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Patents in Biotechnology— Indian Scene

Biotechnology has captured the attention of the scientific world and all nations. Every country is prepared to spend large funds to promote biotechnology. The race is to see which nation will emerge as global 'bio-power'. In the scientific world the notion 'publish or perish' has shifted to 'patent or perish'. Patent protection in biotechnology is not new. The first patent was granted on a biotechnology product in 1843 and since then patents have been granted in many countries for biotechnology products and processes. According to the current patent regime India provides protection for processes rather than products in biotechnology.

After becoming a member of WTO India is obliged to amend its patent laws to provide product patents for pharmaceuticals and agrochemical patents to comply with TRIPS agreement. In 1999, India amended its patent laws to provide 'mail box' system for filing patents and exclusive marketing rights for 5 years.

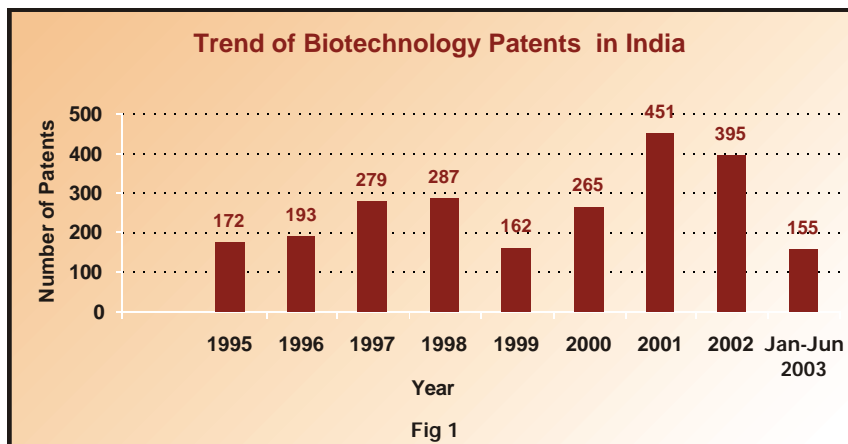
The PFC is presenting to its readers, the patent filing scene in the area of biotechnology. Patent applications filed in a particular field indicate the progress and interest of the industry in that field of

technology. The present study is based on the applications filed in the Indian Patent Office from 1995 to June 2003. As a key word search in Ekaswa A has been done on the titles of inventions, there would be many cases of overlap as more than one key words can appear in the same title. A large set of key words and careful analysis of titles were utilized for capturing the applications in the area of biotechnology and then a detailed exercise was carried out. The findings are presented below:

- A total of 2378 patent applications have been filed in India till June 2003.
- Out of 2378 applications, 716 are convention applications and 774 are PCT applications.
- The maximum number of applications (451) have been filed in the year 2001 (Fig 1)

- CSIR is the single major applicant in this field with 202 patents filed in its name. Other major applicants are:

S. No	Applicants	No. of Patents filed till June 2003
1.	American Cyanamid Co	25
2.	Avestha Gengraine Tech	23
3.	BASF Aktiengesellschaft	88
4.	CSIR	202
5.	F Hoffmann La Roche AG	36
6.	Hindustan Lever Ltd	28
7.	Novo Nordisk	79
8.	Pfizer	21
9.	Smithkline Beecham	35
10.	The Procter and Gamble Co	55
11.	Zeneca Inc	22



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Patents in

- The major areas in which patent applications have been filed are:

S. No	Area	No. of Patents filed till June 2003
1.	Protein + Enzyme	700
2.	Bacteria + Bacillus	236
3.	Fungi (include fungicides)	219
4.	Virus	162
5.	Therapy	138
6.	Gene	136
7.	Vaccine	123
8.	Sequence	120
9.	Nucleic acid + RNA	115
10.	Fermentation	109
11.	Antigen	88
12.	Vector (Plasmids & Phages)	66
13.	Mutation	54
14.	Transgenic	47
15.	Microorganisms	45

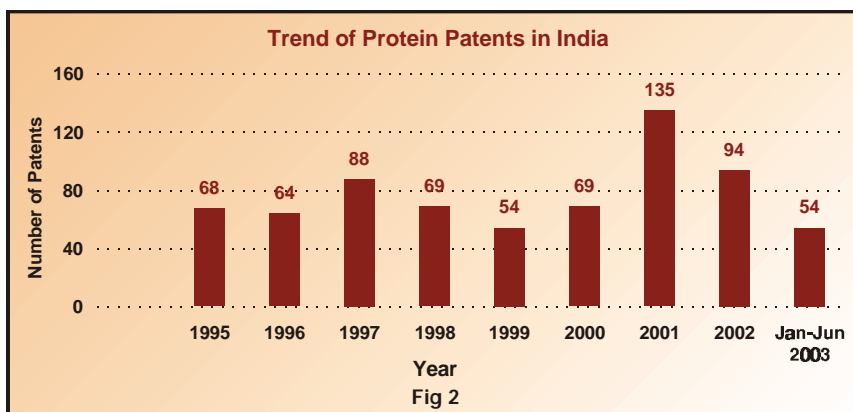
Other areas are hybrid (44), library (10), tissue culture (15), embryo (18), cell line (10), enhancer (27), marker (31), transformation (33), promoter (40).

Many of these applications may be in respect of products, drugs/

pharmaceuticals, genetically modified microorganisms, naturally occurring RNA/nucleic acids and genes. As per the present position, such applications may not qualify for grant of patents in India. Some of these may be taken as mail box applications. The number of applications filed certainly indicate the relative importance

S. No	Applicants	No. of Patents filed till June 2003
1	CSIR	82
2	Novo Nordisk A/S	62
3	The Procter & Gamble	44
4	Hindustan Lever Ltd	17

The trend of patent applications in the field of proteins is illustrated below (Fig 2)



being attached by the industry in relation to the Indian market in the next 15 years in various areas. The number in microorganisms related applications is around 800 which is fairly a large number. The need for more recognized International Depository Authorities in the country is quite obvious. If more such depositories are in place, the number of applications may go up.

Proteins, the product of genes has opened a new branch in biotechnology-Proteomics. In the area of proteins, 700 patent applications were filed till June 2003. Out of which 240 applications were convention applications and 228 were PCT applications. These applications also include 245 patent applications for enzymes. The major applicants in this area are:

A closer look of patents filed in this field shows that 19 applications belonged to the process for expression and production of recombinant proteins and their use for vaccine production mainly HIV (11). 21 patent applications are for antigen proteins, 19 for pharmaceutical formulations and 15 for fusion proteins. 8 applications belong to enzyme immobilization. 75 applications filed for inhibitors of different enzymes in metabolic pathways. 36 patent applications are for detergent formulations with different enzymes. About 20 applications are for preparation of high protein rich foods. There are many applicants who have filed less than 17 applications but are not listed here. The growth in filing has not followed a uniform pattern. It is perhaps lower than expectations. (We would present analysis of patent applications relating to genes, microorganism etc in subsequent issues).

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Turmeric Continues to be a Winner – A Case Study

One hundred and twenty one (121) turmeric related patents have been granted in the USA since 1976 by the USPTO. Only 8 patents were accepted in India and 17 turmeric related applications filed since 1995. We present two case studies on such patents, one of the two is related to the well known anti inflammation property of turmeric.

A patent entitled "Immune functions" was granted on July 27th, 2004 to an individual Dr. Michael D. Farley. This invention relates to an immunity system of a human body, against viral and infectious diseases and cancer. The formulation to be used as food supplement claimed in the invention has turmeric as one of the main constituents. The first claim reads as follows:

A method for making a food supplement composition consisting of:

- a) combining 40 to 140 mg of green tea extract 95% with about 200 to 600 mg of coriolus PSK and about 200 to 600 mg of chrysin;
 - b) combining 50 to 150 mg of powdered turmeric extract 95% with about 20 to 80 mg of quercitin dihydrate 99%;
 - c) combining 15 to 75 mg of phosphatidyl choline 50% with about 50 to 150 mg of 3,3' diindolylmethane (DIM) and 50 to 150 mg of resveratrol 25%; and
 - d) combining the mixtures resulting from steps (A), (B), and (C) and together to form a food supplement unit; and
 - e) combining the food supplement unit with an edible liquid so as to form a food supplement broth.
- It may be observed that the

protected formulation contains many constituents such as green tea, phosphatidyl cholina along with turmeric. Obviously turmeric has not been patented as such but seems to play a significant role in various formulations.

Another patent entitled "Anti Inflammatory herbal composition and method of use" was granted in May 2002 by the USPTO to Thomas Newmark and Paul Schulick. The invention relates to a composition having turmeric as one of the constituents which can reduce inflammation in bones and joints in animals, particularly in humans. It also deals with methods of using such herbals compositions. One aspect of the present invention is directed to an orally or topically administered composition capable of reducing inflammation in animals, preferably humans. Turmeric has been known to have anti-inflammatory properties for a long time in this country. Majority of households in India would be familiar with this property as turmeric is often used for injuries, sprain etc. It would appear that the claimed composition will have a synergy leading to higher efficacy than that of turmeric when used alone. This invention claims a composition with turmeric as one component.

There are as many as 43 claims in the patent; the important ones on using turmeric are given below:

1. An orally or topically administered herbal composition for reducing inflammation in an animal, suffering from inflammation, comprising: a therapeutically effective amount of a post-supercritical carbon dioxide alcoholic extract of ginger, therapeutically effective amounts of supercritical carbon dioxide extracts of rosemary, **turmeric**, oregano and ginger; and therapeutically effective amounts of hydroalcoholic extracts of holy basil, **turmeric**, scutellariae

baicalensis, rosemary, green tea, huzhang, Chinese goldthread, and barberry.

2. A composition wherein the composition comprises the hydroalcoholic extract of **turmeric** at a weight ratio of from about 8 to about 12 parts of hydroalcoholic extract per 1 part of supercritical carbon dioxide extract.
3. A composition wherein the supercritical carbon dioxide extract of **turmeric** comprises from about 36% to about 54% by weight of turmerones.

Turmeric related patents granted in the US address many different applications such as reducing inflammation in bones and joints, improving immune functions, improving liver function, memory and cognitive ability, treating skin disorders, supplementing diet, treating osteoarthritis, gastro-oesophageal flux, repairing connective tissues, microbial infection, repelling insects, healing wounds and antioxidants. All these 121 patents, as listed below in Table 1 have turmeric or curcuma as the common element indicating that turmeric is crucial to these inventions. Of late the compositions/formulations claimed in patents contain many different herbs used in different parts of the world. Secondly, modern methods are being used for extraction and other processes. Obviously, inventors are looking for synergetic effect of mixing different herbs, a methodology in which ayurveda had attained a mastery centuries back. These patents fail to mention the contribution, in terms of effect and efficacy, of each different herbs or constituents. It would be interesting to see someone examining the contribution of turmeric in some of the compositions.

It may be important to note that 3 plant patents (PP 14304, PP

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Turmeric

12881 and PP 12,866) have also been granted. Incidentally these plants were also protected under the UPOV system which does not grant patents but a different kind of protection derived from plant breeders rights. Who says plants can not be protected?

Table 1 (US Patents)

S. No.	Title
1	Immune functions
2	Liver function improvement formulation
3	Natural azadirachtin composition
4	Neuroceutical for improving memory and cognitive abilities
5	Product and method for treating joint disorders in vertebrates
6	Antibacterial composition having xanthorrhizol
7	Hair dye and hair-dyeing methods using the same
8	Herbal formulation
9	Curcuma plant named 'Laddawan'
10	Nutrient formulations for disease reduction
11	ATP synthesis activator containing a mixture of herbs
12	Nutritional supplement and methods of using it
13	Medicinal composition and method of using it
14	Composition for topical application to skin
15	Purification process for improving total yield of curcuminoid colouring agent
16	Cytotoxic pharmaceutical composition
17	Herbal composition and method for controlling body weight and composition
18	Compositions and methods of treatment for skin conditions using extracts of turmeric
19	Polymer film compositions for capsules
20	Composition of herbal biscuits for lactating mothers acting as dietary supplement and process for preparation thereof
21	Coloring substance composition and a method of manufacturing same
22	Turmeric-containing cooking oils and fats
23	Composition for the treatment of osteoarthritis
24	Process for providing herbal medicants in cellulose derivative capsules
25	Methods and compositions for producing weight loss
26	Method for obtaining apolar and polar extracts of curcuma and applications thereof
27	Composition for treating white spot syndrome virus (WSSV) infected tiger shrimp penaeus monodon and a process for preparation thereof
28	Food supplement/herbal composition for health enhancement
29	Curcuma plant named 'Thai Beauty'
30	Curcuma plant named 'Thai Supreme'
31	Herbal compositions for hepatic disorders
32	Mixed fine powder for beverage containing young barley leaves, alfalfa and/or kale
33	Compositions, kits, and methods for providing and maintaining energy and mental alertness
34	Liberating intracellular matter from biological material
35	Anti-inflammatory, sleep-promoting herbal composition and method of use
36	Anti-Inflammatory herbal composition and method of use
37	Acidulant system for marinades
38	Anti-oxidant reducing substance and method of producing the same
39	Formulations for the treatment of gastro-oesophageal reflux
40	Product and method for treating joint disorders in vertebrates
41	Therapeutic compositions containing glucosamine, collagen and a bioflavanol for repair and maintenance of connective tissue
42	Flowable drug precursor products ready for pressing for tablets, pellets and sugar-coated tablets and processes for preparing the same
43	Process for cleaning turmeric stains
44	Process for production of dihomogamma-linolenic acid and lipid containing same
45	Turmeric as an anti-irritant in compositions containing hydroxy acids or retinoids
46	Herbal compositions and their use as anti-inflammatory agents for alleviation of arthritis and gout
47	Cosmetic formulations for the prevention and therapy of hair loss
48	Herbal composition for reducing inflammation and methods of using same
49	Therapeutic antimicrobial compositions
50	Process for providing herbal medicants in cellulose derivative capsules
51	Colored multi-layered yogurt and methods of preparation
52	Certain diterpenes and extracts or concentrates of curcuma amada containing them for use as medicaments
53	Process for extraction of curcuminoids from curcuma species
54	Dietary supplement for nutritionally promoting healthy joint function
55	Freeze-dried ginseng berry tea
56	Spicy popcorn with natural ingredients
57	Process for the preparation of a stable, homogeneous, extract free or nearly free from secondary reaction products
58	Herbal formulation useful as a therapeutic and cosmetic applications for the treatment of general skin disorders
59	Mastication article possessing microbe-inhibiting properties
60	Natural pigment-containing flowable powder
61	Herbal compositions and their use as agents for control of hypertension, hypercholesterolemia and hyperlipidemia
62	Composition useful for healing and protecting skin
63	Herbal compositions for hepatic disorders
64	Process of coloring french fry potatoes
65	Method of rendering organic compounds soluble in fatty systems, novel chemical complexes of such compounds and various applications of the complexes
66	Turmeric for treating health ailments
67	Process for the removal of undesired lipophilic contaminations and/or residues, which are contained in beverages or in vegetable preparations
68	High temperature countercurrent solvent extraction of herb or spice solids
69	Electrostatic deposition of edible liquid condiment compositions upon edible food substrates and thus-treated products
70	Estimation of active infection by heliobacter pylori
71	Pourable fat compositions containing a thickener
72	Salt making method and apparatus
73	Swine feed containing vitamin E and spice
74	Insect repellent composition and method for inhibiting the transmission and treatment of symptoms of vector-borne diseases

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Turmeric

75 Process for producing pharmaceutical preparations having a higher content of active plant ingredients

S. No.	Title
76	Natural heat stable flavorings for bakery applications
77	Turmeric for treating skin disorders
78	Natural composition for combatting fungi
79	Composition for dyeing keratin fibers containing vegetable dyes, a direct dye compound and oil and method of dyeing hair using same
80	Insect repellent coatings
81	Method of making a health food product containing anti-oxidants
82	Process for separating organogermanium compounds and inorganogermanium compounds from a germanium-containing pharmaceutical plant or its processed products
83	Feed for livestock and poultry and a method for improving meat and fat obtainable from livestock and poultry using the same
84	Herbal compositions
85	Controlled-release insect repellent device
86	Health food product and its uses
87	Composition for improving the digestibility of feed intended for ruminants
88	Water insoluble coloring agent
89	Method of treating musculoskeletal disease and a novel composition therefor
90	Hardening agent for affected tissues of the digestive system
91	Antiviral agent containing crude drug
92	Use of preparations of curcuma plants
93	Use of turmeric in wound healing
94	Aqueous-based stop-leak formulation
95	Process for production of 8,11-eicosadienoic acid using <i>Mortierella alpina</i>
96	Stop-leak formulations with improved storage stability
97	Method for making tetrahydrocurcumin and a substance containing the antioxidative substance tetrahydrocurcumin
98	Process for preparing a browning composition
99	Hardening agent for affected tissues of the digestive system

100	Dry soup mix
101	Dye and method for making same
102	Process for preparing a partial extract containing the volatile in steam components and further lipophilic components of medical plants and/or spice plants
103	Browning composition and process for browning foods
104	Combinations of compounds isolated from curcuma spp as anti-inflammatory agents
105	Hydrolysis of curcumin
106	Process for production of bishomo-gamma-linolenic acid
107	Chewing gum and a method of manufacturing the same
108	Pharmaceutical compositions for reducing hyperlipidemia and platelet-aggregation
109	Fat product with improved properties
110	Control of microflora
111	Antivenom composition
112	Colored medicinal tablet, natural color pigment and method for using the pigment in coloring food, drug and cosmetic products
113	Colored medicinal tablet, natural color pigment and method for using the pigment in coloring food, drug and cosmetic products
114	Liquid seasoning compositions II
115	Stabilized curcumin colorant
116	Curcumin-metal color complexes
117	Tinted pit and fissure sealant
118	Turmeric coloring process and composition for foods and beverages
119	Process for producing water and oil soluble curcumin coloring agents
120	Extracting foods with a dimethyl ether-water mixture
121	Oleomargarine with yellow food coloring

17 applications have been filed in India since 1995. The titles are given below in Table 2.

Table 2

Title
1. Curcuma pelletisation
2. A process for the recovery of curcuminoids mixture from spent turmeric oleoresin
3. A process for producing pure curcumin from curcuma longa linn and preparation of an anti-tumor antitoxic and immunomodulatory composition containing the same
4. The process of isolation of anticancer compound 6 8 3 trimethoxy 5 4 dihydroxy 5 methyl 7 rhamnoglucosyl isoflavone from the rhizomes of curcuma longa linn family zingiberacea

5. A process for the preparation of water soluble turmeric colorant formulations useful as yellow colorant in foods and beverages
6. A process for the isolation of ar-turmerone oil from turmeric oleoresin industry waste
7. Isolation of isoflavonoids from the rhizomes of curcuma longa linn family zingiberaceae and their anti cancer activities
8. Turmeric as an anti-irritant in compositions containing hydroxy acids or retinoids
9. Leaf oil of curcuma domestica
10. A turmeric based bandage and a method of making the same
11. A turmeric based bandage and a method of making the same
12. A process for extraction of curcuminoids from curcuma species
13. Isolation of isoflavonoids from the rhizomes of curcuma longa linn family zingiberaceae and their anti-cancer activities
14. A process for the preparation of translucent paper from turmeric plant curcuma longa linn and translucent papers prepared thereby
15. A process for the recovery of active principles from curcuma longa having antiviral applications
16. A process of preparation of oil from oleum capivi goat meat and oil of curcuma longa/domestica arachis hypogaea margosa oil madhuca latifolia moringa pterygosperma allium sativum syzgium aromaticum chinamonium casia comphora citranela eucalypt
17. A process to prepare medicinal preparation containing extracts of turmeric catechu/khairsaal and betel leaf

In the same period the Indian Patent Office accepted 6 applications (Table 3). An innovative use of turmeric in bandages may be noted.

Table 3

Title

1. An improved process for the preparation of enriched spice oleoresin such as turmeric and pepper
2. A method of making a turmeric based bandage
3. A method of making a turmeric based bandage
4. A process for the extraction of an immunomodulating fraction from *curcuma longa* mainly containing (A) AR-turmerone (b) dihydro-turmerone in the ratio of 1:1 5 to 1 :2
5. The process of isolation of anticancer isoflavonoids from the rhizomes of curcuma longa linn family zingiberaceae
6. A process for producing therapeutically active pure curcumin from *curcuma longa* linn

Generic Drug Makers Versus Innovators

Eventhough generic drug makers are increasingly winning patent battles in the United States, the recent battle between Dr. Reddy's Laboratories and Pfizer Incorporation over a blockbuster drug decided in the United States Federal Court on 27 February 2004 could set a precedence for generic drug makers versus innovator wars.

Pfizer Incorporation was granted a patent (US 4,572,909) in February 1986 on certain dihydropyridine compounds and their acid addition salts that treats heart diseases and hypertension. The patent '909 also covered the compound amlodipine and its salts. Pfizer obtained federal registration of this anti-hypertensive and anti-ischemic drug whose active ingredient is amlodipine, as its besylate salt and marketed it as Norvasc. During this process, Pfizer submitted clinical data obtained using both amlodipine besylate and amlodipine maleate. When the patent's expiry date neared, Pfizer went and filed a Patent Term Extension (PTE) under the Hatch-Waxman extension rules and got it extended for 1, 252 days till 31 July 2006. In December 2001, Dr. Reddy's Laboratories filed a abbreviated new drug application (ANDA) for amlodipine maleate (AmVaz) on the basis that amlodipine maleate is covered by the claims of the '909 patent but the term extension applies only to the besylate salt because it's a registered product.

Pfizer however not willing to share its exclusivity sued Dr. Reddy's for patent infringement, insisting that its PTE covered the entire scope of amlodipine, but lost the case in the New Jersey court. Dr. Reddy's victory was shortlived when Pfizer appealed to the US Federal court.

The Hatch-Waxman Act has provision for generic drug makers

which allows freedom from infringement during production and testing of generic counterparts intended for sale after patent expiration. The Act also allows the generic producers to rely on the patentee's data and approved uses to support approval of their generic counterparts subjecting to the requirement that the generic product is independently shown to be safe and effective.

The patent term restoration provision of the Hatch-Waxman Act for a new drug is to extend the patent term for balancing the delays taking place during the pre-market federal regulatory approval. The purpose of this provision is to restore the life of the patent that has been consumed during the pre-market approval process. This period cannot exceed five years. Under this provision, as the patent's expiry date 25 February 2003, neared, Pfizer claiming that regulatory approval had cut the life of the patent, managed to get a market exclusivity till 31 July 2006.

Dr. Reddy's Laboratories new drug application relied on the safety and efficacy data submitted to the FDA by Pfizer, which included the testing of both besylate and maleate salts. Dr. Reddy's however, argue that although both products have identical "active moiety", Pfizer's term extension is limited only to amlodipine besylate salt for which it had obtained approval. Pfizer Inc argued that the patent term extension itself contemplated that a therapeutic product could be administered as a "salt or ester of the active ingredient" and the extension is not defeated by just changing the salt or ester.

The District Court however held that the term extension is limited to amlodipine besylate, and that although amlodipine maleate is covered by the claims, it is not subject to the extended term. The court reasoned that the statute limits the term extension to the first permitted commercial marketing or use of the product, and that was

only amlodipine besylate.

Pfizer, however, in its appeal to the Federal Court argued that commercial marketing and use of amlodipine maleate marketed by Dr. Reddy's are the same as that of Pfizer's. Pfizer also pointed out that the therapeutically active ingredient is amlodipine, whether it is administered as besylate salt or maleate salt. Pfizer contended that if changing the derivative, removes the amlodipine from the patent term extension benefit to the patentee, then it also removes the counterpart benefits to the generic producer Dr. Reddy's.

The term "drug product" according to the Federal Food, Drug and Cosmetic Act means the active ingredient of –

- (a) a new drug, antibiotic drug, or human biological product or
- (b) a new animal drug,

including any salt or ester of the active ingredient, as a single entity or in combination with another active ingredient. The FDA has defined "active moiety" as the "molecule or ion, excluding those appended portions of the molecule that cause the drug to an ester or salt, responsible for the physiological or pharmacological action of the drug substance".

The District Court misconstrued the statute, in holding that the extended patent term did not cover any amlodipine salts except besylate. The Act by its terms extended the term of the patent for the registered uses of the drug product including its salt esters. The Federal Court however ruling in Pfizer's favour held that the extended term of the '909 patent covers amlodipine and any salt or ester as provided by the FDA's definition of the drug product. The extension is not limited to the besylate salt of amlodipine and the judgement of non-infringement by Dr. Reddy's in the district court is reversed.

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Litigation Watch

On 21 May 2004, the Supreme Court of Canada released its decision in the Canadian case of Monsanto v Schmeiser dismissing, in part, an appeal from the Federal Court of Appeal. The majority of the Supreme Court, in a 5-4 decision, upheld the findings of the lower Courts that the claims in issue, directed to modified genes and plant cells containing the modified genes (but not to whole plants), were valid and infringed by the cultivation of plants containing the patented genes and composed of patented cells.

Patent World, June 2004

Japanese newspaper 'The Yomiuri Shimbun' lost its suit against a website which was reproducing its headlines. The Tokyo District Court's ruling was that using headlines that are open to public on the internet without authorization did not constitute copyright violation. The Judge added that the headlines were created within 25 characters, and either stated objective facts, or used only short qualifying words, and cannot be described as creative expression.

Copyright World, April 2004

Two archives, 'The Internet Archive' and 'Prelinger Associates' have asked the US District Court for declaratory judgment to hold that the statutes extending copyright terms unconditionally are unconstitutional under the Free Speech Clause of the First Amendment. The complaint is that the law prevents from archiving, preserving or building upon the digital environment where the author has no interest in controlling the work. The plaintiffs claim that the burden of copyright regulation extends to work whether or not the original author has any need of continuing protection, which blocks the cultivation of culture and spread of knowledge.

Copyright World, April 2004

Stephen Slesinger Inc (SSI) had filed complaint against Walt Disney

in 1991, claiming that the company had not paid royalties on unreported software and video sales of Winnie the Pooh. The long running lawsuit has been dismissed with prejudice by Judge. The Judge ruled that SSI lied and stole evidence and that its actions threatened the integrity of the legal system. Slesinger is appealing against the judgment.

Copyright World, April 2004

The Canadian Supreme Court has ruled against the publishers who filed for copyright infringement against the Law Society of Upper Canada for providing request-based photocopy service to law Society members. The Supreme Court concluded that the Law Society did not infringe when it provided single copies because of fair dealing provisions (use of copyrighted works for the purpose of research or private study) in the Copyright Act.

Copyright World, April 2004

The Implementing Regulations of Saudi Arabia's Copyright Law have been approved by the Ministry of Culture and Information. The Regulations will come into effect two months after publication in the Official Gazette of the Kingdom of Saudi Arabia. Penalties for copyright infringement includes fines up to 500,000 Saudi Riyals, the closure of the infringing company, confiscation of the works in question and prison sentences up to six months.

Copyright World, June 2004

Sydney Grant Priscott has become the first person to be sentenced to prison for offences against the Australian Copyright Act. Mr. Priscott, 53, was found guilty of importing, processing and exposing for sale counterfeit DVDs. Mr. Priscott, was handed an AUS\$1500 fine, nine months imprisonment with three months to serve and a five year good behavior bond.

Copyright World, June 2004

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Domestic News

Drug major Lupin Laboratories has entered into an alliance with Ind-Swift for marketing its anti-diarrhoeal/anthelmintic drug – Nitazoxanide – in India under the brand name Nizonide. Also, Ind-Swift, which holds the IPRs of the product, will market it in the country, but under a separate name- Netazox.

Business Standard, 11 July 2004

Phonographic Performance Ltd (PPL), the copyright society that administers the broadcasting and public performance rights of its member music companies, has said that the use of music at public places (workplaces, pubs, cafes etc.) is illegal. Corporates such as Raymond, Reliance, Standard Chartered Bank, Global Trust Bank, Café Coffee Day, and Barista are among those who have formally sought a license but these are very few in number. The PPL has joined hands with NASSCOM to spread awareness about copyright infringement and have asked broadcasters to stop using music of member companies in television serials without license.

Business Line 14, June 2004

National Dairy Research Institute, Bangalore, organized a workshop on 'Patenting in foods and ingredients' in which the need for patenting in dairy product was underscored. President of NDRI Alumni Association informed that five dairy products including 'payasam' and 'belgaum kunda' had been sent for patenting and three more products would be sent for patenting by the year-end. The workshop was sponsored by the PFC/TIFAC.

Deccan Herald, 25 June 2004

Value arbitrage is more important than cost arbitrage that US companies get when they partner with Indian companies in drug

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Patents for Opposition

The following patent applications have been accepted by the Patent Office and published in the Gazette of India. These can now be opposed by filing opposition applications within a period of four months from the dates given. Six digit numbers allotted after acceptance by the Patent Office are given before the applicant names and patent application numbers given in brackets. Names of the branches of the Patent Office are denoted in the application number, e.g. 'Bom' for Bombay branch. An opposition application should be submitted at the appropriate office where the concerned application was originally filed.

PATENT APPLICANTS

May 1, 2004

192531. The Regents Of The University United States Of America (914/DEL/95)

192532. Asea Brown Boveri Sweden (1840/DEL/95)

192533. Medinol Ltd Israel (2102/DEL/95)

192534. Stanadyne Automotive United States Of America (756/DEL/94)

192535. The Chief Controller Research And Development Min. Of Defense India (1629/DEL/94)

192536. Magotteau International Belgium (1480/DEL/94)

192537. Honda Giken Kogyo Kabushiki Kaisha Japan (2264/DEL/95)

192538. Intel Corporation United States Of America (2127/DEL/95)

192539. Praxair Technology Inc United States Of America (1814/DEL/95)

192540. Surjit Singh Mann New Delhi (1131/DEL/95)

192541. Engineers India Limited Gurgaon (2487/DEL/95)

192542. Dunlop Aerospace Limited UK (1668/DEL/95)

192543. Indian Institute Of Technology New Delhi (2183/DEL/95)

192544. Council Of Scientific And Industrial Research New Delhi (2136/DEL/95)

192545. Lenzing Akriegesellschaft Austria (2331/DEL/95)

192546. Interbold United States Of America And SSTI Corporation United States Of America (1072/DEL/95)

192547. Council Of Scientific And Industrial Research New Delhi (2470/DEL/95)

192548. The Chief Controller Research Development M/O Defence India (101/DEL/95)

192549. Sonja Sandin United States Of America (683/DEL/95)

INVENTION

An electrically regeneratable electrochemical cell

A device for control of high voltage direct current transmission installation

A ballon catheter and a method of manufacture thereof

A fuel injection pump

A process for manufacturing rods strips and sheets from the machined turnings of titanium

Method of manufacturing a bimetallic grinding wheel

A battery case mounting device for a motor driven vehicle

An apparatus for regulating voltage in computer system

Structured packing with improved capacity for rectification systems

A novel metallic amido sulphate electrolyte composition

Viewing device for use with combustion chambers

Selective braking apparatus for an aircraft

A real time matched complementary speed control system

A device for excitation and detection of magnetic resonance using orthogonal transmitter probe coils

Spinning device

A passbook transport apparatus

An improved process for the preparation of mixture of guaiacol and p methoxy phenol

A process for the preparation of a combustible tube for use in a primer

A beverage infusion device for beverage infusion

Contd from.../

Domestic News

discovery and development, according to CII National Committee on Biotechnology. Speaking in a session on 'The way ahead for partnerships with Indian Biotech,' organized by CII in San Fransisco, Kiran Majumdar Shaw, MD, Biocon India said that "while cost arbitrage is a factor of three-five in India, value arbitrage is a factor of three in terms of reduced time lines. These together leads to value added arbitrage of six-eight." DBT Secretary Mr. MK Khan said the govt. was taking several initiatives o create and facilitate an environment of innovation and research culture in the country and it is committed to WTO and TRIPS for protection of intellectual property.

The Financial Express, 8, June 2004

Punjab Government Introduces IPR Courses

Patent Information Centre set up by PFC, TIFAC at Punjab State Council for Science & Technology (PSCST), Chandigarh has been instrumental in motivating the Department of Technical Education and Industrial Training, Govt. of Punjab to introduce the concept of Intellectual Property Rights (IPRs) in the syllabus of technical & vocational education and industrial training institutions of the State. The department proposes to include six lectures on IPRs in ITI courses (in two years), 24 lectures in diploma courses (in three years) and 40 lectures in degree courses (in four years).

The Himalayan Drug Company does not intend to patent its herbal pharmaceutical products according to Himalayan's President & CEO. They would like to keep it trade secret.

Business Line , 3, June 2004

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192550. Council Of Scientific And Industrial Research New Delhi (1798/DEL/95)	An improved process for preparation of lead magnesium niobate based high permittivity ceramics for multilayer capacitors
192551. International Business Machines Corporation United States Of America (07/DEL/95)	A method for preparing a copper containing printed circuit board
192552. Sony Corporation Japan (1267/DEL/95)	A signal modulating apparatus for converting an m bit based data string into an n bit based code string
192553. Council Of Scientific And Industrial Research New Delhi (1246/DEL/95)	An integral electric heater element
192554. Cibe Speciality Chemicals Holding Inc Switzerland (1639/DEL/95)	Flame resistant glass fiber reinforced polyamide resin composition and process for preparing the same
192555. The Lubrizol Corporation United States Of America (1901/DEL/95)	A non explosive water in oil emulsion fertilizer composition
192556. Fosbel Intellectual Ag Switzerland (2163/DEL/95)	A process of preparing a crystalline siliceous refractory mass
192557. Sony Corporation Japan (1437/DEL/95)	An apparatus for recognizing a pattern and a method employing the same
192558. Council Of Scientific And Industrial Research New Delhi (1095/DEL/95)	An improved process for the conversion of esters and amides to corresponding alcohols and amines
192559. Amit Mohan Srivastava India (2124/DEL/95)	An automatic pump operating device
192560. Courtaulds Packaging Limited United Kingdom (2171/DEL/95)	A method of making moulding composition for forming an article
192561. Foster Wheeler Energy International Inc USA (1101/CAL/97)	A fluidized bed combustion system
192562. Samsung Electronics Co Ltd Korea (1682/CAL/97)	Optical fibre array module and fabrication method
192563. Daewoo Electronics Corporation Korea (1060/CAL/97)	An apparatus for encoding a contour of an object
192564. Merck Patent Gesellschaft Mit Beschränkter Haftung Germany (785/CAL/97)	Process for the preparation of multilayer interference pigment
192565. Emami Limited India (211/CAL/02)	A process for preparing cool shampoo
192566. Breat Sl Spain (389/CAL/00)	A method for the production of honeycombs for beekeeping and apparatus therefore
192567. W Schlafhorst Ag Co Germany (1464/CAL/97)	Conveyor system for a textile machine
192568. Matsushita Electric Industrial Co Ltd Japan (1339/CAL/97)	A CDMA system mobile communication receiver and a method for concurrently demodulating signals
192569. Hallmark Aquaequipment Private Limited India, 1351/CAL/97)	A pipe coupling particularly for a sprinkler irrigation system
192570. Dorma Gmbh Co Kg Germany (960/CAL/97)	Sliding wall with motorized drive for an automatic dividing wall system
192571. Daewoo Electronics Corporation Korea (1058/CAL/97)	Apparatus for generating air curtain in a refrigerator
192572. Metal Coating International Inc USA (900/CAL/97)	Water reducible chromium free coating composition for providing corrosion protection to a substrate
192573. Siemens Aktiengesellschaft Germany (1285/CAL/97)	An apparatus for intensity gauging of an optical sensor for measuring fluctuating electrical and or magnetic field intensity
192574. Dainippon Ink And Chemicals Inc Japan (1445/CAL/97)	A process for producing a disazo pigment composition
192575. Evergreen Solar Inc USA(1217/CAL/97)	A laminated solar cell module and method for its manufacture

International News

At the 2004 Juno Awards, a Canadian music industry award ceremony held by the Canadian Recording Industry Association (CRIA), both the Prime Minister, and the Federal Heritage Minister, tried to reassure the audience that the Govt. would be taking action to protect Canadian recording artists from copyright infringement. The Copyright Board of Canada had recently ruled that CRIA had not proved that file-sharing constituted copyright violation. Though the ministers did not provide any details on what the govt. plans to do, the Prime Minister informed that the Commons committee on copyright was looking into the issue.

Copyright World, April 2004

Broadcaster MTV has agreed to return collective negotiations with independent record companies. The company which has a number of channels that show music videos had previously said that it will only do individual deals with record companies. MTV believes that collective licensing is not the best option but it is willing to resume negotiations with Video Performance Limited, the body that negotiates on behalf of the record companies.

Copyright World, April 2004

An online amnesty registry for intellectual property has been launched by the Institute for Global Intellectual Property Protection (IGIPP), Washington, DC. This service will encourage companies to use the registry rather than litigation to slow rampant intellectual property abuse. IGIPP members can list description of their trademarks, patents and copyrighted works at the website, which is searchable, along with any details on their amnesty program.

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192576. Samsung Electronics Co Ltd Korea (1301/CAL/97) Apparatus for stabilizing cut off frequency using transconductance

192577. E I Du Pont De Nemours And Company United States Of America (103/CAL/97) A multifilament yarn of a polyamide

192578. Knecht Filter Werke Gmbh Germany (1082/CAL/97) Latching connection for two parts which can be rotated with respect to one another

192579. Daewoo Electronics Corporation Korea (1088/CAL/97) An apparatus for coding a contour of an object employing temporal correlation thereof

192580. Steel Authority Of India Ltd New Delhi (258/CAL/97) A method of producing improved coke fuel for sintering iron ores

May 8, 2004

192581. Mcd Remott Technology Inc USA (1651/CAL/98) A method of simultaneously chromizing a plurality of ferrous based parts

192582. Samsung Electronics Co Ltd Korea (1499/CAL/97) A circuit for atleast substantially eliminating atleast one external interference signal from a radio communications signal

192583. Portals Limited United Kingdom (330/CAL/01) A method for producing security document

192584. Unisearch Limited Australia (1666/CAL/98) A quantum computer device for performing quantum computations and a method for its initialization

192585. Matsushita Electric Industrial Co Ltd Japan (2009/CAL/97) Optical disc having oscillating lands and grooves

192586. Indian Institute Of Technology Kharagpur India (711/CAL/00) A process for enzymatic polishing of rice

192587. Intel Corporation USA (270/CAL/99) A digital camera and a method of calibration thereof

192588. National University Of Singapore Singapore (00657/KOLNP/2003) Method and apparatus for managing process transitions

192589. Patent Treuhand Gesellschaft Fur Elektrische Gluehlampen Mbh Germany (1580/CAL/97) Low pressure discharge lamp

192590. Intel Corporation USA (IN/PCT/2002/1320) A method for providing content interruptions

192591. Siemens Aktiengesellschaft Germany (1997/CAL/96) Recooling system

192592. Sinon Corporation Taiwan (606/CAL/01) Process for preparing imidachloprid 1 2 chloro 5 pyridylmethyl 2 nitroimino imidazolidine

192593. Torrent Pharmaceutical Ltd India (41/CAL/02) A process for preparing benzofuroxan derivatives

192594. S C Johnson Son Inc USA (1710/CAL/97) Bait station for crawling insects

192595. Tetra Laval Holdings And Finance S A Switzerland (2204/CAL/96) A device for checking patterns disposed on a material strip

192596. Umicore Belgium (256/CAL/97) A process for batchwise hot dip galvanizing steel articles that may contain silicon and or phosphorus

192597. Matsushita Electric Industrial Co Ltd Japan (1383/CAL/97) An apparatus for assembling cathode ray tube

192598. Emitec Gesellschaft Fur Emissionstechnologie Bmh Germany (1923/CAL/97) Method for manufacturing a brazed metallic honeycomb body

192599. Siemens Aktiengesellschaft Germany (1472/CAL/97) Circuit breaker device with isolating functions

192600. Hoechst Celanese Corporation USA (1852/CAL/97) An improved process for the carbonylation of methanol to produce acetic acid

192601. Neatea International Ltd USA (1024/CAL/97) Beverage infusion device

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International News

The website can be found at www.amnestyprogram.org.

Copyright World, April 2004

A new copyright Bill which will increase the penalties for peer-to-peer (P2P) piracy has been passed by the House of Representatives Judiciary Intellectual Property subcommittee, US. The Piracy Deterrence and Education Act, if passed by the House and the Senate, would introduce a prison sentence for P2P users that make 1,000 or more copyrighted works (or works with a combined retail value of more than US\$10,000) available to other users.

Copyright World, April 2004

A revision to the Japanese Copyright Law that would restrict parallel importing has been endorsed by the education and culture Committee of the Lower House in Tokyo. The revision is designed to halt the import of Japanese music CDs produced overseas and sold at a lower price than domestic versions. The CD importers would face penalties if the benefit of a recording company is unreasonably violated.

Copyright World, June 2004

A new piracy law passed by the Italian parliament introduces heavy fines and the risk of up to three years imprisonment for illegal file sharers. Illegal use of internet for commercial purposes can put the person in jail. The Italian Culture Ministry says the law is aimed at encouraging the development of a legal market for artistic products.

Copyright World, June 2004

Pharmaceutical companies wishing to scan and email articles from books, magazines, journals and periodicals will be able to make unlimited copies following the

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192602. The Babcock And Wilcox Company USA (1264/CAL/97)	An pulverized coal burner and method of reducing emissions and unburned fuel losses in a pulverized coal burner
192603. E I Du Pont De Nemours And Company United States Of America (1052/CAL/97)	Method for continuously preparing polyaluminosilicate microgel and an apparatus for the same
192604. Fried Krupp Ag Hoesch Krupp Germany (708/CAL/97)	A connecting structure for connection of trapezoidal steel sheeting elements with a supporting structure in a roofing or ceiling slab in the form of a composite concrete steel construction
192605. Borealis Polymers Finland (1183/CAL/97)	Antifouling coating for reactors vessels lines or their equipment
192606. Hoechst Celanese Corporation USA (1184/CAL/97)	A process for the preparing of a catalyst for production of vinyl acetate
192607. The Tata Iron And Steel Co Ltd India (1986/CAL/96)	A system for coaltar injection in a blast furnace
192608. Pohang Iron Steel Co Ltd Korea (2257/CAL/96)	A method for manufacturing a hot metal using a fine iron ore and by way of smelting reducing process
192609. Glaxogroup Limited UK (1007/CAL/98)	A dispenser for dispensing medicament
192610. Mitsuba Corporation Japan (415/CAL/98)	A starter for an internal combustion engine
192611. Foster Wheeler Energia Oy Finland (1060/MAS/95)	A circulating fluidized bed reactor system
192612. Innova Patent Gmbh Austria (445/MAS/96)	A cable car system
192613. Georg Fischer Waga N V, The Netherlands (935/MAS/96)	A coupling device for a tube comprising a sleeve part
192614. Owens Brockway Glass Container Inc USA (837/MAS/96)	A forehearth for cooling molten glass from a glass melting furnace
192615. Nipro Corporation Japan (243/MAS/96)	An electrically heated insulating pot
192616. Asturiana De Zinc S A Spain (1670/MAS/96)	A machine for eliminating impurities during casting of metals
192617. Qualcomm Incorporated State USA (810/MAS/00)	A base station transceiver system
192618. Ojila Sundararama Reddi India (365/MAS/01)	An enzymatic process for the production of ribavirin
192619. Societe Des Produits Nestle Sa A Swiss Body Corporate Switzerland (555/MAS/01)	A process for preparing a candy product with a fat based coating
192620. Madhavan Parthasarathy USA (53/MAS/01)	Process for producing a stabilized natural sugar cane juice
192621. Alstom Limited India (845/MAS/96)	A fuse base for mounting din type of fuse links
192622. Telikicherla Kandalam Ramanuja Charyulu India (384/MAS/96)	A closed loop circulating water system for thermal power plants
192623. Akzo Nobel N V The Netherlands (515/MAS/96)	Cellulose filament yarn and a cord made thereof
192624. Notetry Limited Of British Company United Kingdom(36/MAS/96)	A dust separating apparatus and a vacuum cleaner incorporating the same
192625. Kiwi Ttk Limited India (1898/MAS/96)	Child proof cap
192626. Savio Macchine Tessili SPA Italy (402/MAS/96)	A device for monitoring and controlling the tension of a yarn
192627. Dana Corporation USA (294/MAS/96)	A piston ring and a method of producing the same
192628. Societe Des Produits Nestle S A Switzerland 893/MAS/00)	A device for preparing beverages and a method thereof

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International News

introduction of a new licensing Agency. The pharma license is the first blanket licensing agreement that allows systematic electronic storage, enabling companies to make articles available on an intranet server for staff. The fee is based on the number of professional employees in the licensed organization

Patent World, June 2004

New initiatives led to 40% increase in seizures of counterfeit music products in 2003 according to the Recording Industry Association of America's (RIAA) annual review of enforcement efforts against physical goods piracy. Pirated music sold on rewritable CDs accounted for more than five million of seized CDs. Nearly 800,000 counterfeit CDs were seized; a 2195 growth from 2002 to 2003. The RIAA is targeting areas where illicit music is 'rampant': flea markets, retail outlets and on streets.

Copyright World, June 2004

A majority of member state delegations of the Competitive Council, have reached an agreement on a 'common position' on the Computer implemented inventions Directive. Having accepted the Irish Presidency compromise, with some amendments, the Council will formally approve the draft at its next meeting. The Directive will then pass to the European Parliament, which will give its second reading in September.

The provisional information released from the Council's meeting states: "The agreed text contains provisions...for patentability of computer-implemented inventions stipulating, *inter alia*, that a computer program as such can not constitute a patentable invention. For [an]...invention to be patentable it must be susceptible of industrial

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192629. Sree Chitra Tirunal Institute For Medical Science And Technology India (173/MAS/00)	Preparation of a composite bioceramic material for biomedical applications
192630. Ojila Sundararama Reddi India (366/MAS/01)	An enzymatic process for the production of 7 amino cephalosporanic acid from cephalosporin C
192631. Maschinenfabrik Rieter Ag Switzerland (1641/MAS/95)	A ring spinning frame with a ring rail
192632. Institut Francais Du Petrole France (976/MAS/95)	A two stroke engine
192633. Duraiswamy Narayanaswamy Duraiswamy Natarajan And Duraiswamy Radhakrishnan India, 1327/MAS/95)	Improvised batch type grains roaster
192634. Palitex Project Company Gmbh Germany (1446/MAS/95)	Device for change over switching of electric motors
192635. Samsung Electronics Co Ltd Korea (1173/MAS/96)	An apparatus for reducing supply voltage drops which occur during refreshes to a first memory bank and a second memory bank
192636. Maschinenfabrik Reinhausen Gmbh Germany (464/MAS/96)	A load diverter switch
192637. Mitsubishi Denki Kabushiki Kaisha Japan (783/MAS/96)	A rotator for dynamoelectric machine and a method for manufacturing the same
192638. ABB Research Ltd Switzerland (916/MAS/96)	A power semiconductor module and a method for producing the same
192639. Tsubakimoto Chain Co Japan (179/MAS/96)	A rolled part for a chain and a method of manufacturing the same
192640. Toray Industries Inc Japan (320/MAS/96)	A process for producing xylene
192641. Schlumberger Industries S R L Italy (1692/MAS/95)	A single jet liquid meter
192642. Japan Crown Cork Co Ltd Japan (323/MAS/96)	Resin cap
192643. Cabot Corporation USA (1651/MAS/95)	A method of producing a non aqueous coating or a non aqueous ink composition
192644. Kimberly Clark Worldwide Incorporated USA (1658/MAS/95)	A mechanical fastening tab
192645. Schneider Electric Sa France (1343/MAS/95)	An electrical switch designed to perform breaking in an electrical circuit
192646. Jobst Ulrich Gellert Canada (1086/MAS/95)	A method of manufacturing an integral heated injection molding nozzle
192647. St Gobain Norton Industrial Ceramics Corporation USA(1122/MAS/95)	A process for the production of shaped ceramic articles
192648. Leonhard Kurz Gmbh Co Germany (1167/MAS/95)	Visually identifiable optical element
192649. Foster Wheeler Energia Oy Finland (1240/MAS/95)	A circulating fluidized bed reactor
192650. Qualcomm Inc USA (1543/MAS/95)	A base station transceiver of a communication system

May 15, 2004

192651. Kawaso Electric Industrial Co Ltd, Japan (1032/MAS/95)	Temperature sensor element in temperature measuring device
192652. Mitsubishi Denki Kabushiki Kaisha, Japan (1102/MAS/95)	Stator of magnet type rotational electrical machine and production method thereof
192653. Mitsubishi Denki Kabushiki Kaisha, Japan (966/MAS/95)	One way clutch
192654. Schneider Electric France (1205/MAS/95)	A trip device comprising at least one current transformer
192655. Jobst Ulrich Gellert Canada (1302/MAS/95)	An injection molding nozzle

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International News

implication and involve an inventive step.

Patent World, June 2004

The Canadian Senate has passed Bill C-9, which allows the export of affordable generic medicines to developing countries. Whilst Canada is the first country to implement the World Trade Organization's (WTO) 2003 decision to waive restrictions to export of generic medicines, the final version contains a number of restrictions. The Bill has many weaknesses such as limited list of medicines for export, vague conditions on countries importing medicines from generic suppliers, and provisions that give brand-name pharmaceutical companies privileges beyond anything negotiated at the WTO.

Patent World, June 2004

The Standing Committee on the Law of Patents (SCP), which is made up of representatives of member states of the WIPO, has failed to reach an agreement as to the scope of its future work at a meeting held from 10 to 14 May. The SCP is responsible for reviewing provisions of a draft Substantive Patent Law Treaty (SPLT).

The SCP discussed whether priority should be given to a first 'package' of provisions: prior art, grace period, novelty and inventive step (non-obviousness). The US, Japan and the EPO, had suggested this approach, which was backed by many delegations. The opposing delegations suggested that all the provisions in the draft should be considered together. The suggestion was not taken forward, as some delegations considered that the SCP should not tackle the issues of genetic resources and traditional knowledge until the Intergovernmental Committee on

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192656. Fisher Rosemount Systems Inc USA (1361/MAS/95)	A distributed control system
192657. India Nippon Electricals Limited India (1421/MAS/95)	An ignition system for a petrol engine
192658. Enexus Corporation USA (1322/MAS/95)	An apparatus and a process for coating a substrate with electrically charged resinous powder particles
192659. Schneider Electric France (1341/MAS/95)	An electromagnetic contactor device
192660. Shell Internationale Research Maatschappij The Netherlands (1140/MAS/95)	A process for the thermal cracking of a residual hydrocarbon oil
192661. Mitutoyo Corporation, Japan (1491/MAS/95)	Capacitance type displacement measuring device
192662. Ramasamy Chettiar Sennaiyan Chettiar Ponnusamy Chettiar India (772/MAS/95)	An air pump
192663. Robert Bosch Gmbh Postfach Germany (1125/MAS/95)	A tubular bag machine
192664. Leonhard Kurz Gmbh & Co Germany And Deutsche Bundesbank Germany (671/MAS/95)	Structure arrangement having an optical diffraction effect
192665. Cabot Corporation USA (1649/MAS/95)	A process for preparing rubber composition
192666. Haldor Topsoe Denmark (775/MAS/95)	A waste heat boiler for cooling a hot process stream
192667. Qualcomm Incorporated USA (846/MAS/95)	An apparatus for controlling transmission power in a variable rate communication system
192668. Norton Company USA (1708/MAS/95)	A coated abrasive material having length dimension & width dimension
192669. Umesh Raichand Shoney India (915/MAS/95)	A clutch release bearing
192670. Jippu Jacob And Joby Bastian India (1096/MAS/95)	A coconut husking tool
192671. Qualcomm Incorporated USA (848/MAS/95)	An apparatus for selecting an encoding rate from a predetermined set of encoding rates for encoding a frame of speech
192672. Maschinenfabrik Rieter Ag Klostertrasse Switzerland (1109/MAS/95)	A spinning device
192673. Design And Manufacturing Solutions Inc Florida (1702/MAS/95)	A tunable damping system for reducing vibrations in machining processes
192674. Yamaha Hatsudoki Kabushiki Kaisha Japan (1531/MAS/95)	An internal combustion engine
192675. Zimmermann & Jansen Germany (616/MAS/95)	A gate valve
192676. Qualcomm Incorporated USA (1551/MAS/95)	An apparatus to increase a radio receivers immunity to radio frequency interference
192677. Yamauchi Corporation Japan (1587/MAS/95)	Resin roll for calendaring magnetic recording medium and a method of manufacturing the same
192678. Honda Giken Kogyo Kabushiki Kaisha Japan (988/MAS/99)	An exhaust gas purifying device
192679. Schneider Electric France (1342/MAS/95)	A differential switch designed to be connected in series to one or more protective elements
192680. Ralph Mullenberg Im Wiesengrund Germany (958/MAS/95)	Clamp system
192681. Qualcomm Incorporated USA (849/MAS/95)	An apparatus for determining an encoding rate for an input signal in a variable rate vocoder
192682. Robert Bosch Germany (1126/MAS/95)	An injection nozzle and a process for manufacturing the same

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International News

IP and Genetic Resources, Traditional Knowledge and Folklore had finished reviewing the matter. For the remainder of the session the SCP discussed the draft Articles and corresponding draft Rules and draft Practice Guidelines.

Patent World, June 2004

Concerned software engineers have started a fund for Isamu Kaneko, a research associate of Tokyo university, who was arrested for creating the file-sharing software, 'Winnie'. Mr. Kaneko was charged of 'assisting' the illegal file sharing when two people were claimed to upload copyrighted material using Winnie. The supporters argue that Mr. Kaneko created the software for research purposes and warned that Winnie should not be used to share illegal material.

Copyright world, June 2004

A leading proteomics company announces that it has secured the exclusive worldwide licensing rights from Baylor College of Medicine for serum Proteomics methods and biomarkers for diagnosis of neurodegenerative diseases, differential diagnosis of Alzheimer's, Parkinson's, ALS diseases, and other motor neuron and neurological disorders. The technology encompassing this agreement was co-developed by the scientific team at Power3 Medical under the leadership of Dr. Ira L. Goldkorn and the team at Baylor College of Medicine under the direction of the world renowned neurologist Dr. Stanley Appel. The test employs the company's patent pending proteomic methods of monitor the concentrations of a panel of proteins in the blood, to distinguish patients with Alzheimer's Lou Gehrig's (A:S), and Parkinson's diseases from each other as well as from normal individuals and patients with other neurological disorders.

192683. Bracco Research Switzerland (1201/MAS/95)	A method of producing liposome vesicles
192684. Acordis Industrial Fibers Germany (1452/MAS/95)	A process for the preparation of polyesters and copolyesters
192685. Usinor Sacilor (Societi Anonyme) And Thyssen Stahl Aktiengesellschaft Kaiser Germany (1453/MAS/95)	A device for supporting a sidewall of a plant for the continuous twin roll casting of thin metal products
192686. Kimberly Clark Worldwide Inc USA (1485/MAS/95)	A process and an article for producing disinfected water
192687. Ciba Specialty Chemicals Water Treatments Limited England (1505/MAS/95)	A deinking process
192688. Subramaniam Charulatha, India (1566/MAS/95)	A multi volume measuring bottle
192689. Dr Garmella Bhaskar Rao Mr Angappa Mudaliar Ponraj Mr Thavitturpalayam Krishnan Rajendren, India (112/MAS/00)	A process for the extraction of dietary fibre oleoresin and fixed oils from the seeds of fenugreek (<i>trigonella foenum graecum</i>) and an extraction module apparatus for the same
192690. F Hoffmann La Roche Ag Switzerland (849/MAS/00)	A fermentation assembly
192691. Mitsubishi Denki Kabushiki Kaisha Japan (1253/MAS/95)	A semi conductor device and a method of producing the same
192692. International Business Machine Corporation USA (805/MAS/95)	Electronic circuit apparatus
192693. Linde Aktiengesellschaft , Germany (1599/MAS/95)	A process for producing crude argon by low temperature separation of air and an apparatus for the same
192694. Daewoo Electronics Co Ltd Korea (1639/MAS/95)	Microwave oven door
192695. Syed Abdul Latheef & Syed Abdul Hafiz India (1669/MAS/95)	Frustum con block
192696. Yamauchi Corporation Japan (1166/MAS/95)	A cushioning material for forming press
192697. Leonhard Kurz Gmbh & Co Germany (1255/MAS/95)	A stamping roller for a stamping apparatus
192698. Yamaha Hatsudoki Kabushiki Kaisha Japan (1532/MAS/95)	An internal combustion engine
192699. Fisher Rosemount Systems Inc USA (1362/MAS/95)	A process control loop
192700. Ebara Corporation Japan (1609/MAS/95)	An apparatus for treating waste gases
192701. Hindustan Lever Ltd. India (782/BOM/98)	Improved solid detergent composition
192702. Hindustan Lever Ltd. India (749/BOM/98)	A portable freezer cabinet
192703. Surendra H Shah Mumbai (723/BOM/98)	An electro thermal control device
192704. Central Institute For Research India (569/BOM/98)	A process for the preparation of peptone from cottonseed meal by enzymatic hydrolysis
192705. Ritesh Harishchandra Kolte India (831/BOM/98)	An improved solenoid
192706. Hindustan Lever Limited India (803/BOM/98)	Improved detergent bar composition
192707. Department Of Atomic Energy India (729/BOM/98)	A process for the preparation of antisera of protein named pv2 for detection of malaria
192708. Abhay Vishwas Ranade India (588/BOM/98)	An improved oil gun with flexible hoses mounted in a stationary guide for use in boilers or steam generating units of thermal power stations

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Litigation Watch

Consumer organization, Test-Achats' has lost its case against four record companies in Belgium, EMI, Sony, Universal and BMG. Test-Achats has filed its suit challenging the use of technical protection measures on CDs. It asked the court to prevent the companies from using copy protection technology on their CDs and for all copy-controlled CDs on the market to be removed. The international federation believes that the European Law clearly gives copyright holders the right to protect their works through technical means. Test-Achats plans to appeal.

Copyright World, June 2004

The US Court of Appeals has reversed and remanded for further proceedings a summary judgement of invalidity in Knoll Pharmaceutical Company v Teva Pharmaceuticals. Knoll had received marketing approval from the FDA for its patent on "methods and compositions for treating pain by administering a combination of hydrocondone and ibuprofen..." in 1997. In 2000, Teva filed an abbreviated New Drug Application, asserting that the Knoll' patent was invalid, unenforceable and/or not infringed. The District Court finally ruled that the Knoll' patent was invalid on the grounds of obviousness.

Patent World, June 2004

The European Patent Office (EPO) has revoked the patent relating to "a method of testing for predisposition for breast and ovarian cancer", following opposition proceedings. The patent, awarded to US company Myriad Genetics in January 2001, was challenged by a number of scientific groups in Europe from countries such as France, Belgium and Germany. A verbal ruling will be published in the next two to six months.

Patent World, June 2004

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192709. Hindustan Lever Limited India (556/BOM/98)	Brewing apparatus for making tea
192710. Hindustan Lever Limited India (647/BOM/98)	A fabric treatment composition
192711. Ketan Rajnibhai Patel & Milan Rajnibhai Patel India (57/MUM/02)	A novel method of preparation of diclofenac injection
192712. Luk Lamellen Und Kupplungsbaueinrichtungen Kg Germany (312/MUM/02)	Apparatus for damping torsional vibrations
192713. Hindustan Lever Limited India (189/BOM/99)	A single phase autophobic aerosol hairspray composition
192714. Winter Cvd Technik Germany (287/BOM/99)	Gem stone (portrait)
192715. Virendra Narandas India (351/BOM/99)	A process of manufacturing artificial wood
192716. Hindustan Lever Limited India (906/BOM/99)	Improved detergent bar composition and a process for manufacture
192717. Hindustan Lever Limited India (415/BOM/99)	Process for manufacturing a soap containing detergent composition
192718. Nippon Parkerizing Co Ltd Japan (412/BOM/98)	Lubricant composition for cold working of metallic material
192719. Tata Institute Of Research India (127/BOM/99)	Device for detection and acquisition of spatially and temporarily patterned signals from oral surface
192720. Neo Wires & Allied Products Pvt Ltd India (157/BOM/99)	A new enameling process for making a new enameled wire
192721. Exxon Chemical Patents Inc USA (IN/PCT/2000/0051)	A process for converting oxygenate to olefins with increased heat recovery and heat integration
192722. Denis Michel Ledoux Canada (IN/PCT/2000/0044)	A reverse osmosis electrostatic device for treating water
192723. Hindustan Lever Limited India (25/BOM/1999)	A process for preparing a laundry detergent or a fabric conditioning product
192724. Hindustan Lever Limited India (87/BOM/99)	A conditioning concentrate composition and a method of manufacturing the same
192725. Hindustan Lever Limited India (192/BOM/99)	An aqueous hair conditioning composition
192726. Jyoti Limited India (441/BOM/99)	A polyphase induction motor
192727. Shree Pacetronix Ltd India (83/BOM/99)	A steroid eluting packing lead
192728. Hindustan Lever Limited India (142/BOM/99)	Shampoo compositions
192729. Vora Nagindas Jamnadas India (539/BOM/99)	Lubricating oil cooling system in engine or like machines
192730. Chauhan Abhay Deo Singh & Jain Bhagchang Nathulalji Ankur India (196/BOM/99)	A gas air filtering system
192731. Council Of Scientific And Industrial Research New Delhi (1240/DEL/95)	A process for preparation of a fire protective coating for preventing spontaneous heating in coal mines
192732. Council Of Scientific And Industrial Research New Delhi (1791/DEL/95)	An improved process for the oxidation of cyclohexane to a mixture of cyclohexanone and cyclohexanol
192733. Council Of Scientific And Industrial Research New Delhi (206/DEL/00)	An improved method for enhanced oil recovery from oil seeds
192734. Council Of Scientific And Industrial Research New Delhi (3699/DEL/98)	A process for the preparation of a composition useful for extension of shelf life of horticultural agricultural products and other sea foods, based on chitosan and its derivatives
192735. Council Of Scientific And Industrial Research New Delhi (964/DEL/00)	An improved process for the preparation of 1 nitroanthraquinone

PFC on the move...

- One Patent Information Centre (PIC) was opened at Goa State Council for Science & Technology, Saligao, Bardez-Goa. DIRECTOR PFC and Chief Secretary, Government of Goa exchanged the MOU for the same on June 22, 2004 at Goa Science Centre, Miramar, Goa.

- PFC has organised four workshops in the Month of June 2004. First patent awareness workshop was organized at The HCM Rajasthan State Institute of Public Administration, Jaipur on June 1, 2004 for secretaries of government of Rajasthan and other IAS officers. This was organised in association with PIC Jaipur

The second workshop was organised on Geographical Indications at Shimla on June 18-19, 2004 in association with PIC, Shimla. This workshop was attended by the secretaries of the state government, representatives from associations for Kullu shawls and other articles which could be registered as GI and officers from other PICs. The third workshop was organised at Goa Science Centre, Miramar, Goa on June 22, 2004. The fourth workshop was organised at National Dairy Research Institute, Bangalore on June 24, 2004.

- Two patent awareness workshops were organised in the month of July, 2004. First one was organised at Indian Chemical Manufacturers Association (ICMA), Kolkata on July 2, 2004 in association with Patent Information Centre (PIC) Kolkata. The Second workshop was organised at Regional Research Station, Uchassi, Karnal on July 19, 2004.
- The 6th Interaction meeting of PICs in 17 states were organised at Raipur, Chattishgarh on July 29-30, 2004. This was attended by officials from 13 PICs.

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192736. Council Of Scientific And Industrial Research New Delhi (324/DEL/02)	A process for preparation of cholesterol lowering structured lipids containing omega 3 polyunsaturated fatty acids
192737. Council Of Scientific And Industrial Research New Delhi (265/DEL/02)	An improved process for preparation of proteolytic activity rich spice powder useful for tenderization of meat
192738. Council Of Scientific And Industrial Research New Delhi (230/DEL/02)	An improved process for the extraction of fin rays from dried shark fins
192739. Council Of Scientific And Industrial Research New Delhi (295/DEL/02)	An improved process for preparation of nicotinamides
192740. Council Of Scientific And Industrial Research New Delhi (1062/DEL/00)	A process for the preparation of purified penicillinase
192741. The Lubrizol Corporation United States Of America (1163/DEL/95)	A lubricant fuel composition for two stroke cycle engines
192742. Tencel Limited United Kingdom (762/DEL/02)	Method of creating a commuted wood fibre feedstock
192743. Smithkline Beecham Corporation United States Of America (0058/DEL/02)	A novel process for the preparation of eprosartan
192744. LG Chemical Ltd Korea (183/DEL/02)	The production of a 3-aminomethyl-4-alkoxyimino pyrrolidine
192745. The Procter & Gamble Company United States Of America (201/DEL/02)	An absorbent article
192746. Pfizer Products Inc United States Of America (447/DEL/00)	Process for preparing a-cyclopentyl-6-ethyl-3-(substituted)-5-8-dihydro-4h-1,2,3a,7,8-pentaaza-as-indacenes and intermediates useful therein
192747. Ranbaxy Laboratories Ltd India (459/DEL/02)	A novel method of stabilizing bupropion hydrochloride tablets
192748. Ranbaxy Laboratories Ltd India (778/DEL/00)	A process for preparation of once daily controlled release formulation of erythromycin a or its derivatives thereof
192749. Ranbaxy Laboratories Ltd India (1155/DEL/02)	A process for preparing a solid dosage form for the combination of biguanide and glitazone
192750. Ranbaxy Laboratories Ltd India (1170/DEL/00)	Process for the preparation of a fast dissolving dosage form
192751. Steel Authority Of India Limited Research & Dev Centre For Iron & Steel India (1419/DEL/95)	An improved process for production of ferrito-martensitic stainless steel plate
192752. Sony Corporation Japan (1191/DEL/95)	A non aqueous electrolyte secondary cell device
192753. Oea Inc Japan (1713/DEL/95)	Hybrid inflator for an automotive inflatable safety system
192754. Martec Recycling Corporation Canada (1634/DEL/95)	Process for making a heated asphalt surface and apparatus therefor

Ranbaxy has a Better Patent Portfolio

Ranbaxy filed 41 applications in respect of new chemical entities (NCE) in 2003 in many countries; 5 in India, 15 in USA, 2 in other countries. Nineteen (19) applications were PCT applications. The company had its focus on developing environmentally friendly innovative and cost effective technologies for Active Pharmaceutical Ingredients (API). A total of 41 applications were filed related to synthesis and synthetic form of APIs.

19 applications were filed in the area of new drug discovery research (NDDR) and 43 for new dosage forms. The innovative R&D has been closely supported by introduction of new products; 39 new products and line extensions were delivered for the domestic market. The company filed 26 Abbreviated New Drug Applications (ANDA) in USA for Para IV certification. Applications for 85 products for certification were filed in Brazil, Russia, Ukraine, India and China, known 21 products are meant for Brazil, 21 for Russia and Ukraine, 35 for India and 8 for China. The company filed in all 936 applications for various products. Approval for 600 products were obtained by the company during 2003 in USA, Europe, BRIC countries and other countries. (Annual Report of Ranbaxy, 2003)

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- Case Law
- Patents for Opposition

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