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## Research Handbook in International Economic Law

Edited by

Andrew T. Guzman

Professor of Law, Boalt Hall School of Law, University of California, Berkeley, USA

and

Alan O. Sykes

Professor of Law, Stanford University, USA

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Edward Elgar

Cheltenham, UK . Northampton, MA, USA

explained by the evolution of an international system for the regulation of the shifting fortunes of nations. Yet when the GATT was established in 1947, the Berne Convention for the Protection of Literary and Artistic Work of 1886. with the Paris Convention for the Protection of Industrial Property of 1883 and perhaps the first element of world trade subject to truly multilateral discipline tional regulation, intellectual property had not been overlooked. In fact, it was World Intellectual Property Organization (WIPO). As a subject of internaintellectual property (IP) under the auspices of what today is known as the very limited attention was paid to 'intellectual property'. This is largely Technology has always played a significant role in economic development and

other levels of governance. largely concentrated at the WTO and WIPO, but also refers to regulation at national levels. This chapter focuses on the multilateral regulatory system IP is regulated at the multilateral, regional, bilateral, national and sub-

## The forms of intellectual property

solve this inappropriability problem. easily appropriate it.). Intellectual property rights ('IPRs') are an effort to enterprises to capture the full value of investments in it (i.e., competitors can ble and typically easy to copy and transport, it is difficult for business to solve the economic problem described by Kenneth Arrow as the 'incomenclosures), intellectual property is mainly protected by sets of enforceable protected by means of physical security devices (such as fences and other creative activity.1 Unlike real property and personal property which is often Intellectual property is a defined set of the intangible products of human plete appropriability of knowledge'. 3 Because intellectual property is intangilegal rights granted to 'owners' or 'holders'. These legal rights are intended

Frederick Abbott et al. (1999) For a detailed technical discussion of intellectual property rights, , see

through security devices, such as data encryption or software anticopy protections. See discussion of encryption technologies in Barlow (1994).

Arrow (1962).

this distinction is no longer particularly relevant. related rights were referred to as 'authors' and artists' rights'. However, with mark were referred to as 'industrial property rights' while the copyright and to an inventor. It is not the invention itself. Historically, the patent and tradegranted to the holder. So, for example, a 'patent' is a set of legal rights granted between industrial property rights and authors' and artists' rights blurred and the advent of the protection of computer software by copyright, the line Intellectual property is usually referred to by the form of 'right' (or IPR)

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the same invention. exceptions. The patent is typically referred to as a 'hard' form of intellectual other IPRs, the rights of the patent holder are qualified by certain important make the invention without undue experimentation. The minimum term of a disclose the invention in the patent application in a way that enables others to and is 'capable of industrial application' (or 'useful').4 The inventor must which is 'new' (or 'novel'), involves an 'inventive step' (or is 'nonobvious') the consent of the patent holder even if the other person independently found property because it excludes another person from using the invention without for sale, selling or importing the invention during the patent term. As with patent under the TRIPS Agreement is 20 years from the filing of the applica-The 'patent' is a set of rights granted to the inventor of a product or process tion. The holder of a patent may prevent others from making, using, offering

be more effective.<sup>6</sup> There is recent concern that an over-proliferation of efficient policy instrument than government subsidies for promoting investgovernment subsidy. Economists generally believe that patents are a more (3) to disseminate technical information to the public.<sup>5</sup> The extent to which the activity; (2) to encourage investment in the products of inventive activity, and ment in innovation, while allowing that in certain circumstances subsidies can patent effectively performs these functions has been the subject of long debate. The principal alternative to using patents to stimulate inventive activity is The patent is intended to perform three functions: (1) to stimulate inventive

industrial application, while American law refers to novel, nonobvious and useful. American law. European law refers to new, involving an inventive step and capable of The criteria of patentability are referred to by different words in European and

al. (1999), at 224–46).

<sup>6</sup> See Nordhaus (1969) Committee on the Judiciary, 85th Congress, 2d Sess. (excerpts reprinted in Abbott et the Patent System, Subcomm. on Patents, Trademarks and Copyrights, of the These functions are elaborated in Fritz Machlup (1958), An Economic Review

patents may impede inventive activity, at least in certain fields, as a 'patent

cantly increase its price and reduce patient access to it. Policy-makers have positive invention-encouraging effects. In some areas, the social cost of allowtions in different fields of technology differ. High-definition television and enhanced access to patients. The social benefits and costs of patenting invenproducers are allowed to copy the drug and enter the market providing justified the social cost as necessary to provide an incentive and reward for the ing market exclusivity may be quite high. By way of illustration, allowing the prices to be charged to consumers, and this cost must be weighed against their access to these products has different social effects. cancer treatment serve different social functions, and limiting consumer innovator. However, the patent term is limited. After some years, generic inventor of a new cancer drug to prevent others from making it may signifi-Patents have a cost to society in terms of allowing higher than competitive

any form of sign, including letters and words, designs, colors, shapes, sounds one enterprise from another in commerce. Trademarks may consist of virtually either on registration or on use in commerce (the latter referred to as 'common in commerce. In civil law jurisdictions, trademark rights are typically based on and scents.8 A trademark allows its holder to prevent others from using an The 'trademark' is a sign or symbol that distinguishes the goods or services of tion' of the trademark holder's interests, i.e., third parties may be prevented the prevention of consumer confusion to encompass the prevention of 'diluregistration. In common-law jurisdictions, trademark rights may be based commerce where such use would result in a likelihood of confusion. identical or confusingly similar sign to identify its goods or services in from 'tarnishing' or 'blurring' the trademark. law' trademarks). In some jurisdictions, trademark rights may extend beyond Trademark rights may last as long as the right holder continues to use the mark

preferred qualities or characteristics. 9 Consumers come to identify certain identification (as a substitute for more costly and time-consuming case-bytion by providing consumers with an easy way to identify products with brands' which they prefer, and make purchasing decisions based on brand It is generally believed that trademarks serve an efficiency-enhancing func-

which business enterprises can invest advertising dollars, stimulating brand useful to encourage investments in goodwill since there is not necessarily a case product analysis and testing). Trademarks also provide a vehicle into consumers make purchases based on artificially stimulated demand). advertising invested in them. This can lead to market distortions (in which correlation between the usefulness and quality of products and the amount of identification and 'goodwill'. 10 Economists are divided as to whether it is

### Copyright

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excluded from copyright protection. Under the TRIPS Agreement the miniciple is often referred to as the 'idea-expression dichotomy', with the 'idea' against unauthorized reproduction or distribution by third parties. Expressive author to be identified with the work, and not to suffer from the mutilation or also protects the 'moral' rights of authors and artists, the extent of protection tion of their unfixed performances, and to rights of producers of sound recordplus 70 years. Copyright also extends to the rights of performers in the fixa-However, in a number of places, including the United States and European mum term of copyright protection is the life of the author plus 50 years material might be considered to embody protectable artistic expression works are broadly defined, and include such things as books, films, music ered a 'soft' form of IPR because it does not preclude independent creation by distortion of the work with which he or she is identified. Copyright is considvarying among jurisdictions. Moral rights extend at least to the right of the treaty developments are now considered the subject of copyright. Copyright ings and broadcasters. These latter rights traditionally were protected as Union, the duration of copyright has been extended to the life of the author However, copyright does not extend to functional works or ideas. 11 This prinrecordings and computer software. There is, in fact, no express limit on what 'Copyright' is granted to authors and artists to protect expressive works third parties. 'neighboring rights' in European law, but as a consequence of more recent

copyright, and what the economic value of that expression is. While movie to measure how much creative expression is gained (or lost) as a result of not easy to assess the economic effects of copyright protection. It is difficult artists to create and disseminate their works. 12 As with other forms of IP, it is Copyright is intended to benefit the public by encouraging authors and

See US Federal Trade Commission (2003), at 6-7

Some jurisdictions impose limitations on the use of single colors as trade

See discussion by the US Supreme Court of economic policies underlying trademark protection in *Qualitex v. Jacobson*, 514 US 159 (1995).

See McCarthy (2005), at §§2.17-2.30. See generally Feist Publications v. Rural Telephone Service, 499 US 340

typically do not reveal the extent to which the claimed losses - which usually as a result of inadequate enforcement of copyright protection, 13 the figures tion was on music producers because of difficulties assessing the extent to difficulty estimating what the effect of nonenforcement of copyright protecproducers and an online file-sharing service, economists had considerable benefit to consumers of unauthorized copies, or of the economic gains/benerefer to lost opportunity costs - should be offset by the economic and social and music producing companies routinely offer data regarding losses suffered increased artist exposure and consequent CD sales. 15 which losses from uncompensated file-sharing were offset by gains from fits to 'pirates'. 14 In the well-known Napster court battle between music

### Design protection

traditional forms of IP, jurisdictions such as the European Union have estabenforcement uncertainty. To overcome problems with design protection by offer protection only for nonfunctional design, and this aspect also creates a particular enterprise. However, as with copyright, trademark and trade dress or shape of a product or its packaging may be distinctive and associated with enforcement stage. Trademark and trade dress also protect design. The design designs include potentially functional elements, resulting in uncertainty at the expressive works and in principle is suitable for design protection, but many ing protection is time-consuming and costly. Copyright protection covers However, design patenting has a number of drawbacks, including that securdesign. In a number of jurisdictions, this led to the creation of a separate a useful or functional invention. It is not suited to nonfunctional aesthetic right, trademark and trade dress, and sui generis registration systems. The lished design registration systems with somewhat more flexible standards than lectual property law. The traditional 'utility patent' is granted with respect to Designs are covered by various forms of IPR, including design patent, copy-'design patent' specifically granted to nonfunctional product elements protection of non-utilitarian designs has long been a problematic area for intelthose associated with the traditional IPRs

or clothing industry. In this sector consumer preferences change very rapidly sion on whether automobile body parts were covered. 16 components from design protection and put off for future negotiation a deciand motor parts. In its 2001 Design Regulation, the EC excluded engine protection is the treatment of automobile spare parts, including body panels and function. For example, the most controversial issue in European design ated with design protection arise when industries blur the line between form examination or publication requirements. The major economic issues associthis and obligates Members not to impede the grant of protection by costly be particularly helpful to the industry. The TRIPS Agreement acknowledges and an expensive time-consuming process for securing protection would not One of the industries most concerned with design protection is the textile

### Geographical indication

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of production methods. Many Latin American countries protect 'appellations administered by the Treasury Department. The European Union protects them trademarks, as well as by a special labeling system for wines and spirits jurisdictions. The United States protects them by collective and certification name of a region in France known for producing quality sparkling wines by a ciated with the place.17 The classic illustrative GI is 'Champagne', i.e. the a place based on the quality or characteristics of the product or goodwill asso-Geographical indications (or GIs) are identifiers that associate a product with of origin' separately from trademarks. In addition, geographical indications by special registration systems, which typically include elaborate monitoring specific method. GIs are protected in a variety of ways in different national are also protected by common and civil law unfair competition regimes.

among others. The EU is a high-cost producer of specialized agricultural prodlevel of GI protection for agricultural products other than wines and spirits ers, on one hand, or are producers of specialized niche products, on the other tion. Whether other countries support one or the other 'camp' in this GIs debate concerned about potential market access restrictions from stronger GI protec-United States is a low-cost producer of bulk agricultural products and is ucts and is seeking higher prices for those products based on GI protection. The (which already enjoy high protection), but is resisted by the United States. largely depends on whether they are efficient large-scale agricultural produc-GIs are controversial. The EU has been pressing at the WTO to increase the

index.php?PHPSESSID=4646c4dfd4ea4de24988b5b9d47a3d02. Laws?', May 16, 2005, available at http://www.cecc.gov/pages/roundtables/051605. Zimmerman at Congressional-Executive Commission on China, Roundtable on 'Intellectual Property Protection as Economic Policy: Will China Ever Enforce its IP See, for example, presentations by C.K. Chow, Eric Smith and James M.

welfare effects'. They are concerned with how gains are allocated, i.e., their profitability Of course, music and film producers are not concerned with 'global economic

A&M Records v. Napster, 114 F. Supp. 2d 896 (ND Cal. 2000), subsequent history in A&M Records v. Napster, 239 F.3d 1004(9th Cir. 2001).

designs, at recitals 12-13. Council Regulation (EC) No. 6/2002 of 12 December 2001 on Community

merely identifies the place where a good is produced. The latter is not intended to denote characteristics A geographical indication is distinguished from a 'mark of origin' which

# Protection of layout design of integrated circuits

tion were developed. Such systems can be given effect either through regisunclear whether such mask works could be protected by copyright (since they dimensional maps or 'mask works' that are used to direct sophisticated equipbased on sui generis IC layout-design protection, but it is the subject of TRIPS tration or automatic protection. There has been little enforcement activity innovations in IC design. Sui generis (or unique) systems of IC lay out protecperform a function), and patent protection is often unsuitable to incremental ment that etches circuits on semiconductor materials. In the 1980s, it was Agreement rules Integrated circuits (or semiconductors) are produced on the basis of three-

## Protection of undisclosed information

purposes, requiring protection against 'unfair commercial use' agricultural chemical products that is submitted for government regulatory undisclosed data with respect to new chemical entities in pharmaceutical and remains secret. The TRIPS Agreement specifically requires protection of Trade secret protection generally lasts as long as the relevant information in a variety of ways, including by specific statute or by unfair competition law. sively) synonymous with 'trade secret' protection. Such protection is provided protect it. Protection of undisclosed information is generally (but not excluable, undisclosed and the business claiming rights takes reasonable steps to Undisclosed information is generally protectable if it is commercially valu-

approval and brought to market. (or 'generic' versions of 'originator' products) can be granted regulatory because the extent of protection helps to determine the speed at which copies purposes in the pharmaceutical and agricultural sector is highly controversial products or services. The scope of protection of data submitted for regulatory mation which is in the public domain as a condition to providing necessary pally when it is abused, such as when businesses demand payment for inforfrom an economic standpoint. Trade secret protection is controversial princiinformation encourages competition and is generally thought to be healthy provide advantages over competitors. 18 Allowing businesses to protect such tion processes, customer lists, recipes and other valuable information that Trade secret protection enables businesses to develop and maintain produc-

## Multilateral regulation of IP

The early multilateral regulatory system

concluded in 1886. The Paris Convention established rules with respect to eral regulation of economic activity were directed at intellectual property. The As noted in the introduction, some of the earliest efforts toward the multilat-Berne Convention addressed copyright. wide variations in the way patents were regulated in different countries. The law. However, these efforts were unsuccessful owing, among other things, to Convention, proposals were made to create harmonized international patent patents, trademarks and unfair competition. During negotiation of the Paris Paris Convention was concluded in 1883 and the Berne Convention was

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countries. This rule reflects the fact that governments are distrustful of the does not affect the validity of patents on the same invention in other Paris marks in other Paris Convention countries. So, for example, if a court in one cants a period in which they can file abroad without fear of pre-emption. A the basis of nationality. 'Right of priority' allows patent and trademark applimark rights within the national territory should not be discriminated against on equivalently with national applicants, and foreign holders of patent or tradecontext, it means that foreign patent and trademark applicants must be treated is a principle well-known to trade lawyers. In the patent and trademark treatment, right of priority and independence of patents. 'National treatment possible motives of other governments in acting against their inventors. Paris country determines that a patent is invalid and orders it canceled, this Convention country will not affect the status of equivalent patents or tradeacts taken by authorities with respect to a patent or trademark in one Paris ity period is six months. The principle of 'independence of patents' means that for the same invention) will not have adverse effect. For trademarks the prior-(such as the publication of new 'art', or the third-party filing of an application During this 'priority period', acts which might otherwise defeat patentability following its first filing to file within all other Paris Convention countries. patent applicant in any Paris Convention country has a period of one year The Paris Convention establishes three basic principles. These are national

provides for recourse to the International Court of Justice). In addition, the and it was perceived as having a weak dispute settlement mechanism (which ing it. It does not prescribe subject matter coverage, it does not set a minimum Paris Convention does not define a patent or what criteria are used for grantholders, the Paris Convention was most notable for what it does not do. The Paris Convention includes liberal rules on compulsory licensing of patents. (or maximum) term of a patent, it does not define the rights of patent holders, By the late 1970s, from the standpoint of industrialized country patent

The Berne Convention is a more complete legal instrument. It very broadly

See discussion of economic policies underlying trade secret protection in *Kewanee Oil v. Bicron*, 416 US 470 (1974).

to copyright protection. work, and precludes countries from making registration or notice a condition that copyright is established automatically on the creation of an expressive prescribes rights that are accorded to copyright holders. In addition, it provides term of copyright (generally, the life of the author plus 50 years) and it defines the subject matter scope of copyright protection, it sets a minimum

the Paris Convention. and it employs the same arguably weak enforcement mechanism (the ICJ) as such as performances (which are addressed by other international agreements) the Berne Convention are that it does not cover so-called 'neighboring rights' From the standpoint of the expressive industries, the major drawbacks of

services, generated demands for substantial changes to the international intelthe increasing importance of the intellectual property component of goods and lectual property system. Perceived weaknesses in the Paris and Berne Conventions, combined with

## From WIPO to the GATT and WTO

countries. 19 These concerns were spread across various industry sectors isfied with the protection given to their innovations. right piracy. Pharmaceutical and agricultural chemical producers were dissat Recording companies and film studios were increasingly anxious about copy Makers of 'brand name' goods were concerned over trademark counterfeiting what they considered an inadequate attention to the protection of their intel-By the late 1970s, industrialists in the United States had grown concerned with lectual property assets, particularly in developing and newly industrializing

oping countries. It advocated control by developing countries over their own emphasized the imbalance in economic welfare between developed and develthe United Nations Conference on Trade and Development (UNCTAD), and movement was centered in the Group of 77 and in multilateral bodies such as countries in favor of a 'New International Economic Order' (NIEO). That protection of IP, such as by providing more flexible rules for the compulsory remedy imbalances in development. The NIEO sought at WIPO to relax resources, and demanded transfer of technology from North to South to licensing of patents. The concern of industry coincided with a movement among developing

and values. In negotiations for revision to the Paris Convention, the United In the mid-1980s WIPO was affected by a fundamental clash of interests

rights (IPRs). Developing countries demanded more flexible rules. The negoon the subject of 'Trade-Related Aspects of Intellectual Property Rights' or as compared to WIPO. Thus was born the GATT Uruguay Round negotiations exports to developed country markets for, among others, their agriculture and tiations failed, and as a consequence the United States, EC and Japan shifted Community and Japan, demanded stronger protection of intellectual property States and other developed countries, including those of the European textile products. Developed countries had much greater leverage at the GATT focus to the GATT. Developing countries depended on GATT rules for

sion. They were not persuaded that such protection would provide them with protection could, of course, choose to do this outside the GATT. their 'rent payments' to the developed countries for technology and expreswould have negative consequences, at least in the short term, by increasing believed that agreeing to higher standards of IPRs protection at the GATT Uruguay Round. Developing countries, led by Argentina, Brazil and India, Developing countries with an interest in adopting higher standards of IP 'dynamic' innovation benefits that would offset increased rent outflows. The TRIPS negotiations were among the most controversial aspects of the

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of which was of considerable interest to developing countries. On the stick to help obtain concessions from the EC on agricultural export subsidies, each objectives on TRIPS. On the carrot side, it offered to reduce textile quotas and the General Agreement on Trade in Services). one of the three pillars of the Uruguay Round (along with the GATT 1994 and Trade-Related Aspects of Intellectual Property Rights or TRIPS Agreement as at the GATT. Developing countries reluctantly agreed to the Agreement on tion, making clear that it would not be satisfied to continue with the status quo trade sanctions on countries that failed to meet US standards of IPRs protecside, it used its domestic Special Section 301 authority to threaten and impose The United States used a 'carrot and stick' approach to accomplishing its

responsibility for regulation of the international IPRs system.<sup>20</sup> While the rates the WTO dispute settlement system, allowing for trade-based enforcedistinction between the two, however, is that the TRIPS Agreement incorpotionship between the rules and authority of the WTO and WIPO. A major WIPO-administered agreements, there is no well-defined hierarchy or relathe new WTO created a situation in which two multilateral institutions share ment of its rules. Several of the WIPO Conventions permit recourse to the TRIPS Agreement, as discussed below, incorporates the provisions of various The entry into force of the TRIPS Agreement on January 1, 1995 as part of

On the background of the TRIPS Agreement and the transition from WIPO to the GATT and WTO, see generally, Abbott (1989), and Abbott (1997a, 1997b). On the political dimension, see Sell (2003)

<sup>20</sup> See Abbott (2000a)

ICJ on the basis of such a convention. International Court of Justice (ICJ), but no case has been brought before the

### The TRIPS Agreement

sions. The second part incorporates the substantive rules applicable to different forms of IP. The third part sets out enforcement obligations of WTO and between the TRIPS Agreement and certain WIPO Conventions. It part defines the relationship between the TRIPS Agreement and national law tional arrangements, and the seventh part institutional matters protection. The fifth part concerns dispute settlement, the sixth part transi-Members. The fourth part addresses the acquisition and maintenance of includes the core national and most favored nation (MFN) treatment provi-The TRIPS Agreement consists of a preamble and seven (7) parts. <sup>21</sup> The first

ment and MFN as fundamental principles of the TRIPS Agreement.<sup>24</sup> common feature of international IP agreements, including WIPO Conventions sary in the multilateral context. The Appellate Body has identified national treat nationals of its treaty partners, and other countries began to see MFN as neceswhich appeared to give rights to US nationals that were not enjoyed by the However, the United States in the early 1990s negotiated some agreements Thus, national treatment would be an adequate standard for all treaty partners. foreigners IP privileges more extensive than it granted to its own nationals. ments largely because it did not appear likely that a country would grant to any Prior to the TRIPS Agreement, MFN was not included in international IP agreeties granted to nationals of one Member to nationals of all other Members.<sup>23</sup> provision obligates each Member to extend the same IP privileges and immunipredating the TRIPS Agreement. The most favored nation treatment (MFN) its own nationals with respect to the protection of IP.22 National treatment is a Member to treat nationals of other Members on at least as favorable a basis as The national treatment provision of the TRIPS Agreement obligates each

respect to the exhaustion of rights.<sup>25</sup> The point at which IPRs are 'exhausted' The TRIPS Agreement left each Member to decide on its own policy with

adopted by each country determines whether goods first placed on the market cally referred to as the 'parallel imports' issue because the rule of exhaustion or services in commerce. 26 From an international trade standpoint, this is typiunder a 'parallel' IPR outside the country may be imported notwithstanding determines when the holders of rights cease to control the movement of goods the presence of an IPR within the country.

product was first placed on the market in India. may not block the importation because its rights were exhausted when the where there is a local patent, it may be imported into South Africa where the of international exhaustion of patent rights. If a product is first sold in India on the market anywhere in the world. Assume that South Africa adopts a rule of the IPR holder are exhausted when the good or service is first sold or placed country.<sup>27</sup> When a country adopts a rule of international exhaustion, the rights ent exhaustion rules may be adopted with respect to different IPRs by the same patent holder also controls a parallel patent. The patent holder for South Africa adopt, including national, regional and international exhaustion. And, differ-There are several alternative approaches to exhaustion that countries may

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example, the European Union has adopted an intra-union exhaustion doctrine when the good or service is placed on the market within the region. So, for any other EU country. outside the EU. So, while an IPR-protected product placed on the market in country. However, this rule does not extend to goods first placed on the market blocked by an economically linked holder of a parallel IPR in any other EU It provides that goods first placed on the market anywhere in the EU under an placed on the market in India may not be parallel imported into Germany or France may be parallel imported into Germany, an IPR-protected product IPR may be imported into any other EU country. The importation may not be Under a regional exhaustion approach, the holder's rights are exhausted

market within that country, the rights of IPRs holders are exhausted. Resales country. A country may thus adopt a rule that when products are placed on the goods or services are placed on the market within the territory of the subject block the importation of products first placed on the market outside the counwithin the country may not be prevented. But holders of parallel IPRs may Under a national exhaustion approach, exhaustion takes place only when

The rule of exhaustion has received quite a bit of attention in the case of

at hppt://www.iprsonline.org. article basis, including its negotiating history, see UNCTAD/ICTSD (2005), available For a complete technical analysis of the TRIPS Agreement on an article by

Article 3, TRIPS Agreement.

Article 4, id.

WT/DS176 ('US - Havana Club'). See United States - Section 211 Omnibus Appropriations Act of 1998.

Article 6, TRIPS Agreement.

See Abbott (1998).

different exhaustion rules for patents and trademarks, with the rule on copyright yet to be fully defined by the Supreme Court. This is, for example, the case with respect to the United States which has

optimal pricing strategies.30 pharmaceutical companies are using this argument as a way to prevent paralentially priced products are exported and imported. They suggest that the differential pricing because national governments can control whether differ-Others argue that exhaustion rules do not prevent companies from using sold cheaply in developing countries and export them to wealthier markets. and further argue that rules allowing parallel importation will prevent them countries at low prices while charging higher prices in developed countries. ceutical companies should be able to sell their products to poorer developing called 'differential' or 'equity' pricing strategies. 28 Some argue that pharma lel importation which the companies oppose because it interferes with their from using such strategies.<sup>29</sup> They contend that arbitragers will buy drugs The parallel imports debate has another dimension with respect to so-

own policies with respect to exhaustion.31 discussed later on, confirmed the right of WTO Members to decide on their The Doha Declaration on the TRIPS Agreement and Public Health,

of encouraging the transfer of technology to promote development, 32 and competitive practices.33 Agreement to protect public health and nutrition, as well as to control antirecognizing the right of Members to adopt measures consistent with the The TRIPS Agreement also includes principles confirming the importance

WTO Members are required to give effect to the TRIPS Agreement in

national law, but the agreement leaves to each Member the precise means for

### The substantive rules

concept of IP as broadly defined, but rather it applies to subject matter that is example, trade names). Also, in some areas discretion on the scope of subject refer to subject matter not expressly addressed in the TRIPS Agreement (for because the Agreement incorporates provisions of WIPO Conventions that addressed by the Agreement. Agreement still does not apply to all subject matter that might come within the matter is left to Members.36 Taking this shading into account, the TRIPS being subject to its rules. 35 The boundary lines of this identification are shaded The TRIPS Agreement identifies certain intellectual property subject matter as

trademark, geographical indication, industrial design, patent, layout design of integrated circuit and protection of undisclosed information The broad categories of IP addressed by the Agreement are copyright,

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### Copyright

developed countries.38 coverage. The term of protection prescribed by the Berne Convention at the Convention includes a broad and flexible scope of copyright subject matter the Berne Convention which are incorporated by reference.<sup>37</sup> The Berne For copyright, the TRIPS Agreement largely relies on the substantive rules of computer software and compilations of data (based on the creative activity time of adoption of the TRIPS Agreement was consistent with that of most The TRIPS Agreement adds rules clarifying that

<sup>28</sup> See discussion and references in Abbott (2005a)

See, for example, Danzon and Towse(2005), at 438-52

See Abbott (2005a).

Health, Ministerial Conference, Declaration on the TRIPS Agreement and Public adopted November 14, 2001, WT/MIN(01)/DEC/2, November 20, 2001, para.

the transfer of technology, see Correa (2005). Article 7, TRIPS Agreement. For a discussion of TRIPS Agreement rules and

Article 8, id.

atively precise, there is no strong reason why a Member could not choose to give it Agreement requirements through the adoption of amendments to IPRs legislation. direct effect, though it appears that most countries have elected to implement TRIPS 34 There is no explicit statement as to whether the agreement is intended to have 'self-executing' or 'direct effect' in national law. Since the substantive rules are compar-

ity to choose the method of implementation within its own legal system and practice, signaling a certain level of flexibility.

35 Apricla 1.7 Torre A ----In Article 1.1, the TRIPS Agreement recognizes that each Member has the flexibil-

Article 1.2, TRIPS Agreement.

protection are the subject of some discretion on the part of Members.

37 Article 0 1 TRIDE A manner: discussed infra. The AB noted that obligations with respect to the scope of patent The effect of the cross-reference to the Paris Convention in the coverage of trade names was the subject of an Appellate Body decision, US – Havana Club, Article 9.1, TRIPS Agreement.

the author plus 70 years. the United States and European Union have extended the term of copyright to life of 50 years. Since the TRIPS Agreement was adopted, a number of countries including The Berne Convention generally provides a term of the life of the author plus

exception provisions, for example, with respect to fair use.42 provisions of the Berne Convention, the TRIPS Agreement includes other corresponding provision in the Berne Convention. 41 By incorporating relevant of broadcast organizations. The Agreement sets out a general provision on unfixed performances, 40 and to certain rights of producers of phonograms and Agreement also extends copyright to certain rights of performers in their involved in their assembly) are copyrightable subject matter. 39 The TRIPS 'limitations and exceptions' to copyright, which is largely coextensive with a

marks.<sup>49</sup> The rules also include exceptions for fair use of marks.<sup>50</sup> expected. 48 The Agreement limits conditions that can be attached to the use of or services where a connection with the trademark holder would be of the public', and that rights in well-known marks extend to dissimilar goods rights with regard to so-called 'well known' marks, clarifying that the wellof trademark subject matter.<sup>43</sup> The TRIPS Agreement also makes service known character of a mark is determined by reference to the 'relevant sector familiar to common law and civil lawyers. The TRIPS Agreement extends marks in a way that would result in a likelihood of confusion,<sup>47</sup> a standard tration. 45 A minimum trademark renewal term of seven years is established. 46 the mark, subject to applicable requirements with respect to renewal of regis-Trademark protection extends as long as the trademark holder continues to use marks subject to an equivalent level of protection with trademarks on goods. 44 define what a trademark is. The TRIPS Agreement provides a broad definition The Paris Convention includes rules governing trademarks, but it does not Trademark holders are accorded the right to prevent third parties from using

protection in the TRIPS Agreement.<sup>51</sup> At the time of its adoption, trademark trademarks are essentially of indefinite duration; the owner does not lose registration was common throughout the world. Under the TRIPS Agreement protection for as long as it continues using its trademark on its goods or There was relatively little controversy about incorporation of trademark

### Geographical indication

spirits, including a provision calling for negotiations to establish a register of work for future negotiations (which as of late 2006 is ongoing). However, the product with a place based on the quality or characteristics of the product or geographical indications for wines for countries participating in the system. 54 TRIPS Agreement provides additional specificity on the subject of wines and limited guidance as to how protection is to be afforded, leaving much of the GIs based on rules derived from WIPO Conventions, 53 but provides relatively associated goodwill.52 The TRIPS Agreement obligates Members to protect As noted earlier, a geographical indication is an identifier that associates a

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### Industrial design

because of the large number of designs that producers seek to protect and the often short life cycle of such designs.<sup>57</sup> costs for the protection of textile designs do not unreasonably interfere with tion systems. The Agreement obligates Members to ensure that procedures and right, trademark and trade dress, design patent and sui generis design registra-The TRIPS Agreement obligates Members to provide 10 years of protection to industrial designs, but does not prescribe a specific way to accomplish this. 55 the opportunities to obtain protection. 56 Textile designs get special mention The methods for protecting industrial design have traditionally included copy-

<sup>39</sup> Article 10, TRIPS Agreement

the right to prevent the recording of their performances. Prior to the TRIPS Agreement, performers in the United States did not have

Article 13, TRIPS Agreement, Article 9(2), Berne Convention

See also Articles 10 and 10bis, Berne Convention. Article 15.1, TRIPS Agreement.

civil law countries, trademarks are based solely on registration. The TRIPS Agreement does not affect this distinction. common law rights in trademarks so that registration is not always required. For most The United States and the Commonwealth countries generally allow for

Article 18, TRIPS Agreement

Article 16.1, id.

Article 16.2-3, id.

Article 20, id. Article 17, id.

companies promote their goods. There is a limited social cost to allowing a company being able to associate products with producers.

52 Article 22.1 i.i. to reserve a particular brand name for its own use, and a benefit to consumers fron mulated knowledge about products and producers, and provide the vehicle by which Trademarks help consumers make purchasing decisions based on their accu-

Article 22.1, *id.*Article 22.2, *id.*Article 23, *id.*Article 25, *id.*Article 25, *id.* 

each year and without a firm basis for predicting the success of any particular design consuming the result may not be useful Clothing fashions change rapidly, and if procedures for securing protection are time A clothing producer may put a large number of new designs into production

subject of an important panel decision to be discussed later. 66

legitimate interests of third parties. This general exception provision is the patent or the legitimate interests of patent holders, taking into account the tions that do not unreasonably conflict with the normal exploitation of the

compulsory licensing of patents. subject matter scope of patent protection, the criteria of patentability or the granted, and prescribes national treatment. It does not, however, define the about by the TRIPS Agreement were in the field of patents. The Paris term of patent protection. It includes a limited set of rules applicable to the Convention provides rules regarding the mechanisms by which patents are The most significant changes to the international IP regulatory system brough

application.61 minimum 20-year term of protection counted from the filing of the patent ucts are imported or locally produced. 60 The TRIPS Agreement prescribes a novelty, inventive step and capability of industrial application. 58 It also nation based on place of invention, field of technology, and whether prodprovides that patents rights shall be available and enjoyed without discrimithe basic rules of developed country patent systems. The Agreement ucts and processes in all fields of technology on the basis of the criteria of provides for sufficiency of disclosure. <sup>59</sup> Taken together, these criteria reflect The TRIPS Agreement provides that patents should be available for prod-

for animals and plants does not extend to non-biological and microbiological may be through patent or a sui generis form of protection. Also, the exclusion procedures. 62 It permits Members to refuse patenting of animals and plants, such as for the protection of public order and for diagnostic or therapeutic but requires that some form of plant variety protection be provided. 63 This The TRIPS Agreement allows for certain exclusions from patentability.

which compulsory licenses may be granted, and it provides for a waiver of exceptions to patent rights. 65 This allows a Member to adopt limited excepfor public non-commercial use. In addition to the provision on compulsory procedural prerequisites in cases of national emergency, extreme urgency, or the granting of such licenses.<sup>64</sup> However, it does not limit the grounds upon in the Paris Convention, prescribing substantive and procedural conditions for licensing, the TRIPS Agreement incorporates a general provision concerning The TRIPS Agreement expands upon the compulsory licensing rules found

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## Layout design of integrated circuit

and addresses concerns that had been raised regarding provisions of the treaty rules of the IPIC Treaty, but modifies them to extend the term of protection sions require that protection for 'original' mask works be provided for a dealing with third-party purchasers with notice.72 TRIPS Agreement proviinto force. 71 The TRIPS Agreement incorporates most of the substantive was negotiated and signed under the auspices of WIPO, but has not entered The Treaty on Intellectual Property in Respect of Integrated Circuits (IPIC)

2 2 2 2

Canada - Patent Protection of Pharmaceutical Products, WT/DS114, 17

a matter largely of historical interest once the complex processing situation in India is completed.70 on January 1, 2005, the complex subject of mailbox applications will become TRIPS, and is discussed infra. 69 Because the 10-year transition period expired rather complex system was the subject of the first AB decision concerning be limited based on the original filing date of the mailbox application. 68 This became available. If and when a patent was eventually granted the term would during the transition period and preserve them for review when protection to provide patent protection for subject matter areas not previously covered. 67 tries. Developing countries were granted a 10-year transition period in which to patent protection required a major change to the patent laws of many coun-'mailbox' rules required developing Members to accept applications filed In respect of pharmaceutical and agricultural chemical product patents, special The requirement that countries subject inventions in all fields of technology

<sup>55</sup> Article 27, TRIPS Agreement

<sup>60</sup> 

<sup>5</sup> 

Article 29, id.
Article 27, id.
Article 33, id.
Article 27.2–3(a), id.
Article 27.3(b), id.
Article 31, id.
Article 30, id.

March 2000 ('Canada – Generic Pharmaceuticals') 1, 2005, and the extent to which this process generates legal controversy remains to be Products, WT/DS50, 5 September 1997 ('India – Mailbox'). increase the price of medicines. Article 64.4, TRIPS Agreement under patent protection would affect existing generic producers and almost certainly not provide patent protection for pharmaceutical products since bringing such products Article 70.8, TRIPS Agreement.

India – Patent Protection for Pharmaceutical and Agricultural Chemical The change would have a particularly significant effect in countries which did India began to process a large number of mailbox applications as of January

This is largely based on objections of the United States and Japan regarding

Article 37, TRIPS Agreement

anywhere in the world.<sup>73</sup> Members need not adopt registration systems.<sup>74</sup> minimum of 10 years following registration or first commercial exploitation

## Protection of undisclosed information

protection is capable of lasting indefinitely, provided that the information mation being obtained 'contrary to honest commercial practices'. Trade secret steps to keep it secret. Members are to provide protection against such inforcommercial value because it is secret, and if the holder has taken reasonable known in its precise configuration by those in the relevant sector, if it has information, generally referred to in common law countries as 'trade secrets' protectable subject matter. 75 Information will be protected if it is not generally Convention addressing unfair competition and by broadly defining the The Agreement accomplishes this by incorporating a provision of the Paris The TRIPS Agreement requires Members to protect confidential commercial remains confidential.

submitted to regulatory authorities as a condition for obtaining approval for provided against 'unfair commercial use' of data. Members dispute this, pointing to the flexible requirement that protection be fixed periods of 'market exclusivity' for innovator products, while many other public. This is one of the most controversial provisions of the TRIPS data are to be protected against disclosure except as necessary to protect the ties'. 76 Protection is to be provided against 'unfair commercial use', and the pharmaceutical or agricultural chemical products using 'new chemical enti-Agreement includes specific rules addressing undisclosed test or other data Agreement. The United States asserts that it requires Members to provide In addition to the general provisions concerning trade secrets, the TRIPS

### Competition

appear that IPRs and competition law are fundamentally in conflict. However, marketing products under particular conditions. Competition (or antitrust) their general effect is to provide a basis for excluding third parties from There is a very close relationship between laws regulating IP and laws regu-IPRs may promote competition by fostering innovation and creative work laws are intended to assure fair access to markets. On a static basis, it may lating competition.<sup>77</sup> Although IPRs differ markedly in their characteristics.

sition of excessively anticompetitive conditions on licensees. is necessary to be vigilant that such rights not be abused, such as by the impobecause IPRs provide a legal basis to exclude third parties from the market, it participants. In a dynamic sense IPRs may be pro-competitive. Nonetheless thereby providing new products and services that challenge existing market

cooperation. In addition, rules on compulsory licensing specially attend to measures taken to address anticompetitive practices.<sup>80</sup> Also, a Member's exhaustion doctrine effectively addresses conditions of competition, and the abuses of IPRs<sup>78</sup> and a more specific provision addressing restrictive condiis inherently a pro-competitive provision. rule allowing Members to adopt their own policies with respect to exhaustion tions in licensing agreements, 79 as well as encouraging intergovernmental provision recognizing the right of Members to adopt measures to control of Members to police anticompetitive abuse of IPRs. These include a general The TRIPS Agreement includes several provisions that recognize the right

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### Enforcement obligations

regime under which private IPRs holders are responsible for taking steps to enforce their rights. With limited exception, Members are not obligated to important to note, however, that the TRIPS Agreement generally establishes a Members are expected to make available for the enforcement of IPRs. 81 It is A significant part of the TRIPS Agreement is devoted to the measures 'police' the private interests of IPRs holders. 82

sions are taken by administrators, they should be subject to review by judicial for the enforcement of IPRs, including provision for remedies to prevent authority. further infringement. 83 The procedures must be fair and equitable. When deci-The TRIPS Agreement requires Members to establish effective procedures

to present evidence.85 procedures to enforce their rights. 84 Parties should have adequate opportunity Members are obligated to provide IPRs holders with access to civil judicial

Article 38, id.

<sup>75</sup> Article 38.2, id.

Article 39.1-2, id.

Article 39.3, TRIPS Agreement.

<sup>76</sup> See generally, Public Policy and Global Technological Integration, supra note

Article 8.2, TRIPS Agreement

Article 40, id.

See, inter alia, Article 31(k), id

procedures and penalties for trademark counterfeiting and copyright piracy on a commercial scale, and this may be viewed as a policing obligation.

83 Apricia 41 id Article 61, TRIPS Agreement, requires Members to provide for criminal Part III, id.

Article 41, id.

Article 42, id.

Articles 42-3, id.

should be subject to remedial action.88 authority to order the destruction of infringing goods. 87 Abuse of legal process Damages and injunctions should be available.86 Judges should have the

Procedures for provisional measures to prevent infringement and the destruction of evidence should be available. 89 When provisional measures are an opportunity for a prompt review. granted prior to hearing from an alleged infringer, the accused should be given

shall be notified, and a hearing on the suspension must be convened Adequate security may be required to protect the importer. 91 The importer promptly. 92 The accuser may be required to indemnify the importer for wrong make available procedures for the suspension of entry into commerce.90 notice to customs authorities of suspected shipments of infringing goods, and Members must provide procedures under which IPRs holders may provide

for willful trademark infringement and copyright piracy on a commercial Members are required to make available criminal procedures and penalties

### Acquisition and maintenance

The TRIPS Agreement includes a provision recognizing that Members may adopt procedures and formalities for the grant and maintenance of IPRs. 95 subject to judicial review. determinations regarding the grant and maintenance of rights should be IPRs do not unreasonably curtail the period of protection. Final administrative Members must, however, assure that procedures with respect to the grant of

### Dispute settlement

aspect to TRIPS dispute settlement that remains in effect in 2006. During the Dispute Settlement Understanding (DSU).96 There is, however, one unique Dispute settlement under the TRIPS Agreement is undertaken pursuant to the Uruguay Round, Members could not agree on whether so-called 'nonful detention of goods.93

protection of IP. 100

TRIPS decisions under the DSU are discussed below

access' benefits a Member might have expected to obtain as a result of the Agreement since there is considerable uncertainty as to what kind of 'marke

Non-violation complaints might prove quite problematic under the TRIPS

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until the Ministerial Conference next following the Hong Kong Ministerial

(which took place at the end of 2005).

with no action having been taken. At the Doha and subsequent Ministerials

(Cancun and Hong Kong), Members agreed to extend the moratorium at least

action. Any agreement on scope and modalities, or on extension of the mora-

Members were to negotiate on the 'scope and modalities' of such causes of five-year moratorium on such non-violation complaints, 98 during which time the TRIPS Agreement. 97 A compromise was adopted which provided for a

violation nullification or impairment' complaints should be permitted under

torium, would need to be adopted by consensus. 99 The five-year period passed

Agreement. There are different types of transitional arrangements under the TRIPS

with TRIPS standards. 101 Because developing and least developed Members cal or agricultural chemical patent protection was extended, Members were January 1, 2005). 103 As noted earlier, if the period for providing pharmaceutiprotection, developing Members could take an additional five years (to However, for patent subject matter areas which were not previously accorded periods. In general, developing countries (and Members in transition) had five difficulties in conforming to these standards, they were given longer transition required to put in place a 'mailbox' system, and provide 'exclusive marketing years (until January 1, 2000) to conform to the TRIPS Agreement. 102 (as well as Members in transition to market economy) would face adjustment Developed countries had one year to bring their IP systems into conformity

Article 65.4.

that deprives the complaining Member of benefits it expected to receive when it has not acted inconsistently with an agreement, the other Member has acted in a way

In a non-violation complaint, a Member alleges that while another Member

Transitional arrangements

Articles 44-5, id

Article 46, id.
Article 48, id.
Article 50, id.
Article 51, id.
Article 53, id.
Article 54, id.
Article 56, id.
Article 61, id.
Article 62, id.

<sup>96</sup> 96 97 98 98

Article 64.1, id

Article 65.2, TRIPS Agreement. National and MFN treatment provisions took effect for all Members after one year. Article 65.1, *id.* entered into the agreement. See Abbott (2000b).

98 Article 64.2 TRIPS Agreement Article 64.3, id. Article 64.2, TRIPS Agreement See Abbott (2003).

the transition period. 105 countries could not reduce levels of protection below TRIPS standards during rights' for products meeting certain conditions. 104 In all cases, developing

products, developing countries lost the flexibility to reduce levels of protection already in force.  $^{\rm 108}$ extended until July 1, 2013. However, other than in respect of pharmaceutical December 2005 the general transition period for least developed countries was not enforce patent and data rights that may already have been granted. 107 In January 1, 2016) to provide pharmaceutical patent or data protection, and need decisions, least developed countries have an additional 10-year period (until Declaration on the TRIPS Agreement and Public Health, and implementing during the transition for least developed countries. Pursuant to the Doha TRIPS standards. 106 There was no rule against reducing levels of protection Least developed countries in general had until January 1, 2006 to apply

benefit from TRIPS rules. There was no general requirement of retroactive was capable of protection at the time the agreement became effective, it would at the time the Agreement entered into force. 109 In general, if subject matter of development, the TRIPS Agreement addressed subject matter that existed In addition to transition arrangements to take into account different levels

### Institutional matters

Members may propose additional areas of negotiation. such as geographical indications and patents for living things. In addition and undertaking further negotiation or review in specific subject matter areas Members, 111 periodically reviewing the operation of the TRIPS Agreement, responsibilities under the TRIPS Agreement, including reviewing the laws of of the TRIPS Agreement. 110 The TRIPS Council has a number of specific Intellectual Property Rights ('TRIPS Council') to oversee the implementation The WTO Agreement establishes the Council for Trade-Related Aspects of

Pursuant to its internal rules of procedure, the TRIPS Council acts only by

General Council which, at least in theory, may act under alternative WTO consensus. 112 If there is not consensus on a matter, it may be referred to the

WTO and WIPO. 114 WIPO.  $^{113}$  A modest cooperation agreement has been concluded between the The TRIPS Council is also responsible for coordinating activities with

## TRIPS dispute settlement decisions

claims have been initiated and withdrawn. Below is a summary of the cases Body under the terms of the TRIPS Agreement. Other dispute settlement There have been a number of cases decided by WTO panels and the Appellate decided so far, and a discussion of one important claim that was withdrawn. 115

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### India – Mailbox (US)

legislation authorizing the granting of exclusive marketing rights (EMRs). called 'mailbox' to receive and preserve patent applications, and to adopt TRIPS Agreement requirements under Articles 70:8 and 70:9 to establish a sothe United States, which alleged that India had failed to adequately implement panel, and subsequently by the Appellate Body. The complaining party was WTO dispute under the TRIPS Agreement that resulted in a decision by a Products, WT/DS50, 5 September 1997 ('India - Mailbox') was the first India - Patent Protection for Pharmaceutical and Agricultural Chemica.

pointed out that non-violation complaints could not yet be brought under the nullification or impairment in formulating its approach to interpretation, and Body said that the Panel had mistakenly applied the doctrine of non-violation ing the implementation by India of a mailbox system that would eliminate the United States and its patent holders had 'legitimate expectations' concernconcerned a difference over jurisprudence with the Panel. The Panel said that preting the TRIPS Agreement was by application of the rules of the Vienna 'any reasonable doubts' concerning the future grant of patents. The Appellate TRIPS Agreement. The Appellate Body said that the proper means for inter The first part of the decision of the Appellate Body in this dispute

<sup>104</sup> Article 70.8, id.

<sup>105</sup> Article 65.5, id.

Article 66.1, id.

Doha Declaration, para. 7.

country interests. This is a problem for least developed countries because most have strict IP laws put in place by colonial powers which do not reflect specific least developed

Article 70, TRIPS Agreement

Article IV:5, WTO Agreement

Article 71.1, TRIPS Agreement

September 1995, Rule 33. Rules of Procedure for Meetings of the Council for TRIPS, IP/C/1, 28

Article 68, id.

The organizations, inter alia, agreed to the creation of a common register of

in International Trade, Investment and Intellectual Property, United Nations, 2003 Conference on Trade and Development (UNCTAD) in Course on Dispute Settlement section of the chapter first appeared in Chapter 3.14, TRIPS - United Nations IP laws, and this has been established at WIPO.

115 For a more complete discussion see Abbott (2004b) The discussion in this

provide a 'sound legal basis' for the treatment of mailbox applications. Agreement, no more, no less. This meant that India would be required to purpose. India was required to comply with the terms of the TRIPS preted based on their express terms and context, in light of their object and Convention on the Law of Treaties, which provides that treaties shall be inter-

provide a sound legal basis for receiving and preserving mailbox applications matter grounds could not be modified by an executive administrative order. the statutory Patents Act requirement to reject a patent application on subject for which patent protection could not be granted, including for pharmaceutical required the patent office to reject applications that concerned subject matter of such an order to the Panel or Appellate Body. The Indian Patents Act means to implement the mailbox requirement. India had not furnished the text tive order allegedly given by the executive to the patent office was an adequate The Appellate Body agreed with the Panel that India had in fact failed to products. There was substantial evidence that under the Indian Constitution, The Appellate Body went on to examine India's claim that an administra-

disagreed on the basis of the express text of the TRIPS Agreement which it could be provided as the circumstances warranted. The Appellate Body qualify for the grant of EMRs, it had no need for legislative authority which tion authorizing the grant of EMRs. India argued that since no party had yet to the entry into force of the agreement. held to require the adoption of legislation authorizing the grant of EMRs from Another aspect of the case involved India's alleged failure to adopt legisla-

ations. The Appellate Body's rejection was based solely on grounds that the outside the Panel's terms of reference. the TRIPS Agreement that India had failed to comply with transparency oblig-Panel had permitted the United States to add a cause of action to its complaint The Appellate Body also rejected a Panel determination under Article 63 of

## Canada - Generic Pharmaceuticals

of the EC's complaint was the generic pharmaceutical sector. The EC claimed March 2000 ('Canada -Generic Pharmaceuticals') involved a complaint with its drug regulatory rules, allowed generic producers to obtain approval for prior to the expiration of a patent term, and that authorized the use of patented provisions of Canadian patent law that allowed the stockpiling of products brought by the European Communities (EC) against Canada alleging that Canada - Patent Protection of Pharmaceutical Products, WT/DS114, 17 and stockpile patented medicines contrary to TRIPS patent rules that the relevant provisions of Canada's Patent Act, when read in connection prior to the expiration of a patent term, violated TRIPS obligations. The focus inventions for the purposes of preparing and pursuing regulatory submissions

Canada conceded that the relevant provision of its Patent Act contravened

rights of patent holders within the scope of that provision. invoked Article 30, asserting that it was providing limited exceptions to the the rights of patent holders under Article 28.1 of the TRIPS Agreement. It

in the patent relation, but include public social interests. holder. The legitimate interests of third parties are not limited to legal interests interests is used to consider the potential economic impact on the patent address the way that patents are ordinarily used. The test of the patent holder's provided to the patent holder. The element of 'normal exploitation' is used to tion' refers to a narrow derogation, with reference to the range of rights the legitimate interests of third parties. In the Panel's view, a 'limited excepunreasonably prejudicing the interests of the patent holder, taking into account unreasonably interfering with the normal exploitation of the patent, and not meaning of the three elements of Article 30; that is, 'limited exception', not The Panel devoted a considerable portion of its decision to interpreting the

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support an Article 30 exception. the Panel did not address the other two elements that must be satisfied to ify as a limited exception under Article 30. Having made this determination, patented products to be made during the patent term. It therefore did not qualciently 'limited' because it potentially allowed an unlimited quantity of The Panel determined that Canada's stockpiling exception was not suffi-

of time during which an invention is subject to regulatory review. uct. Canada does not extend the term of patents to take into account the period such as in the case of marketing approval for a generic pharmaceutical prodinventions during the term of the patent to develop submissions for approval Canada's regulatory review exception allows third parties to use patented

reasonably closely circumscribed. limited because it addressed only a small part of the patent right, and was limited, the Panel determined that Canada's regulatory review exception was Regarding the first criterion under Article 30, that an exception must be

them to this type of exception. that patent rights must be exploited without being subject to limited excepunreasonable interference with the normal exploitation of patents to subject tions, such as use by third parties for regulatory review purposes. It was not an with normal patent exploitation, the Panel found it was not generally accepted Regarding the second criterion, that there is not unreasonable interference

suffered economically because its patent term was effectively reduced by the during which the patent holder awaited marketing approval for its drug. In the patent holder (taking into account third-party interests), the Panel considered EC's view, the failure to provide an extension meant that the patent holder been combined with a 'patent term extension' to take into account the period the EC's argument that Canada's regulatory review exception should have Regarding the third criterion, that there not be unreasonable prejudice to the

compensated because it had to subject its product to regulatory review. dures, and that there was no requirement that the patent holder effectively be of the interests of the patent holder in adopting their regulatory review proce-The Panel rejected the EC contention, finding that governments took account was enabled to begin marketing promptly upon the expiration of the patent period during which it awaited marketing approval, while the generic producer

nology for legitimate purposes. Having made these determinations, the Panel nology does not imply that they may not 'differentiate' among fields of techterm. The fact that Members may not 'discriminate' regarding a field of techrefers to 'discrimination' regarding field of technology, which is a pejorative restricted to a certain kind or class. However, it pointed out that Article 27.1 no language in Article 30 suggesting that exceptions that may be granted are ing that Article 30 exceptions are subject to Article 27.1, even though there is of discriminating with respect to field of technology. The Panel began by holdtion was inconsistent with Article 27.1 of the TRIPS Agreement in the sense since it was, by its terms and application, neutral as to field of technology. found that Canada's patent legislation neither differentiated nor discriminated The Panel finally considered whether Canada's regulatory review excep-

### US - Copyright Exemption

9(2) of the Berne Convention. respect to the broadcast and communication to the public of their works. The US defended its exemptions on the basis of Article 13 of the TRIPS Berne Convention that establish rights in favor of authors and artists with customers without payment of remuneration to copyright holders was TRIPScommercial establishments to provide radio and television entertainment to Agreement, that largely incorporates the exception provision found in Article inconsistent. The EC's claims were based on Articles 11bis and 11 of the United States alleging that exceptions in the US Copyright Act that permitted 2000 ('US - Copyright Exemption') involved a claim by the EC against the United States - Section 110(5) of the US Copyright Act, WT/DS160, 15 June

broadcast to the public through a specified range of equipment. bars and restaurants also of a limited (though larger) size, to receive exemption') allowed general commercial establishments of a limited size, and was not directed to a specific category of establishment. The second ('business the public by a single apparatus of a kind ordinarily used in private homes, and ('homestyle exemption') allowed broadcasts to be received and transmitted to The US copyright exemptions basically covered two situations. The first

exception for 'certain special cases' within the meaning of Article 13 of the commercial significance to copyright holders was too great for this to be TRIPS Agreement. The range of establishments was too large, and the The Panel found that the US business exemption did not fall within the

> right holders. of compensation unreasonably prejudiced the legitimate interests of the copy exemption covered a broad range of US commercial establishments, the lack to bear the burden of furnishing compensation to them. Since the business commercial establishments of a substantial size would reasonably be expected tation of compensation for broadcast to the public of their works, and that Appellate Body. The Panel found that copyright holders had a normal expecthe TRIPS Agreement so as to provide a factually complete record for the went on to complete its analysis of the other exception factors in Article 13 of considered a minor exemption. Although it might have stopped here, the Panel

courts. In respect to the normal exploitation of copyrighted works, the Panel scope, because among other things it had been construed narrowly by US interests of copyright holders were not unreasonably prejudiced. copyright license. On similar grounds, the Panel found that the legitimate in particular since most small shop owners would not be willing to pay for a found that there was a minimal market for single private receiver broadcasts, The Panel found that the 'homestyle exemption' was in fact of limited

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### Canada – Patent Term

that deal with application of the agreement to subject matter that existed prior involved the interpretation of Articles 70.1 and 70.2 of the TRIPS Agreement granted under pre-TRIPS Agreement patent legislation. This decision requirement of Article 33 of the TRIPS Agreement to patents that were Canada for an alleged failure to apply the minimum 20-year patent term to its entry into force. ('Canada - Patent Term') involved a complaint by the United States against Canada - Term of Patent Protection, WT/DS170, 18 September 2000

term, which was excluded under Article 70.1. not require Canada specifically to undertake the act of extending the patent date', referred to patents granted prior to application of the agreement, but dic at the date of application . . . and which is protected in that Member on the said had been granted under an act that applied to patents granted up until 1989 Article 70.2, which establishes obligations regarding 'subject matter existing before the date of application. In Canada's view, the grant of a patent was an 70.1 excluded application of the TRIPS Agreement to 'acts' which occurred (and remained in force when Article 33 became applicable), because Article 'act' that occurred before Article 33 became applicable. Canada argued that Canada argued that it was not required to extend the term of patents that

plain meaning of Articles 70.1 and 70.2. Neither the Panel nor the Appellate (as within Article 70.1), and the general 'existing' nature of the patented Body found Canada's attempt to distinguish the act of setting out a patent term The decision of the Panel and Appellate Body in this case focused on the

patents based on the express language of the TRIPS Agreement. Article 70.2 required the application of Article 33 to the term of existing invention under Article 70.2, persuasive. The Appellate Body found that

US – Havana Club

sistent with TRIPS Agreement national and most favoured nation treatment basic rights of trademark holders under the TRIPS Agreement, and was inconconcerning trademark registration of the Paris Convention, interfered with the States had upheld the validity of the US legislation and its application to the Cuban-French joint venture prior to the EC's initiation of the dispute at the enforce those marks in US courts, and denying permission to register those confiscated by the government of Cuba without compensation the right to WTO. The EC argued that the US legislation was inconsistent with rules Cuban-French joint venture some 40 years later. Federal courts in the United national owners following the revolution, and that became the subject of a ('Havana Club' for rum) that the government of Cuba took from Cuban marks at the US Patent and Trademark Office. The case involved a trademark Agreement inconsistency of US legislation denying holders of trademarks involved a claim by the EC against the United States alleging TRIPS United States - Section 211 Omnibus Appropriations Act of 1998 WT/DS176/AB/R, 2 January 2002 ('US - Havana Club'), WT/DS176

of strong public policy of the forum state. enforcement of trademarks it determines to have been confiscated in violation Body confirmed the right of the United States to refuse registration and not to be the holder of an interest in the subject mark. In sum, the Appellate trademark rights a party might assert, if that party is fairly determined ab initio obligate a Member to permit adjudication of each substantive claim regarding ownership of marks within the boundaries established by the Paris prevent each Member from making its own determination regarding the marks. It found that Articles 15 and 16 of the TRIPS Agreement do not to eliminating Member discretion to apply rules concerning other rights in addressed to accepting trademarks for registration in the same form, and not ation in the Paris Convention Article 6quinquies telle quelle (or 'as is') rule is Convention. It decided that Article 42 regarding procedural rights does not The Appellate Body decided (confirming the Panel's view) that the oblig-

discriminatory aspects of the US legislation could be identified, those aspects fundamental. It rejected the Panel's determination that, although certain minor obligations. It observed that as a matter of WTO law, these obligations are tion of trademarks in regard to national and most favored nation treatment were unlikely to have a practical effect, and so are not WTO-inconsistent. The The Appellate Body analyzed US law relating to Cuba's alleged confisca-

> treatment and MFN obligations. to have effect in practice were nonetheless inconsistent with the US national report (US - Section 337), 116 found that even discriminatory aspects unlikely Appellate Body, in a somewhat strained reliance on an earlier GATT panel

within the subject matter scope of the TRIPS Agreement. The Appellate Body further held, contrary to the Panel, that trade names are

validity to a Cuban-French claim of trademark ownership. in its entirety the authority of the Congress and Executive Branch to deny its decision regarding the confiscated trademark, the Appellate Body affirmed procedural defect in the mechanism adopted by the US Congress to effectuate Although the Appellate Body identified what it considered to be a minor

## EC - Geographical Indications

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EC member states for EC nationals, was inconsistent with the national treat on behalf of private applicants for GIs protection, which was not required from that the EC's requirement that foreign governments make certain certifications TRIPS Agreement and Article III of the GATT 1994. The panel also found claim based on its interpretation of the text of the regulations and the way they obligations and that this assured WTO consistency. The panel rejected this equivalent to that of the EC - a so-called 'material reciprocity' requirement tion. The EC's regulations required as a condition for granting protection that geographical indications discriminated against foreign applicants for protecfound to derogate from national treatment requirements under Article 3 of the had been applied by the EC. The EC's material reciprocity requirement was The EC argued its regulations were qualified by reference to international the home country of a foreign applicant maintain a system of GIs protection March 2005) each brought claims alleging that the EC's system of protecting States (WT/DS174/R, 15 March 2005) and Australia (WT/DS290/R, 15 In European Communities - Protection of Trademarks and Geographical Indications for Agricultural Products and Foodstuffs ('EC - GIs'), the United

The EC regulations permit GIs to be registered notwithstanding prior

incapacity of an import-related patent holder to assert counterclaims in a 337 proceednational treatment obligations. Those found to constitute discrimination (such as the produced and imported goods, and found only a limited number inconsistent with US of differences between rules applicable to patent proceedings involving domestically reliance is strained because the Panel in the US - Section 337 case identified a number Panel Report, United States – Section 337 of the Tariff Act of 1930 ('US – Section 337'), adopted 7 November 1989, BISD 36S/345. The Appellate Body's ing) were matters that in intellectual property rights enforcement had significant conse-

sion of Article 17 of the TRIPS Agreement. However, the panel indicated that allowed the EC to maintain its system pursuant to the limited exception proviuse of trademarks. The panel agreed that there was an inconsistency, but not specifically registered. the limited exception would not extend to linguistic versions of GIs that were inconsistent with the EC's obligation to allow the registration and effective conflicting trademark registrations. The US and Australia argued that this was

US Claims regarding Brazil's compulsory licensing legislation

usefully be considered. On May 30, 2000, the United States requested consulimportant issues which may be relevant to future dispute settlement it may sory licensing was settled prior to the convening of a panel, because it raised tations with Brazil under the WTO Dispute Settlement Understanding, stating Although a dispute between the United States and Brazil regarding compul-

The United States considers that such a requirement is inconsistent with Brazil's obligations under Articles 27 and 28 of the TRIPS Agreement, and Article III of the requirement stipulates that a patent shall be subject to compulsory licensing if the subject matter of the patent is not 'worked' in the territory of Brazil. Brazil then explicitly defines 'failure to be worked' as 'failure to manufacture or incomplete which establish a 'local working' requirement for the enjoyability of exclusive patent rights that can only be satisfied by the local production – and not the imporpatent rights that can only be satisfied by the local production. [The United States] request[s] consultations with the Government of Brazil ... concerning those provisions of Brazil's 1996 industrial property law (Law No. 9,279 of 14 May 1996; effective May 1997) and other related measures, manufacture of the product', or 'failure to make full use of the patented process' tation - of the patented subject matter. Specifically, Brazil's 'local working'

submission of written pleadings by either party. However, the request for of a panel. The United States withdrew its complaint in this matter prior to the consultations illustrates that provisions authorizing compulsory licensing for The request for consultations was followed by a US request for establishment 'non-work' may be subject to a future challenge under Article 27 of the TRIPS

did not incorporate a direct prohibition. Instead, it says that patent rights shall direct prohibition of local working requirements, but the TRIPS Agreement differed strongly on the issue of local working. Several delegations favored a working requirements, and effectively to supersede the Paris Convention rule intended to prohibit WTO Members from adopting and implementing local States against Brazil is whether Article 27:1 of the TRIPS Agreement was ure to work a patent. A major issue in a case such as that brought by the United The negotiating history of the TRIPS Agreement indicates that Members The Paris Convention authorizes the grant of compulsory licenses for fail-

> grounds for requiring local working of a patent. justifies a local working requirement. There are no doubt other justifiable tions within the national territory is essential to national security, and therefore might well argue that requiring production of certain defense-related invenadopted for bona fide (i.e., non-discriminatory) purposes. A WTO Member produced or imported. Under the jurisprudence of the Canada-Generic be enjoyable without 'discrimination' as to whether goods are locally Pharmaceuticals case, this leaves room for local working requirements

own manufacturing facilities for avian flu treatments. believes that in a pandemic situation, foreign suppliers would divert products to their own markets, and that it was essential that the United States have its US preparation for a potential avian flu pandemic. He said the United States testimony by US Secretary of Health and Human Services Leavitt regarding The importance of local working was demonstrated in 2005 congressional

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### Current and future issues

The role of WIPO

protect domain names on the Internet. 117 of the TRIPS Agreement, the WIPO Copyright Treaty and WIPO to serve as a forum for negotiations on IPRs. Shortly following entry into force of patents and trademarks in many countries, including the Patent Cooperation for alternative dispute resolution with respect to IPRs, including those that traditional knowledge. Third, WIPO is increasingly assuming a role as forum of rules on the relationship between IPRs and genetic resources, as well as governing body of the Convention on Biological Diversity in the development ing the appropriate standards of protection. WIPO is cooperating with the patent law harmonization continue at WIPO, although the pace of these negohave entered into force. Among other things, negotiations on substantive Performances and Phonograms Treaty (WPPT) were concluded at WIPO, and is highly technical work and employs a large staff. Second, WIPO continues Treaty (PCT) and Madrid Agreement and Protocol. Administration of the PCT tiations is slow due to continuing differences in national perceptions concern-WIPO administers treaties pursuant to which persons may secure registration WIPO also continues to play a major role in regulating IP in world trade. First

The most controversial of the ongoing WIPO negotiations concerns

<sup>117</sup> The WIPO Arbitration and Mediation Center serves as a dispute settlement service provider under the ICANN Uniform Domain Name Dispute Resolution Policy and routinely appoints panels to resolve disputes between persons claiming rights in http://www.wipo.int. trademarks and domain name registrants. Information about the Center can be found at

play in society. A substantial number of multilateral organizations, including in IPRs-related matters in recent years. Organization (WHO), among others, have taken a much more active interest the Food and Agricultural Organization (FAO), United Nations Conference or the period since its adoption has seen a strong public focus on the role IPRs While the TRIPS Agreement was negotiated with minimal public attention, Trade and Development (UNCTAD), World Bank and World Health

whole, substantial 'net payers' for technology. While it may seem like a good enterprises in the industrialized countries. Developing countries are, on the and commercialize them. The vast preponderance of patents is owned by substantial disparity in the capacity of countries to develop new technologies tional patent law. Why is this subject matter so controversial? First, there is a tiate the Paris Convention included proposals to create harmonized internasubstantive patent law harmonization. Recall that the earliest efforts to nego-

times referred to as the problem of 'coherence'. At the moment, there is authority of the WTO and the rules of the TRIPS Agreement? This is someucts and public health, respectively? How does that authority relate to the have the authority to regulate patents and trademarks in the areas of food prodlimited practical attention being given to this problem. IPRs issues exercised by the WTO raises concern. Do the FAO and WHC From the standpoint of other multilateral organizations the control over

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contentious issue. In recent years NGOs have made it more difficult to ments are representative of their people? Or, is national representation at the disease and economic inequity. Should only national governments have a capacity to pursue their missions and have become powerful advocates on out Borders), Oxfam, and others recognize that IPRs may directly affect their try has sought ways to limit the influence of NGOs, including by shifting conclude trade and IPRs negotiations on terms sought by industry, and indus-NGO representation is necessary to provide a counterweight? This is a WTO and other multilateral fora skewed in favor of industrial interests so that voice at the WTO and other multilateral organizations because those govern-IPRs issues that affect their work, including work in combating hunger, tal organizations (NGOs), including Médecins Sans Frontieres (Doctors with negotiations to less transparent forums. In addition to the governmental side, civil society through non-governmen-

cines. 120 Sharp controversy arose when the major pharmaceutical research a major way in the context of a debate concerning the role of patents on medialleged inconsistencies with the TRIPS Agreement challenged legislation that had been adopted in South Africa to improve access to medicines. The TRIPS companies, backed by the United States and European Union, on the basis of The medicines debate The TRIPS Agreement entered the public spotlight in Agreement did not support or justify the pharmaceutical industry claims

a single patent and obtain worldwide monopolies for their new products, this negotiations are growing ever stronger. substantive patent law harmonization negotiations at WIPO are contentious such as the protection of biodiverse resources, will not be given enough attenexample, by imposing a strict standard for inventive step. Also, there is payer for technology may wish to make it more difficult to obtain patents, for mainly pay higher prices for patented products, that is, the net payers. 118 established in the highly industrialized countries, which rules would pave the patenting costs and administrative problems is so important, this idea has so far made limited headway. However, major development, and because the idea of granting effective 'global monopolies' tries. 119 Because of the disparate interests of countries at different levels of tion of an 'international patent' that will be effective for all (or most) counseveral years concerns whether the world community will move toward adop-However, the pressures from the industrialized countries to conclude such which there is yet to be agreement on harmonization. For all these reasons, the some significant differences in the way that the patent systems function and on highly developed countries like the United States and the EU there remain tion in these negotiations. Finally, but not exhaustively, even among the most concern among some developing countries that issues of importance to them to control how easy or difficult it is to obtain patents. A country which is a new in the way they define the criteria of patentability. This gives them the ability Under the TRIPS Agreement, countries currently have substantial discretion idea is looked at differently from the standpoint of people in countries who way for a system in which multinational companies ultimately could apply for harmonized worldwide patent standards which would be based on the rules idea from the standpoint of someone in the United States or Germany to have industrial companies are likely to keep pressing for this as a way to reduce One of the most important policy debates likely to take place over the nex

In fact, current negotiations for substantive patent law harmonization do not

at http://www.wipo.int. envision a 'single patent', rather uniform rules that must be applied by all countries.

See Barton (2005), 617; and reports of ongoing work on WIPO Patent Agenda

result, however, WTO Ministers at the urging of developing countries and pressure reflecting the seriousness of the HIV-AIDS pandemic in Africa. As a Members to take advantage of the flexibilities in the TRIPS Agreement. Health in November 2001, which, among other things, confirmed the right of NGOs adopted the Doha Declaration on the TRIPS Agreement and Public Industry was ultimately forced to withdraw its claims under intense public

will continue in effect until the amendment is approved by all WTO Members it is approved by a sufficient number of Members. The Decision and waiver adopted a Protocol Amending the TRIPS Agreement that will transform the to predominant supply of a Member's domestic market, and also limits remuthe TRIPS Agreement and Public Health, which provides a waiver of certain in the pharmaceutical sector. 121 It instructed the TRIPS Council to make a of compulsory licensing by countries with insufficient manufacturing capacity August 30, 2003 Decision into an amendment of the TRIPS Agreement when neration to the exporting country. On December 6, 2005, WTO Members imposed by Article 31(f), which limits production under compulsory license TRIPS obligations. More specifically, it waives the restriction otherwise 2003, Decision on Implementation of Paragraph 6 of the Doha Declaration or TRIPS Council recommended and the General Council adopted the August 30, recommendation on the subject. After nearly two years of negotiation, the Paragraph 6 of the Doha Declaration addressed the problem of effective use

environment, few new pharmaceutical products are likely to be available for elements of developing country TRIPS flexibility. In the post-January 1, 2005 sory licenses for export to countries with insufficient manufacturing capacity compulsory license for them. turing capacity may need to request countries with capacity to produce under China. 123 In order to obtain supplies, developing countries without manufacimport in generic versions from traditional suppliers such as India and tions for using the system. 122 The Decision and Amendment are important for particular pharmaceutical products. It establishes procedures and condi-The Decision and Amendment authorizes WTO Members to grant compul-

product patent and data protection, and perhaps more importantly provided obligation on 'least developed' WTO Members to provide pharmaceutica that until that date least developed countries could elect not to enforce exist ing patents and data protection obligations. This decision had very important Paragraph 7 of the Doha Declaration extended until January 1, 2016, the

ment, and could register treatments without concern about data protection medicines patented within their territories without concern about infringecircumstances of the case. and obligations involved in the granting of government use or compulsory recognized flexibilities. Least developed countries could avoid the procedures rules, provided only that the government decides to take advantage of WTOconsequences for least developed countries. They could import or produce licenses, including the obligation to provide adequate remuneration in the

risk that the weakening of patent protection ultimately will harm global consumers who will have fewer new treatments available. 124 of R&D, and the research-based pharmaceutical industry (Pharma) points to a of new medicines. Patents provide one mechanism to encourage the funding Pharmaceutical research and development is necessary for the introduction

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cymakers struggle with. The medicines debate will continue. overwhelms the capacity of the health sector to provide treatment. Whether is tuberculosis, but also heart disease, diabetes, intestinal and respiratory disease, of global R&D funds is generated by sales in developing countries. The ceutical R&D is accounted for by government subsidy. Only a small portion directed to basic pharmaceutical research. A substantial portion of pharmato allow medicines to be made available at low prices, is a question that poli is more important to increase patent rents from these countries, or alternatively disease burdens in many of these countries, including HIV-AIDS, malaria, and imately \$28 billion), administered by the National Institutes of Health, is United States, a great deal of public money (in each of 2005 and 2006, approx-The problem of funding pharmaceutical R&D is a very complex one. In the

## Protection of biodiverse resources

applications of the source and origin of genetic resources. 125 Agreement should be amended, for example, to require disclosure in patent Biological Diversity (CBD), and whether the patent rules of the TRIPS include the relationship between the TRIPS Agreement and the Convention on other important policy issues being addressed in the TRIPS Council. These While the medicines debate has received the most public attention, there are

as well as arrange for the equitable sharing of benefits from exploitation. The exploit those resources have the 'prior informed consent' of the host country their territories, and requires that persons seeking to bioprospect for and The CBD recognizes that states own the genetic resources located within

<sup>121</sup> See Abbott (2005c).

Abbott and Puymbroeck (2005)

substantial quantities available for export without use of the Decision and Amendment issue government use or compulsory licenses to supply their domestic markets, leaving 122 123 This is not a foregone conclusion because India and China may choose to

For support in the academic literature, see DiMasi et al. (2003).

See contributions by Dutfield, Taubman, Cottier and Pannizon and Coombe, all in Maskus and Reichman (2005), at 495–614.

majority of genetic resource stocks are located in so-called 'Megadiverse' countries, and all but one of those is a developing country (the United States is the industrialized Megadiverse country). A number of developing countries have argued in the TRIPS Council and at WIPO that patent applications should include information regarding where genetic resources come from in order to allow them to effectively police their rights under the CBD. Patent applicants may otherwise be able to describe biotechnological inventions without providing information that will let the patent examiner know that information regarding the invention may be available from foreign sources, and without notice to the country which supplied the genetic resources that would allow it to determine whether there was prior informed consent. The United States so far is the country most strongly opposing the effort to require disclosure, arguing that the source and origin of genetic resources is not relevant to patentability and should not be part of the patent application process.

# The regulation of IP at the regional and bilateral level

IP is regulated by regional organizations such as the European Union. The EU regional arrangement in many ways seeks to replicate a federal regulatory system, and from the standpoint of trade regulation is largely unique. Given the enlargement of the EU to 25 member states and its importance as a market for goods and services, the details of its IP regulatory system are important to those involved in international business.

There are many regional organizations, including the Andean Community, ASEAN (East Asia), APEC (Asia-Pacific), CARICOM (Caribbean), NAFTA (North America), MERCOSUR/I (South America Southern Cone and Venezuela) and SACU (Southern Africa). Each of these organizations has adopted some form of IP rules.

In recent years, the United States in particular has used regional and bilateral free trade negotiations as a way to obtain concessions from other countries on IPRs matters. <sup>126</sup> In the context of regional and bilateral free trade agreement negotiations, the United States has obtained commitments on standards of patent, copyright and trademark protection substantially higher than those found in the TRIPS Agreement or other multilateral agreements, and has also obtained major commitments for the protection of pharmaceutical products. Developing countries accepting these commitments are effectively agreeing to increase rent payments on medicines to the United States, and there is considerable debate about whether this serves the social welfare interests of these developing countries.

### Continuing tensions

countries like Switzerland and Singapore may compete with the United States in generating new technologies. 128 The countries with a high capacity for educational system and research institutions, whether public or private, will ties for generating IP and making use of it. 127 A country with a well-developed terms of the production of goods and services, so they have different capacialso differ in respect to their interests in offering and accepting concessions in products. Therefore, just as countries differ in respect to their interests in offercountries whose agricultural producing regions are less well identified with protecting geographical indications (like Champagne or Parma ham) than history of specialized agricultural production may have stronger interest in innovation may have a stronger interest in IP protection than countries more have advantages over countries where these resources are lacking. Smaller Just as countries have different capacities and comparative advantages in identifiers will likely have a weaker interest in offering higher standards of IP IP. A country that is going to be a 'net payer' for technology, expression or ing and accepting concessions on tariffs and quotas in trade negotiations, they likely to be importers of innovation. Some regions, like Europe, with a long

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The TRIPS Agreement effectively mandated universal standards of IP protection. These rules are applicable to countries at widely different stages of economic development, with different political, cultural and educational systems. <sup>129</sup> The balance reflected in the TRIPS Agreement was composed over time in various industrialized countries. <sup>130</sup> Developing countries must accommodate to these rules. In many cases, the infrastructure to do this is lacking. Some developing countries made policy choices that differed substantially from those of the US, EU and Japan. Those choices have now been unwound. The TRIPS Agreement took developmental and policy differences into account by including transition arrangements, but transition periods have

See discussion and analysis of the phenomenon in Abbott (2005c), 348-58 and Abbott (2005b), 88-98, Drahos (2002); Fink and Reichenmiller (2005); World Bank (2005), chapter 5, at 98-B110.

An excellent review of the economic literature concerning the role of IPRs in economic development is Fink and Maskus eds (2005).

128 If a small country lacks the forms

If a small country lacks the factors necessary to move new technology into commercial scale production, it may elect to license out innovation to foreign producers

On differential interests in IPRs, see Maskus (2000), and Abbott (1998a).

In the United States, the Constitution addresses IP. Congress plays an active role in regulating IP. US IP law is adjusted on a more or less regular basis to accommodate changes in technologies and perceptions about the proper balance between the rights that should be accorded to innovators and the access that should be permitted consumers. In areas of high social concern, such as pharmaceuticals, the US Congress has adopted highly complex mechanisms for balancing the interests of innovating companies, generic producers and consumers.

other fora continue to be a source of controversy. Because of the important and disparate interests at stake, this should not be surprising. now largely expired. Negotiations on TRIPS subject matter at the WTO and in

consumers, and among the wealthy and the poor. The people of the world are closely linked by new technologies and we share an interest in a stable and stakeholders in IPRs protection, so must those responsible for negotiations at equitably shared among the richer and poorer nations. Just as national legislaof life and enhance productivity. It is important, however, to bear in mind that prosperous international environment. the multilateral level seek to strike an appropriate balance among industry and tors must seek to strike a balance between the interests of various domestic knowledge, even if for a limited time. The benefits of IPRs protection are not economy. New products and methods for producing them improve the quality innovation and protection of investment are important objectives for the global vation and creative expression, and they protect investment. The promotion of IPRs protection also imposes social and economic costs. It restricts the use of Intellectual property rights perform a variety of functions. They promote inno

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# 12. Power and cooperation in international environmental law

Richard H. Steinberg\*

This chapter examines international environmental regulation from economic, political, and legal perspectives. Section 1 introduces the economics and politics of international environmental regulation. International agreements on environmental issues are often seen as symmetric contracts among states, solving cooperation problems among states with similar interests, or facilitating side-payments from states that favor environmental regulation to states that would not otherwise support regulation. In contrast, some realist political scientists suggest that when international environmental interests vary across states, international environmental agreements often result from coercion of weaker states by more powerful ones.

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With this framework in mind, the bulk of this chapter examines the negotiation and substance of the world's most important international environmental agreements. Section 2 examines the main agreements related to international environmental protection of the oceans, including those concluded to protect fisheries and those intended to reduce land-based marine pollution. Section 3 examines the main agreements relating to global air pollution and climate change – the Montreal Protocol to the Vienna Convention for the Protocol to the United Nations Framework Convention on Climate Change (Kyoto Protocol). Section 4 explores the main trade and the environment issues and agreements, including the Basel Convention on the Transboundary Movement of Hazardous Wastes (Basel Convention)<sup>4</sup> and the Convention on

<sup>\*</sup> I thank Andrew Guzman, Kal Raustiala, and Alan Sykes for their suggestions and Jeremy Regal for research assistance.

As this suggests, this chapter focuses on understanding commitments to (i.e. not compliance with) international environmental agreements.

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<sup>3</sup> Kyoto Protocol to the FCCC, FCCC Conference of the Parties, 37 ILM 22 (1998).
4 Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal, 22 March 1989, 28 ILM 649 (1989).