, which dealt with this case in the form of a preliminary ruling, ruled in relation to the prices charged that «art.86 of the Treaty must be interpreted as meaning that a national copyright-management society holding a dominant position in a substantial part of the common market imposes unfair trading conditions where the royalties which it charges are appreciably higher than those charged in other Member States, the rates being compared on a consistent basis. That would not be the case if the copyright management society was able to justify such a difference by reference to objective and relevant dissimilarities between copyright management in the Member State concerned and

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<sup>714</sup> The fact that under this system certain unpopular authors were not paid on a strictly equal basis with popular ones was one of the handicaps of the system.

copyright management in the other member States». <sup>715</sup> In the case at issue all the circumstances put forward by SACEM were rejected and it was therefore made clear that any exceptional circumstances in this respect would form the exception rather than the rule. <sup>716</sup> As regards SACEM's refusal to subdivide its repertoire the Court took account of the practicalities of controlling the use of the works and assembling variable fees adjusted to each use, and ruled that such conduct was justifiable «unless access to a part of the protected repertoire could entirely safeguard the interests of authors, composers and publishers of music without thereby increasing the costs of managing contracts and monitoring the use of protected musical works». <sup>717</sup> This meant that in that case any subdivision of the collecting society's repertoire was not a viable option on the market.

Thus, although the ECJ did not find any excuse for the charging of high royalties on the part of SACEM, it did however recognise that SACEM's refusal to subdivide its repertoire was justified due to the increased costs that any other conduct would result in and which would eventually be to the detriment of the authors. In an analogue environment any subdivision of the repertoire was simply non-viable and therefore stayed clear of the net of unfair competition law.

#### 10.3.1.1.2 In a multimedia environment

The very same reasons that dictated the solution of collective administration of copyrights in an analogue environment are also valid in relation to digital works distributed in a digital environment. <sup>718</sup> In that sense multimedia products do not

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<sup>715</sup> Case 110/88, *SACEM v. Lucazeau*; Case 241/88, *SACEM v. Debelle*; Case 242/88, *SACEM v. Soumagnac*; Case 395/87, *Ministère Public v. Tournier*: all at [1989] ECR 2811; [1991] 4 CMLR 248, at 292.

<sup>716</sup> See I Stamatoudi, *op. cit.* note 675, at 294.

<sup>717</sup> Case 110/88, *SACEM v. Lucazeau*; Case 241/88, *SACEM v. Debelle*; Case 242/88, *SACEM v. Soumagnac*; Case 395/87, *Ministère Public v. Tournier*: all at [1989] ECR 2811; [1991] 4 CMLR 248, at 292.

<sup>718</sup> On the role of collecting societies in a multimedia context see R Kreile and J Becker,

present any particularities when compared to other digital works. Rightholders are not easily traced and even when they are traced they might be large in number. Clearance of rights in relation to works that are to be included in a multimedia product requires the necessary technical equipment and expertise on the part of the rightholders, especially since it involves digital rights and rights in on-line systems, the status of which is somewhat uncertain. It also requires knowledge, time and investment as well as bargaining power. The administration of the rights in a work makes things easier for both authors and users since there is a central unit with which authors can be registered. They can thus have their works exploited effectively and make a profit whilst on the other hand users can also effectively trace the works they need and be certain as to the use of the work they are entitled to make. That saves them time, effort and money and boosts production and profitable exploitation.

The additional problems that are introduced by digital works in general and multimedia products in particular are the following. First, many more works are needed in the production of a multimedia work than in the production of any other work. These works are diverse in nature and are intended for various kinds of uses in any part of the world. Second, there is an eminent need for control of these uses in view of the facilities of manipulation a digital environment offers. This is especially so in view of the fact that the same devices used for the licensing of works will also be used to track down potential infringers. Third, there is almost no distinction in a digital environment between primary and secondary exploitation of the work. Almost as soon as a work is put on the system it is communicated to the public without the intermediary stage of a recording or separate distribution process. Thus any distinction between primary and secondary exploitation of the work is blurred.

On the other hand, digitisation facilitates the tracing of the author's identity and in certain cases also the conditions of the licence. Digitised works can carry all the necessary documentation as to the uses allowed, as they have almost no

constraints in terms of the potential volume of information that can be carried. It also offers the possibility for clearance of rights on line, better control of the uses and control of the real and actual use of each work, as well as the kind of use and the time of use. In addition to that it allows collecting societies to join their efforts through central on-line systems where, even in cases where they are not allowed to clear rights themselves and conclude transactions, they can refer clients to the appropriate units that are allowed to license rights in certain works. Because digitisation removes practically all limits of space, all this information can be carried with the work at any time and on top of that when one concludes a transaction over a work on the net one can also immediately acquire the content of the work which can be kept in an on-line registry. Details that are registered include the identity of the parties concluding the transactions, date of the transaction, content of the contract, etc. The technical systems that allow for all these facilities have been analysed in the chapter on technical devices.<sup>719</sup>

Consequently, there is without doubt a need for the administration of copyrights of multimedia products by copyright management societies. This is particularly so in an era where in the production of a multimedia work there are a large number of different kinds of works involved for various extended uses, and where many multimedia works will be derivative works or works heavily depending on pre-existing materials. However, the current copyright management societies' conduct which involves standard practices and contracts is not necessarily the best solution possible. The potential offered by digitisation advocates for more flexibility, personalisation of the procedures through a more stringent control of the licensing and use of the work and perhaps somehow a return to the primary objectives of the administration of intellectual property rights.

### **10.3.1.2 Collective administration v. central administration**

The possible models of administration of rights by copyright management

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<sup>719</sup> See section 10.1.5.

societies can be described as follows:

- the current model (or model of 'collective administration') where an author who wants to accede to the collecting society at issue has to accept that his work will be licensed for certain uses at a certain price, a pre-defined share of which he has to accept. On the other hand, users of the work are offered standard-type contracts (in the form of blanket licences or packages of works) on a 'take-it-or-leave-it' basis. Subdivision of these packages or negotiation of the price is not an option.

This model is the most inflexible one, but at the same time it is the most cost effective one. It takes no account of special cases, thus administrative and operation costs are kept to a minimum. On the other hand it takes no account of the specific desires of the authors with the result that it either excludes their works from the system or puts pressure on them to allow their works to be subject to uses to which they do not initially agree. On the part of the users, it allows collecting societies to enforce their bargaining power on users by making them buy packages that they will not use in their entirety and that therefore put them at a competitive disadvantage in relation to their potential large scale competitors on the market.<sup>720</sup>

- the model of 'central administration' allows both authors and users to define the use of the works the former wish to license and the latter wish to purchase. The remuneration of the authors and the licences of the users are calculated and priced according to the content of each licence.

This the most flexible model in so far as it takes into account both the desires of the authors (respecting also their moral rights) as well as the needs of the users. What, however, has to be secured is that any rights in any work should be offered to all third parties on an equal basis or they should not be offered at all. Variations

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<sup>720</sup> As could arguably be the case with TV stations and discos.



in licensing procedures are justified only if there is good reason for them if one starts from a dominant position.<sup>721</sup> Although this model takes into account any possible particularity on the part of the parties involved in a licensing transaction, its costs are not substantially or prohibitively higher than those of the previous model, since the system operates in a digital on-line environment with pre-programmed automatic technical devices that can cope with these variations in circumstances. No additional costs are required in terms of expertise and personnel. In that sense this model is almost as cost effective as the previous one.

In view of the pros and the cons of the two above models it is clear that the balance tends to favour the second solution as the fairest one and the one that is closer to the principles of copyright. In the light of digitisation it is very likely that if the *Lucazeau* and *Tournier* cases<sup>722</sup> were to be decided in relation to digitised works, whose rights could be cleared on-line, the European Court would have reached an entirely different decision, probably favouring the subdivision of SACEM's repertoire.<sup>723</sup> Yet even if one opts for the system of central administration there are some important questions to be answered. First, should there always be a society that receives the royalties of a licence or could it also be the rightholder himself who receives it directly? And secondly, is consent for the particular uses of one's work presumed as long as one registers one's work with a collecting society's databases or has it to be certified on each occasion?

It is true that digitisation offers the opportunity for one to collect one's royalties immediately even if the collecting society acts as an intermediary. In fact two options are possible. The collecting society can either conclude the transaction and let the authors' share of the royalty be transferred automatically to the authors'

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<sup>721</sup> I.e. in cases where one does not provide the guarantees of use in relation to a particular work. See in this respect case 238/87 *Volvo v. Erik Veng* [1988] ECR 6211, [1989] 4 CMLR 122.

<sup>722</sup> *Op. cit.* note 716.

<sup>723</sup> See the reservation put forward by the court in these cases. « ...unless access to a part of the protected repertoire could entirely safeguard the interests of authors, composers and publishers of music without thereby increasing the costs of managing contracts and monitoring the use of protected musical works », *op. cit.* note 716, at 292.

account or receive it first and transfer it only at a second stage. This can also be done where the collecting society that one deals with is no more than an agent for the various collecting societies that possess the various kinds of works. Both systems can still operate in this case. Yet in a multimedia context where everything has to be efficient and cost effective, direct transactions, either through a collecting society which administers rights for all kinds of works or a collecting society-agent, represent the best possible solution.<sup>724</sup>

In relation to the second question three solutions are possible. The author's consent can be presumed by the fact that he allows the administration of his rights in his work. Even before he allows the collecting society to administer those rights he has specified the uses to which his work can be subjected. The second alternative is that as soon as a user shows an interest in a particular work the collecting society acts as an intermediary in order to obtain the author's accord. Lastly, the society allows the use of the work and is responsible for acquiring the consent of the author only after the transaction has been concluded.

Although the first model is the simplest and the most efficient one in terms of administration, it puts some constraints on both authors and users. First, authors have to accept in advance a package of pre-defined uses. Even if they have the right to determine these uses themselves, it still is difficult for them to go back later and withdraw some of them. In fact they lose control over who gets a licence for their work and what use is made of it. Although this might be desirable in the sense that a work is licensed to everyone under the same terms and conditions, it does not allow the author to receive information about and to take account of the particularities of each case and the identity of the user. In this sense his moral rights protection becomes invalid and his copyright in the work becomes the provision of a work against a fee. On the other hand, third parties will not be able to negotiate further uses of the work with the author if he has not permitted these uses in the first place or if he had not known about these uses at the stage where he commissioned the collecting society to administer the rights in his work.

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<sup>724</sup> US White Paper, *op. cit.* note 25, at 191.

The second model takes into account the particularities of each case by allowing the rightholder to assess each situation and to decide either to license or not to license his work. Each refusal, of course, must be justified (at least on moral grounds),<sup>725</sup> otherwise competition law issues come into play in cases where the rightholder possesses a dominant position in the market.<sup>726</sup>

The third model is as problematic as the first one in the sense that although it allows some control on the part of the author, that control comes at a late stage where in most situations damages by way of remedy are the only possible result. It is efficient only in the sense that the user of the work can immediately proceed with his production without risking delays by the author. However these delays need not be substantial, if they are well moderated. And in a balancing of interests, what outweighs everything is not the production of the new work but the certainty of the clearance of rights in the works that are to be included in the new production.

The best solution possible seems to be a mixture of the first and the second model with the opportunity for the author to receive his share for the use of his work directly. In that sense the author can decide himself whether he wants to give blanket authorisation to a collecting society to use his work as he wishes or whether he wants to be asked before any use takes place. That allows the author to evaluate the particularities of each case and also allows the users to negotiate further deals with the rightholders since the personalisation of the rights in the work are not totally lost through the operation of a collecting society. The parties themselves can continue to play a substantive role.

### 10.3.2 Unfair competition law considerations

The new picture in relation to collecting societies in the digital era brings in a

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<sup>725</sup> This is not an issue entirely solved in a EU competition law context, since European law does not immediately take moral rights protection into account.

<sup>726</sup> See *Volvo v. Veng*, *op. cit.* note 720.

number of unfair competition law considerations. First, the dominant position of these societies is strengthened by reason of their collaboration in order to be able to deal with more kinds of works in ever larger territories. That means that dominant undertakings are more prone to abuse their position by imposing unilateral rules that other parties have no option but to accede to if they do not want to be left out of the market. Second, copyright in certain works produced today, whose utilitarian and functional nature is prominent, might cause trouble by blocking raw materials for the creation of further works and for the access to information by the public.<sup>727</sup>

### 10.3.2.1 Abuses by dominant copyright management societies

In a series of cases on collecting societies the European Commission and the Court of Justice have already provided some answers to and guidelines for some of the issues involved. Dominance as such is not an infringement.<sup>728</sup> Infringement starts where one abuses one's dominant position by imposing unfair and discriminative conditions on others. A number of such cases were found by the European Commission in GEMA<sup>729</sup> and concerned discrimination on grounds of nationality and excessive obligations towards members such as excessive assignment periods, assignment of future works, long waiting periods for the acquisition of benefits under the social fund, no right of judicial recourse, etc. These infringements were swiftly ironed out. A second issue which came under

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<sup>727</sup> The fact that copyright affords its holder an exclusive right makes it more prone to create a monopoly, depending, of course, how narrowly one defines the market. That will be the case particularly for content providers in the multimedia era where large companies acquire many copyrights and rights in non-copyrightable materials or materials in which copyright has expired in order to use them either to produce multimedia products themselves or license them out for that use. See M Berlins « *The image brokers* » 1998 Hotair 15 (Virgin Atlantic's inflight magazine), where it is explained how Bill Gates, Ted Turner and Mark Getty acquire rights to great art and how they plan to charge for access to the world's visual history. See also W Schwartz, « *Legal issues raised by strategic alliances involving multimedia* » (1993) 10 The Computer Lawyer (n° 11), 19.

<sup>728</sup> *Volvo v. Veng*, *op. cit.* note 720.

<sup>729</sup> *GEMA Decision* (1971) OJ L134/15.

scrutiny, this time related to the users, was whether collecting societies were charging excessive royalties. The ECJ's view in this respect was favourable to the users. It found that any substantial difference in royalties between Member States had to be justified by reference to objective and relevant dissimilarities between the situation of the collecting societies of the various Member States after a comparison on a consistent basis had taken place. Yet in its judgment it made it clear that such particularities would be the exception rather than the rule. The third issue referred to the ECJ was whether the collecting societies' refusal to subdivide part of their repertoire was an infringement under article 82EC (ex 86EC). The ECJ took into account the interests of the authors and the impossibility of the collecting societies checking what exactly a disco (that was the plaintiff in the case at issue) was playing and for how long since that would involve excessive administrative costs. They came to the conclusion that such conduct was not abusive, however, that would not be the case if a potential subdivision of the repertoire could entirely safeguard the interests of the authors without thereby increasing the costs of managing contracts and monitoring the use of protected musical works. Although all these judgments that were based on preliminary rulings looked as if the European Union intended to take substantive steps to control the conduct of collecting societies in Europe, a last decision in the *Tremblay* case<sup>730</sup> reversed any expectations in this respect. In this last case the ECJ did not get into the substance by reason of lack of Community interest.<sup>731</sup> The decision was left to the national courts.

As we previously explained, the facts have changed dramatically in the digital era. Their impact however, is prominent on the second and the third issues

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<sup>730</sup> Case T-114/92 *Bureau Européen des Médias de l'Industrie Musicale (BEMIM) v. EC Commission* [1995] ECR II-147, [1996] 4 CMLR 305. And Case T-5/93 *Roger Tremblay v. EC Commission (Syndicat des Exploitants de Lieux de Loisirs (SELL), intervening)* [1995] ECR II-185, [1996] 4 CMLR 305 and Case C-91/95 *Roger Tremblay v. EC Commission* [1996] ECR I-5547, [1997] 4 CMLR 211. See also P Torremans and I Stamatoudi, « *Collecting societies : sorry the Community is no longer interested !* » (1997) 22 ELRev 352.

<sup>731</sup> Presumably because of the role collecting societies are bound to play in the information society.

that we discussed in the previous paragraph. The automatic functioning of the various administration systems on-line have decreased the costs of administration even more and therefore the calculation of the various royalties might need to take place on an individual basis. In relation to the subdivision of a collecting society's repertoire it is rather clear that it is no longer a justifiable solution to ask users to purchase blanket licences for all the works administered by the collecting society. This is so, first because collecting societies in a multimedia context administer works of various kinds and not only musical, audiovisual or other works. And secondly, even if the price for a blanket licence of this nature were low, it would still be unfair to pay the full price if one only needed a tiny part of the repertoire compared to a large scale user in whose interest it is to pay a low price for all the works, or works in a package, if he intends to use all or most of them. Offering licences for separate works no longer incurs high administrative costs in view of the fact that the use of these works can be controlled through the use of technical devices. In addition to that the internationalisation of the operation of such central units of administration of copyrights, or even works out of copyright<sup>732</sup> (where competition law should be applied even more strictly) will no longer be a matter that is only of national significance. It is evident that in that context arguments of 'no community interest' are no longer viable.

#### **10.3.2.2 Copyright in small amounts of information**

The second problem we set above was copyright in small amounts of information. As regards multimedia works there will only be rare cases where such a work will be regarded as information or indispensable material for the creation of further works. As we explained in earlier chapters, multimedia works are usually highly creative works attracting copyright protection on this basis. Yet we cannot exclude altogether the case of a work that is utilitarian in nature which would

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<sup>732</sup> Either works that do not attract copyright protection or in which copyright protection has expired. However, they might attract *sui generis* protection.

nevertheless attract copyright on the basis of a UK criterion of originality that only involves skill and labour. This can also be the case with works that are functional or utilitarian and are to be included in a multimedia product.

A similar and very interesting case has come before the European Court of Justice in relation to copyright protection in TV programme listings. Magill, an Irish publisher, wanted to publish a comprehensive weekly television guide, containing the forthcoming television programmes of BBC, RTE and ITV that were the channels received in Ireland and Northern Ireland. However, Magill was prevented from doing so on the basis that the broadcasting companies involved had copyright in these TV programme listings. The Court came to the conclusion that these companies had both a factual and a legal monopoly over the production and first publication of their weekly listings. In the case at issue the companies abused this monopoly by denying licences to Magill on the basis of the presence of 'exceptional circumstances'. The exceptional circumstances that were found in this case were three. First, the Court estimated that there was no substitute for that kind of product on the market, although there was a specific, constant and regular potential demand on the part of consumers. The broadcasting companies were the only source for this information and by refusing to supply the raw material, they prevented the emergence of a new product (i.e. the essential facilities doctrine). Second, the broadcasters' refusal to supply was not justified either by virtue of the activity of television broadcasting or that of publishing television guides. And third, the broadcasters' refusal to supply Magill with their programme listings was in fact a denial of access to basic information, which was indispensable for the creation of a weekly comprehensive TV guide. In that way they reserved for themselves a secondary market, excluding in that market all other competition.<sup>733</sup>

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<sup>733</sup> See the *Magill* case, *op. cit.* note 143. See also for a very similar set of facts and for a similar legal analysis *CMS v. France Télécom* Cour d'Appel de Paris, 1ère Ch. sect.A, 7.2.1994. The crucial point of the latter judgment was summarised by N. Muenchinger as meaning «that when an entity (in this case France Telecom) collects and commercialises data within the scope of a public service 'mission' (in this case, nominative data concerning its 'orange list' of subscribers), it benefits from a competitive advantage which generally places it in a dominant position and it does

There has been much criticism of this decision and fear as to how far this case and the 'exceptional circumstances' device would go in order to eliminate exclusive rights in copyright material that in the view of the Court did not deserve copyright protection. Of course, such a declaration would supersede the Court's competence. The reality however was that this judgment managed to extinguish the specific subject matter in a work which was highly utilitarian and functional. The *Ladbroke* case<sup>734</sup> that followed indicated that *Magill* is to be used narrowly and only in exceptional cases. In the case of multimedia works one has to prove first that the work constitutes basic information indispensable for the creation of a new product. Second, the prevention of the emergence of that new product results in the prevention of the emergence of a secondary market that is not part of the licensor's main activity. All these circumstances have to exist cumulatively.

In *Volvo v. Veng* it was also made clear that a refusal to license one's rights comes squarely within the specific subject matter of one's intellectual property right. Yet problems arise when one decides to license one's rights on a discriminatory basis without any justifiable reason. Such conduct is likely to fall foul of article 82EC (ex 86EC) if one proves that the rightholder holds a dominant position. The conclusion that anyone holding an intellectual property right is in possession of a legal monopoly and therefore a factually dominant position, though tempting, is not the right conclusion. Considerations as to the market share have also to be taken into account. Yet how narrowly or widely we define the market is another issue and indeed we might find ourselves in situations where the market will have to be defined so narrowly that an intellectual property holder will be *de facto* a holder of a dominant position.

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not have the right to refuse to communicate such data to a competitor without being vulnerable to a claim of abuse of that position». «*French law and practice concerning multimedia and telecommunications*» [1996] 4 EIPR 187, at 193.

<sup>734</sup> Case T-504/93 *Tiercé Ladbroke SA v. European Commission (Société d'Encouragement et des Steeple-Chases de France intervening)* [1997] 5 CMLR 309. See also case C-7/97 *Oscar Bronner GmbH & Co. KG v. Mediaprint Zeitungs- und Zeitschriftenverlag GmbH & Co. KG and Others*, [1999] 4 CMLR 112.



Compulsory licences in these circumstances might be a solution as long as they do not clash with the essence of the intellectual property right itself if that right is derived from a work that deserves copyright protection on grounds of originality. Many will agree that this is initially an issue for the national law to judge, whilst the role of competition law is to block excesses in this area as well as abusive use of the national rights. The lines should therefore be drawn high enough in order not to make multimedia products, or any other work, vehicles of undeserved exclusive rights that result in monopolies blocking further evolution and creation in the area. That is increasingly so for multimedia products that are essentially derivative works or works depending on pre-existing materials. The rights in the investment and those in the creation should be distinguished and protected accordingly as is the case with databases and their copyright and *sui generis* protection.

### 10.3.3 Conclusions

The conclusion is that in a multimedia context the shopkeeper of our initial example should ideally be a central unit acting as an agent or a principal that provides information on works that can be licensed. The tag on every single work should contain the uses allowed by the rightholder of the work subject to his prior consent. The client should be able to choose amongst these uses and pay a price that is calculated on the basis of the uses he purchases. If the work is not on offer for a particular use he either has to move on to another work, or if that work is indispensable to him, he has to prove that refusal by the author constitutes an infringement of his dominant position. In this exceptional case, however, he has to prove first of all that the author holds a dominant position in the market in relation to that work, which is considered to be indispensable information for the creation of a new product which does not come within the sphere of activity of the licensor and for which there is a constant demand on the part of the consumers. He also has to prove that a refusal to license this product necessarily results in the prevention

of the emergence of a secondary market. If the author has already licensed his product for similar uses to other parties, he has to have a good reason for not licensing it to the next applicant. The fact that the investment put into the creation of a product has to be taken into account even in these situations where the product is not capable of attracting copyright protection is a separate issue that has been considered in the previous section of this chapter.

## CHAPTER XI

### CONCLUSIONS

#### 11.1 A regime of protection for multimedia products : a mixture of the regime for films and the *sui generis* right for databases

Multimedia products have successfully captured the international market.<sup>735</sup> They have managed to introduce new methods in education, information, trade, security and entertainment.<sup>736</sup> They have redefined the notion of communication. However, their economic growth and further success on the market requires rapid and efficient action as regards their legal status and protection.

Since multimedia products can be considered 'creative' works of the mind and since they do incorporate traditional types of works, such as images, text, sound, etc., copyright seems to be the appropriate means for their protection.<sup>737</sup>

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<sup>735</sup> The multimedia market has seen an exponential growth in terms of turnover in the first half of the 1990's. Various estimates are available and whilst all of them show huge growth on average one found that the figures for 1995 and 1996 (\$12.5 to 17 billion) were between 5 and 10 times higher than those for 1989 or 1992 (\$1.2 to 3.2 billion). For further details see G Vercken, Practical Guide to Copyright for Multimedia Producers, European Commission, DGXIII, 1996, at 16 seq. Other sources indicated that the growth in turnover was expected to continue and that by 1997 it could reach the figure of \$23.9 billion, excluding videogames. See Interactive Multimedia Association (Annapolis, USA.), as referred to by M Radcliffe, «Legal issues in new media technologies», (1995) 12 The Computer Lawyer, issue n° 12, at 2.

<sup>736</sup> « The CIA uses it for language training ; InterOptica, for travel guides to foreign destinations ; Sony, for a press release ; Time magazine, for a history of the Desert Storm invasion ; the state of California, for kiosks at which residents eventually will be able to pay traffic tickets and renew drivers' licenses ; and the America Media Center in Denver, to provide information on cancer treatment to nonliterate people ». J Eckhouse, "Multimedia is electronics megatrend blend of art with high-tech promises to change the world" S.F. Chron., 7 December 1992, at B1, available in Lexis, Nexis Library, Papers file.

<sup>737</sup> Since computer programs are protected by copyright multimedia products that are often more

This thesis has tried to show that the modern and more advanced version of multimedia works, otherwise known as the second generation of multimedia products, cannot always be adequately accommodated by the current copyright legislation either because we are confronted with cumulative qualifications or because we are faced with a legal gap (*vide juridique*) where no protection is suitable or available.<sup>738</sup> Their effective protection requires the introduction of new legislation<sup>739, 740</sup> which will preferably have to draw upon the paradigms of two

creative works should be protected as well.

<sup>738</sup> J Ginsburg alleges that in the US multimedia works maybe considered either an audiovisual work or a compilation or both. It is interesting to note that the US does not seem to draw strict borderlines between the various categories of copyright works. "*Domestic and international copyright issues implicated in the compilation of a multimedia product*" (1995) 25 Seton Hall Law Review 1397, at 1399.

<sup>739</sup> It has been discussed in previous chapters that the introduction of legal rules is dictated by the needs of the market, i.e. when the balance between innovation - production – consumption is not the right one.

<sup>740</sup> G Wei argues that «for these reasons, it may be desirable to consider creating a new category of copyright subject-matter to specifically protect multimedia databases. The advantages of such an approach include the following points:

Direct protection is given to the efforts of the multimedia database producer in selecting the material for compilation into the multimedia application.

It will not be necessary to stretch existing copyright categories to cover what is essentially a new media for presentation of information.

It will more easily enable policy makers to determine the scope of the protection, including available defences, without affecting established copyright principles for existing categories of copyright subject matter.

It will more easily enable policy makers to tailor the new category to suit the needs of the industry and the public at large. For example, it may be thought desirable that any new multimedia copyright category should place primary emphasis on protecting the investment of the 'entrepreneur' behind the development of a multimedia package. That being so, the copyright in 'multimedia works' may more appropriately be conferred on the person who made the arrangements to produce the multimedia work rather than on the 'author' of the multimedia work. Other specific issues such as the question of whether networking rights are to be conferred in respect of multimedia works could also be addressed».

essential categories of copyright works, i.e. films and databases. This legislation has to be twofold. It should provide for copyright protection, along the lines of films<sup>741</sup> for those multimedia works that are creative and for *sui generis* protection, along the lines of databases, for those multimedia works that are not capable of attracting copyright protection in the first place.

The need for introducing a separate category of copyright works to accommodate multimedia products is dictated by the fact that multimedia products are 'different' from existing copyright works. What makes them 'different' is the fact that the vast amounts of various expressions that are contained in a multimedia product are integrated. Integration is made possible because of digitisation. However, integration rather than digitisation is the key concept, because «the digitisation of works does not originate a new kind of object of protection - it rather transforms the well-known kind of literary works, musical works and the like into a new format, into a binary, machine-readable code. This is in principle not unusual for copyright; the recording of musical works onto tapes and the transformation of sound into magnetic signals generated thereby is a famous example».<sup>742</sup> Although various expressions were combined in the past in an analogue environment, there was never integration, or at least, not to the extent that a result was produced that was substantially (qualitatively) different from the elements initially combined. It is integration and interactivity, provided by a software tool, which make the added value of a multimedia product. This added value<sup>743</sup> renders multimedia works a new species of work.

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*"Multimedia and intellectual and industrial property rights in Singapore"* (1995) 3 International Journal of Law and Information Technology 214, at 244-245.

<sup>741</sup> With various adaptations, though.

<sup>742</sup> U Loewenheim, *"Multimedia and the European copyright law"* (1996) 27 IIC 41, at 44. There seems to be a lot of exaggeration when the issue of digitisation is discussed. Digitisation does not transform a work. A literary work remains a literary work and a musical work remains a musical work. However, digitisation enables certain things to happen, such as easy copying and manipulation of works.

<sup>743</sup> See also the strong views expressed by M Scott, *"Pre-existing content: the 'emperor's new*

At an earlier stage we reached the conclusion that multimedia works have certain features in common with films, especially as regards their looks and process of creation. We have, however, explained in the relevant chapter that these apparent similarities cannot take us as far as allowing a multimedia work to qualify as a film and applying *per se* the corresponding regime of protection.<sup>744</sup> Since the regime of protection for films seems to take into account the audiovisual effects of films, the investment of the producer and the creative role of the editor, these are also features that can be used in the context of the protection of a multimedia work.

In an ideal regime of protection for multimedia works the publisher/producer and the editor of the multimedia work play a very important, if not the most important role, in the realisation of the project. The publisher conceives the idea and sinks the necessary investments into it, whilst the editor undertakes to create the final image of the product. If one takes into account how multimedia works are produced today one realises that investment can be as significant as creation, and creation is heavily assisted by team work, whilst aided by information and software tools that again require substantial sums of money. From this point of view both the producer of the multimedia work and the editor should be vested with the necessary rights in order for the former to recoup his investment and the latter to be compensated for his creative labour. If the British model on films is to be followed both the publisher and the editor of a multimedia work should be afforded authorship. In a continental context, where only natural persons can qualify as authors, the editor should be the author and the first owner of the rights in the work. At a second stage by the operation of the law and by reason of a legal presumption these rights should be automatically transferred to the publisher. Of course, the moral rights will still remain with the editor.

Since multimedia products are to be protected by copyright the same exclusive rights that are afforded to the authors of any copyright work will also be

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*clothes' of the multimedia 'kingdom'. 'It's the content, stupid!'" [1995] 11 The Computer Law and Security Report 255.*

<sup>744</sup> Unless, of course, the particular multimedia product possesses all the characteristics of a film.

afforded to the author or authors of multimedia products. It is interesting to note though that the new WIPO Treaties make it clear that the temporary reproduction of a work also comes within the scope of the right of reproduction. In that sense a wider right of reproduction is afforded to authors which however might need to be accompanied by a limited set of exceptions.<sup>745</sup> In the light of this, private copying should not be allowed,<sup>746</sup> whilst the fair dealing provisions might have to be limited significantly in the future.<sup>747</sup> However, the issues just mentioned do not relate particularly to multimedia products. They are considerations relating to all digitised works and will have to be the subject of separate scrutiny by the international and the EU working parties in this area.<sup>748</sup>

The existing moral rights provisions do not seem to create insurmountable problems. However, in an ideal regime of protection the British provisions on moral rights might prove to fall foul of the effective protection of the works in the digital era. It is also interesting to note that even entrepreneurs are favourable towards a revision of the moral rights provisions in view of the tremendous

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<sup>745</sup> It is at least arguably the case that «rights and exceptions are intertwined; if the scope of rights increases, exceptions must be widened accordingly». *The EC Legal Advisory board's reply to the Green Paper of Copyright and Related Rights in the Information Society*, [1996] 12 *The Computer Law and Security Report* 143, at 147. See also in this respect the Commission's amended proposal for a European Parliament and Council Directive on the harmonisation of certain aspects of copyright and related rights in the information society.

<sup>746</sup> In the same way it is not allowed in relation to electronic databases. See art.6.2(a) of the database Directive.

<sup>747</sup> See in this respect the provisions on exceptions to restricted acts in the new WIPO Treaties. See also J Cohen's comments on the future of the fair use exception in the US in "*WIPO Treaty implementation in the United States: will fair use survive*" [1999] 5 *EIPR* 236. See also J Goldberg, "*Now that the future has arrived, maybe the law should take a look: multimedia technology and its interaction with the fair use doctrine*" (1995) 44 *The American University Law Review* 919.

<sup>748</sup> It is also interesting to note that the notion of 'public' in the context of public performance, display or transmission has also taken a wider meaning since it also includes transmission into the private sphere of a person, i.e. on his computer at his home as long as he is a subscriber to that service or that service is made available to a considerable number of persons.

opportunities of manipulation that digital technology provides.<sup>749</sup> Perhaps this time both entrepreneurs and authors will find themselves working on the same side. Possible changes in the UK law might need to take place as regards the provisions on waivability. Waivers might need to be restricted along the lines of the 1994 Belgian Copyright Act where waivability is allowed only in relation to specifically designated acts as regards existing works only and never by means of a blanket waiver. On the other hand France and countries that follow its paradigm might need to reconsider the sustaining of certain of their moral rights provisions as placing unnecessary constraints on the publishers of multimedia works such as the right of withdrawal and the lack of any provisions on waivability. This might be especially so given the fact that multimedia works are derivative works being often based on adaptations of pre-existing works.

Apart from copyright protection there should also be a provision for *sui generis* protection along the lines of databases. Copyright and *sui generis* protection should not be given cumulatively, since, as we discussed in the relevant chapter, they seem to amount to the same thing (we would grant a right of reproduction twice) in view of the inability of assessing the originality of a multimedia work on the merits of the selection and arrangement of its content. In cases where multimedia products will not attract copyright protection but substantial investments are made for their realisation they should not fall prey to potential infringers. This role can be undertaken by a *sui generis* right which in reality will be a form of a limited unfair competition law protection. Makers of 'unoriginal' multimedia products that required a qualitatively and/or quantitatively substantial investment for their realisation will be given the exclusive right to prevent extraction and/or re-utilisation of the whole or of a substantial part of their product for five years.

No special provisions for compulsory licensing should be introduced.

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<sup>749</sup> Producers might convince authors to use their moral rights protection in order to block unauthorised use of their works if the producers themselves have already transferred the economic rights in the work.



Compulsory licensing seems to contradict the principles of copyright especially in those countries that hold a strong attitude towards the work as being the extension of the author's personality. In that sense compulsory licensing would undermine the provisions on moral rights' protection. In any case the traditional provisions on competition law can put right those situations that supersede the boundaries of a well-intended copyright and abuse its rights. *Magill* forms a characteristic example in this respect.

Authors should also be given the choice between individual and collective administration of their rights. However, there has to be a platform for collective administration for those that opt for such a system, preferably along the lines of the model of central administration of copyrights, as described in the relevant chapter. Initiatives on central globalised systems of one-stop shops should be encouraged and brought to completion sooner rather than later in order to facilitate clearance of rights and boost production further.

The task of clearance of rights can also be assisted by technical devices. In any case technical protection devices should be introduced and perhaps imposed in order to assist the law to track down trespassers and prevent unauthorised copying. In the same context copying devices that circumvent the law might need to be outlawed along the lines of article 7 of the software Directive.<sup>750</sup>

What, however, has been prevalent in our discussions so far is the international character of multimedia products and the fact that the problems they present are necessarily problems felt almost round the globe. National solutions in the area of multimedia can only bring a limited benefit to the nationals of that state or to the products marketed therein but will definitely not solve the multimedia

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<sup>750</sup> Art.7.1(c) « ...Member States shall provide, in accordance with their national legislation, appropriate remedies against a person committing ...any act of putting into circulation, or the possession for commercial purposes of, any means the sole intended purpose of which is to facilitate the unauthorised removal or circumvention of any technical device which may have been applied to protect a computer program » EC software Directive, *op. cit.* note 95. See also art.11 WCT and art.18 WPPT.

issue within the EU.<sup>751</sup> It is also apparent in this thesis that multimedia products may qualify as different things in different countries. That, of course, is bound to cause confusion and uncertainty on the market. It goes without saying that a harmonised approach on the issue would form the most effective solution regarding also the impact that multimedia works have in the Single Market. It is also submitted that the effects of intellectual property in the Single Market, because of its increasing significance are such that even those areas that were traditionally left to the Member States' discretion, such as moral rights, compulsory licensing, technical devices and collective administration, should also be considered carefully and a harmonised position should be envisaged. New technology creations are no longer problems of a national scale. Their international marketing and subsequently their impact therefrom dictates action at a European if not at an international level.<sup>752</sup> Obviously, a global solution is to be preferred, but if such a solution cannot be achieved, an EU solution will be a good second best alternative.

## 11.2 Wider implications for copyright

Although in the past copyright has managed to cope with technical and economic evolution, and has as a result of that been able to incorporate new categories of works, such as broadcasts, films, computer programs, and so on within its scope of protection, multimedia products represent a challenge to it as no other work ever before. The question of incorporating multimedia within its scope

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<sup>751</sup> 75% of CD-ROMs are marketed on an international basis from their initial release. D Werbner, "The multimedia environment: the broadcasters' perspective" in C Van Rij and H Best Moral rights, Reports presented at the meeting of the International Association of Entertainment Lawyers, MIDEM 1995, Cannes, Maklu Publishers, 1995, 225, at 236.

<sup>752</sup> It is easier to reach a solution at EU level than at a national level since most Member States are not prepared to depart from their traditional views on copyright. But even if they did so disparities would be created which would be difficult to reconcile in the future where there is likely to be a potential need for harmonisation.

of protection is not only a question of adaptation for copyright. It is more a question of *change* that started modestly with the inclusion of computer programs. It is that question that puts under close scrutiny and revision copyright's primary principles and rationale (*raison d'être*) and might perhaps lead to the redefinition of the notions of authorship, creation, moral rights and so on. Changes in copyright at that stage are not only of a quantitative but of a qualitative nature. It is felt that copyright is somehow re-conceptualised.

The changes so far are the result of four essential trends in the area. First, works are no longer created according to the traditional process where a sole author, usually lacking financial means, was trying to put on a piece of paper or on a canvas the expression of his personal ideas and ideals. Today the creation of a work resembles more an industrial activity. Many works are commissioned, put together by a number of 'experts' in various areas, require huge investments and their creation is aided by information and software tools. Second, 'original creation' increasingly loses ground as new works are largely based on pre-existing materials that are either reconstructed or solely adapted in order to achieve a new result. Third, the incentive for the creation of a work is no longer the author's personal desire and inspiration but there are commercial and market needs that also dictate the final content and outcome of the work. Lastly, the increasing provision of on-line services and the digitisation of the various expressions has dematerialised the notion of a work. The work is distinguished and separated from its material support.

The results of this new reality can be summarised as follows:

In relation to the first trend,

- Works today resemble products more and occasionally they can be bundled together with «copper, soya beans and livestock».<sup>753</sup>

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<sup>753</sup> Th Dreier, "*Authorship and new technologies from the viewpoint of civil law traditions*" (1995) 26 IIC 989, at 998.

- Creations are replaced by technical, utilitarian and functional works that are also used as tools for the further creation of new productions.
- As authors are increasingly replaced by producers, the weight of originality is accordingly replaced by the weight of investment.<sup>754</sup> Sources capable of providing this investment are no longer poor natural persons but rather multi-billion multi-national undertakings.
- Moral rights protection loses its significance when alienated from the notion of the traditional author and either becomes irrelevant or is used as a tool to increase financial gain.
- The more investment is rewarded the less copyright is needed to perform its traditional functions.
- Neighbouring and *sui generis* right seem to replace copyright in those areas where originality is absent. However, the limitation of copyright signifies a shift from property rights to unfair competition law.

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<sup>754</sup> At EU level some radically new rights have been introduced that show clearly the shift towards a more entrepreneurial approach. These rights are 1) the right of protection of previously unpublished works. «Any person who, after the expiry of copyright protection, for the first time lawfully publishes or lawfully communicates to the public a previously unpublished work, shall benefit from a protection equivalent to the economic rights of the author. The term of protection of such rights shall be 25 years from the time when the work was first lawfully published or lawfully communicated to the public». (Art.4 of the EC term Directive, *op. cit.* note 231. 2) the right of protection for critical and scientific publications. « Member States may protect critical and scientific publications of works which have come into the public domain. The maximum term of protection of such rights shall be 30 years from the time when the publication was first published ». (Art.5 of the same Directive). And 3) the *sui generis* right for databases (art.7 of the EU database Directive, *op. cit.* note 47). See also M Vivant, “*L’incidence de l’harmonisation communautaire en matière de droits d’auteur sur le multimédia*”, Commission of the European Communities, DG XIII, Copyright on electronic delivery services and multimedia products, series Vol. 3 (EUR 16068 FR, ISSN 1018 – 5593), at 33-34.

In relation to the second trend,

- Works that are increasingly the result of team-work render authors contributors.
- Copyright protection is shifted from original works to compilations, databases and derivative works. That is perhaps the most important alienation of copyright.
- The notion of authorisation solely on the part of the author without other criteria being taken into account weakens in view of potential compulsory licensing, collective administration and competition law considerations.
- The increasing need for the introduction of collective administration of intellectual property rights schemes and the fact that copyright can only be enforced with difficulty in the digital era turn copyright into a right of authoring against a fee, diminishing substantially the value of moral rights protection.
- The role of moral rights is redefined by including both the need of authors to protect their personal interests in the work as well as the public's need to ensure that what it receives on its screen is the authoritative version of the author's original work.<sup>755</sup>

In relation to the third trend,

- Creations are made to be user-friendly and consumer attractive.

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<sup>755</sup> «In the future moral rights will be less about straightforward waiver and more about the appropriate payment to the author in compensation for new derivative products which use content from the original program.... An indication that moral rights are merging into the economic arena is that collecting societies normally solely licensed to represent copyright interests have in certain circumstances purported to represent an author's moral rights. If these rights are purely personal then a third party should not be able to represent the author's interests». D Werbner, "*The multimedia environment: the broadcasters' perspective*" in C Van Rij and H Best Moral rights. Reports presented at the meeting of the International Association of Entertainment Lawyers MIDEM 1995, Cannes, Maklu Publishers, 1995, 225, at 230.

Originality is based on financial considerations and it reflects the market needs rather than the personality of the author.

- The content of the work is approached as data rather than original creations.<sup>756</sup> Original creations are losing ground to information.
- In the light of the above any balance of interests between the author and the public might need to be reconsidered. Extensive protection of information is likely to unjustifiably impede the public's right for access to information<sup>757, 758</sup>.
- In the main considerations on monopolies and joint ventures come more easily into play by reason of the significance of the content of the works in which there is copyright protection. Information can also be blocked more easily because of the granting of exclusive rights in new creations.<sup>759</sup>

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<sup>756</sup> The traditional classification of works in work categories is losing some of its former significance in a multimedia environment. They are all stored in the same bitmap file, forming part of a homogeneous product, where distinction between different work categories seems to make little sense. U Loewenheim, "Multimedia and the European copyright law" (1996) 27 IIC 41, at 45.

<sup>757</sup> Any new legislation in the area has first of all to be flexible enough to accommodate the interests of the parties involved and all future technological developments in the area. The basic interest groups involved are 1)the deviser(s) of the product, 2)the competitor, 3)the consumer, 4)the general public and 5)the interests of the developing world. M Pendleton, "Intellectual property, information-based society and a new international economic order - the policy options?" [1985] 2 EIPR 31, at 32.

<sup>758</sup> The balance in the triptych innovation-production-consumption might need to be reconsidered.

<sup>759</sup> Some examples in this respect are the First Cities Group of twelve multimedia companies that includes Apple, Bellcore, Kodak, Daleida and Tandem among others. See also Bell Atlantic's attempted merger with Tele-Communications Inc., AT&T's proposed acquisition of McCaw Cellular Communications Inc., the deal between QVC and the Home Shopping Network, and Viacom's victory over QVC ending a controversial bidding war for Paramount Communications. J Choe, "Interactive multimedia: a new technology tests the limits of copyright law" (1994) 46 Rutgers Law Review 929, at 937-938. Interesting in this respect will also be the results of the intended joint venture between BT and AT&T.

In relation to the fourth trend,

- Information is valuable *per se* and is distinguished from the medium on which it is carried.<sup>760</sup>
- Manipulation is easier since the potential hurdles that material supports set are removed.
- The right of reproduction has been widened in order to include temporary copies and on-line transmission of works.<sup>761</sup>
- The notion of 'public' has been stretched to include even communication to private parties as long, of course, as these parties form part of a wider abstract 'public'.<sup>762</sup>

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<sup>760</sup> This separation is made possible because of digitisation. Digitisation can arguably be considered as a fifth trend, which enables easy copying and manipulation of works, leads to difficulties in distinguishing between the various categories of works and lastly, abolishes any physical constraints of time and space. However, in reality digitisation is a tool that gives rise to quantitative rather than qualitative changes. On the characteristics of digital works see the reference to P Samuelson's list: of characteristics of digitally based works in G Gervaise Davis III, "*The digital dilemma: copying with copyright in a digital world*" (1993) Copyright World (issue 27 February 1993) 18, at 19-20: «(1)Ease of copying or capturing the data from any work, 2)ease of distribution or transmission of the captured idea, 3)ease of manipulation or editing the captured data, 4)ease of storage of the data because of digital compaction, 5)ease of searching and linking of such digital data and 6)equivalence of digital works creates classification problems under the copyright laws, which laws provide different rights for different types of works and media».

<sup>761</sup> E.g. «browsing» is also included. See art.7 of the WCT and M Ficsor, "*The spring 1997 Horace S. Manges Lecture – copyright for the digital era: the WIPO «Internet» Treaties*" (1997) 21 Columbia – VLA – Journal of Law and the Arts 197, at 203.

<sup>762</sup> This includes the phenomena of «pay-per-view», «pay-on-demand», etc. Public communication traditionally means communication to a large number of people at the same time. It is also important to note that as A Christie points out «with the advent of communications networking, transmission of data is no longer limited to that which occurs on a one-to-one basis (as is the case with standard telephone communication) or on one-to-many basis (which is 'broadcasting'). The networking of communications facilities allows transmission of data on a many-to-many basis, or indeed on an all-to-all basis.», "*Reconceptualising copyright in the digital*

The current role of copyright is restricted in the digital era as regards the protection of authors and its emphasis is shifted to the protection of works and investors. A more entrepreneurial approach is followed. This shift is bound to be felt more strongly on the Continent than in the UK, since the latter has right from the start regarded intellectual property rights as proprietary rights and has given priority to the economic considerations in the area.

This shift also signifies a move towards narrowing the gap between the civil law and the common law traditions.<sup>763</sup> Member States may feel reluctant to make that move since it will impinge on well-established traditional principles in copyright. Analogy is always an option, though a poor one. What might perhaps assist this move is the introduction of harmonised legislation at either EU or international level.<sup>764</sup> It is also easier for the EU to introduce new legislation since it is in the process of doing so in order to harmonise essential aspects of copyright. The EU originality criterion is a characteristic example of the reconciliation of the two traditions.

In an era of globalisation of communication and trade any attempt to introduce national intellectual property solutions severely disregards the new reality and loses sight of the precise scope of the problems that are emerging. National solutions can only serve as stop-gap solutions. Especially in the light of the Internet and other on-line services, the interests of the authors are necessarily their interests around the globe. A coherent copyright approach needs to have an international impact and needs to have a harmonised 'international copyright' as its

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era" [1995] 11 EIPR 522, at 523.

<sup>763</sup> « Copyright systems would give up the search for a human author much earlier and grant protection to the producer responsible for the investment made much faster, than any of the droit d'auteur systems », Th Dreier, "Authorship and new technologies from the viewpoint of civil law traditions" (1995) 26 IIC 989, at 996.

<sup>764</sup> See on that the views of R Sherwood, "Why a uniform Intellectual Property system makes sense for the world" in Global dimensions of intellectual property rights in science and technology, M Wallerstein, M Mogee, R Schoen (eds), National Academy Press, Washington D.C., 1993, at 68.



principal aim. Such an 'international copyright' will necessarily be inspired by national practices, but it has to go way beyond these practices to achieve its aim. As Ginsburg put it in her paper on the "role of national copyright in an era of international copyright norms" at the 1999 ALAI Conference in Berlin,<sup>765</sup> "'International copyright' can no longer accurately be described as a 'bundle' consisting of many separate sticks, each representing a distinct national law, tied together by a thin ribbon of Berne Convention supranational norms. Today's international copyright more closely resembles a giant squid, whose many national law tentacles emanate from but depend on a large common body of international norms. (At the risk of excessively pursuing this molusk- ular metaphor, I would further note that the squid's body houses its ink; since we all know what happens when a squid releases its ink, we shall hope that this does not foretell an obscure future for international norms)".

The introduction of an 'international copyright' will not be enough to solve all our problems, though. Common law and continental law traditions will still keep some of their particularities. Or as the Chinese say in relation to Hong-Kong. 'one law two systems'. Arguably these variations will not go that far as to jeopardise international trade in intellectual property and create uncertainty as to the status of the same author in various counties. For example, works that are put on the Internet have to be legitimate or illegitimate throughout the whole geographical sphere in which they are received. And for clearance of rights to be facilitated they consistently have to be films or databases in every country, etc. In this respect 'harmonisation' seems to be the magic word and the one inviting us to look into what can bring us together instead of what takes us apart.

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<sup>765</sup> ALAI Conference on "Enforcement of copyright. The role of national legislation in copyright law", Berlin, 16-19 June 1999 (Proceedings to be published in the near future).

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