BCA -DS 5 SEM IPR NOTES

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UNIT-2

TOPICS

- Overview and historical development of IPR, Berne convention & Paris convention.
- WIPO, WTO, GATT, TRIPS
- Novelty
- Utility
- Patent Act , Amendments of Patent Act
- Pharmaceutical Products and Process and Patent
- Pharmaceutical Protection
- Software patent
- Business Method
- Protection of plant varieties and farmers
- Right Act 2001
- Patenting of Micro-organism

HISTORY & EVOLUTION OF IPR

Intellectual Property law dates at least as far back as medieval Europe. The first known use of the term Intellectual Property dates back to the time, when an article published in the Monthly Review in 1769 used it as a phrase.

The history and origin of patents, copyrights, trademark and its emergence at global level have been explained further:

1. Origin And History Of Patents:

The origin of patents can be dated back to the year 1331. On 16th July, 1331, King Edward III of England created history by providing King's protection through a letter's

patent. It was given to a Flemish weaver of woolen clothes by the name John Kemp. Kemp was allowed by the monarch to exploit his invention and conduct trade on woolen clothes made by his craft in England.

Besides, he also got the right to teach his weaving technique to people he chose to. Thus, the protection gave Kemp exclusive rights to work and disseminate his knowledge and skills. In many ways, this case lies at the root of the present day patents.

Patents evolved from letters patent which were given by the monarchs that granted monopoly over particular industries with new techniques. This power was used mostly for raising money for the crown and was abused most of the time. Elizabeth I used this system on a large scale, issuing patents even for common commodities like salt, starch, etc. These odious monopolies led to a conflict between the Parliament and the Crown, which was finally settled in 1601. It was decided that the power to administer patents would be turned over to the common law courts.

At the same time, Elizabeth I revoked many other restrictive and damaging monopolies. However, James I, Elizabeth's first successor continued using patents to create monopolies. But, after public outcry, James I of England was forced to revoke all existing monopolies. This was incorporated into the Statute of Monopolies in which the Parliament restricted the power of the Crown explicitly so that letter patents could be introduced to the inventors of original inventions for a fixed number of years.

Origin In India:

The 1st legislation in India relating to patents was the Act VI of 1856. The objective was to encourage inventions and to induce inventors to disclose secrets of their inventions. Later, to grant exclusive privilege, a fresh legislation was introduced as Act XV of 1859. However, in 1872, the act was renamed as The Patterns and Designs Protection Act. The act remained in force for 30 years with only 1 amendment in the year 1883.

The Indian Patents and Design Act replaced all the previous laws in India. In this act, provisions relating to grant of secret patents, patent of addition, and increase of term of patent from 14 years to 16 years were made. Later, after independence, various committees were made to examine the revisions in the law and thus a bill was introduced in the Lok sabhaSabha in 1965 which however lapsed. Though it lapsed in 1965, in 1967, an amended bill was introduced and then on the final recommendation of the committee, the Patents Act, 1970 was passed which is presently used in India.

1. Origin And History Of Copyright:

Copyright developed quite similarly as the patents, by which certain authors and printers were given exclusive rights to publish books and other materials. The motive behind this was not to protect the author's right but to raise the revenues of the government and to give control to the government for controlling publications.

For example, in the year 1556, the establishment of the Stationers' Company's monopoly in England was intended solely to help limit the Protestant Reformation movement's power. The entire printing industry was put in the control of the company and thus the government and the church could prevent the dissemination of ideas.

The Statute of Anne which was passed in 1710 was a milestone in the history of copyright law. It recognized that it is the authors who should be primary beneficiaries of the copyright law and also recognized that such copyright ideas should have limited duration (then set at 28 years), after which the work would pass into public domain. Similar laws were enacted in the United States in 1790 and in France in 1793.

Origin In India:

Copyright law entered in the year 1847 in India through an enactment during the regime of the East India Company. At that time, the term of the copyright was for 42 years plus 7 years post-mortem. The government could grant a compulsory license for publishing a book if the owner of the copyright, upon the death of the author, denied its publication. Registration of Copyright was mandatory to enforce rights under this act.

In 1914, the then Indian legislature enacted a new Copyright Law under the British Raj which was quite similar to the United Kingdom Copyright Act, 1911. However, there were few major differences. The most important one being- it introduced criminal sanctions for copyright infringement under sections 7 to 12. The 1911 Act was amended many times until 1957 and thus, in the year 1957 the Copyright Act was enacted by independent India in order to suit the provisions of the Berne Convention. This 1957 Act has been amended many times, the latest being in the year 2012.

2. Origin And History Of Trademark:

Trademarks have been used since the 13th century in England. Bakers were the first ones to take advantage of trademarks. In the year 1266, under the reign of King Henry III, Trademark legislation was passed in England. Bakers in England used a distinctive mark of their own to distinguish their products.

However, the origin of the first modern trademark legislation is dated in the year 1857 in France, followed by the Merchandise Act in England in 1862. The oldest registered trademark in the UK was in the year 1876- The Bass Brewery's label which had three triangles logo for sale.

The dictum nobody has any right to represent his goods as the goods of somebody else and nobody has the right to pass off his goods as the goods of somebody else were established where a clothier who had gained great reputation by putting his marks on clothes made by him was used by another to deceive and make profits. The Courts thereafter followed these principles as the law. They recognized such disputes and gave remedies as 'passing off'.

Origin In India:

India prepared the first act related to trademarks as Trademark Act, 1940 which was borrowed from British Trademark Act, 1938. Further, post independence the Trade and Merchandise Act, 1958 was enacted. Various amendments were made until 30th December 1999, when the Trade Mark Act, 1999 was enacted which is presently used in India.

EVOLUTION OF IPR

Eventually, in 1893, the United International Bureau for the Protection of Intellectual Property was constituted. Their organization was a common platform to administer both the Paris and the Berne Conventions. It was popularly known by its French acronym BIPRI.

In 1970, BIPRI turned into the World Intellectual Property Organization, which is referred to as **WIPO**. The World Intellectual Property Organization was established through a convention which was signed in the year 1967. In 1974, The WIPO became part of the United Nations as a specialized agency to promote intellectual activities, stimulate creativity, and facilitate technology transfer for accelerating economic development all over the world. Presently, the WIPO has 193 member states. It administers 26 treaties including the WIPO convention.

Berne Convention

Established: 1886

Purpose: To protect the rights of authors and creators of literary and artistic works across member countries.

Key Features:

- Automatic Protection: Works are protected automatically without the need for formal registration. Once a work is created and fixed in a tangible form, it is protected.
- Minimum Standards: Sets minimum protection standards for literary and artistic works, including the right to authorize or prohibit reproduction, translation, public performance, and adaptation.
- National Treatment Principle: Requires member countries to grant the same level of protection to foreign authors as they do to their own nationals.
- **Duration of Protection:** Generally lasts for the life of the author plus 50 years, though some countries provide longer terms. For works with multiple authors, the term extends 50 years after the death of the last surviving author.
- Moral Rights: Includes moral rights, which protect the personal connection between the author and their work, such as the right to attribution and the right to object to derogatory treatment.
- Administrative Body: Managed by the World Intellectual Property Organization (WIPO).

Significance: The Berne Convention has been instrumental in harmonizing copyright laws across member states and fostering international collaboration in the protection of creative works.

Paris Convention

Established: 1883

Purpose: To protect industrial property including patents, trademarks, industrial designs, and geographical indications across member countries.

Key Features:

- National Treatment Principle: Ensures that foreign applicants receive the same level of protection as domestic ones. This applies to patents, trademarks, and other industrial property rights.
- Priority Rights: Provides a right of priority, allowing applicants to file in other member countries within a specified period (e.g., 12 months for patents and 6 months for trademarks) while preserving the filing date of the initial application.

- Minimum Standards: Sets minimum standards for protection of patents, trademarks, and industrial designs. For instance, patents must be granted for inventions that are new, involve an inventive step, and are capable of industrial application.
- Protection of Geographical Indications: Ensures protection for geographical indications that identify goods as originating from a specific place where a given quality, reputation, or characteristic is essentially attributable to its geographical origin.
- Administrative Body: Also managed by WIPO, with the International Bureau serving as the administrative body.

Significance: The Paris Convention has played a crucial role in establishing a global system for the protection of industrial property, facilitating international trade and innovation by ensuring that intellectual property rights are respected across borders.

Constitution of India For IPR

World Intellectual Property Organization (WIPO)

- WIPO stands for World Intellectual Property Organisation.
- It is one of the 15 specialized agencies of the United Nations (UN).
- It was established on 14 July 1967.
- It was established to promote and defend intellectual property (IP) worldwide via collaboration with governments and international organizations.
- The Headquarters of WIPO lies in Geneva, Switzerland.
- Currently, WIPO has 193 member states(as of June 2022). Members include 190 UN member states and the Cook Islands, Holy See, and Niue.
- India is also a member of WIPO. It joined WIPO in 1975.
- The activities of WIPO include
 - 1. To host forums for discussing and shaping international IP rules and policies,

- 2. To provide global services that register and protect IP in different countries,
- 3. To resolve transboundary IP disputes,
- 4. To help in connecting IP systems through uniform standards and infrastructure,
- 5. To serve as a general reference database on all IP matters.
- 6. The **Director-General(DG)** of WIPO is Daren Tang.
- 7. The Director-General is appointed by the General Assembly through nomination by the Coordination Committee.
- The main policy and decision-making bodies of WIPO are the Coordination
 Committee and the General Assembly.
- Important Reports & Publications by WIPO World Intellectual Property Report is published bi-annually, with each edition focusing on specific trends in an area of intellectual property (IP).
- World Intellectual Property Day is observed on the 26th of April every year as on this
 day the convention to establish the WIPO came into effect in 1970. The theme for
 World Intellectual Property Day 2022 was 'IP and Youth Innovating for a Better
 Future'.

Certainly! Here's an expanded explanation on the realism of the statement regarding the challenges of protecting intellectual property in the contemporary business environment:

What are TRIPS or TRIPS Agreements?

 The World Trade Organization (WTO), TRIPS Agreement is a significant international agreement that establishes a minimum requirement for the protection and enforcement of IPR.

- Its main aim is to create a uniform method for upholding the rights of intellectual property owners and to give a guarantee to all member countries that they have adequate protection for their intellectual property.
- The TRIPS Agreement is administered by the Council for TRIPS, which is open to all Members and reports to the WTO General Council.
- It addresses many intellectual property issues like patents, copyright and related rights, trademarks, geographical indications, industrial designs, layout designs for integrated circuits, and undisclosed information (trade secrets).
- The TRIPS Agreement establishes minimum standards, but Members may choose to provide greater intellectual property protection if they so choose.
- This agreement establishes the minimum requirements for intellectual property protection and the enforcement of intellectual property rights. It also includes provisions for legal and administrative processes, temporary solutions, financial penalties and other penalties along with border controls.
- Adding to it, this agreement gives member nations the option to exempt vital biological processes that are being used in the production of food or medicines as well as plants and animals from patentability.
- This agreement includes provisions for the enforcement of intellectual property rights too, the protection of geographical indications, and the protection of confidential information (trade secrets).
- It also offers instructions on how to make sure the agreement is followed and that intellectual property rights are properly enforced. The TRIPS Agreement has a dispute resolution process too that makes it easier for member nations to disagree about the agreement.
- It is a crucial part of the system for protecting intellectual property around the world. It offers a uniform method for enforcing these rights and sees that all member nations have adequate protection for their intellectual property rights.

GATT (General Agreement of Tariffs and Trade)

- GATT lacked a coherent institutional structure. World Trade Organisation (WTO)
 incorporates the principles of GATT and provides a more institutional framework for
 implementing and extending them.
- 2. GATT was ad hoc and provisional in nature, it was never ratified in the parliaments of member countries.
- 3. WTO and its agreements are permanent, it has a strong legal basis, and member countries have ratified it in their parliaments.
- 4. GATT dealt with just trade in goods, WTO covers services and intellectual property as well.
- 5. WTO dispute settlement is faster, its rulings can never be blocked.

What is the GATT and its purpose?

General Agreement on Tariffs and Trade (GATT) was an international trade agreement signed in 1947. 23 nations were signatories of this trade agreement. GATT came into effect on January 1, 1948. The purpose of GATT was to liberalize trade by reducing tariffs and reducing quotas among member countries. The member nations had to remove all the trade discriminations. The 7 rounds of negotiations from 1947 to 1993 reduced average tariffs on industrial goods from 40% to 5%. The steps taken at GATT led to economic globalization.

WTO (World Trade Organization)

WTO – World Trade Organisation, was established in 1995 as the heir organization to the GATT (General Agreement on Trade and Tariff). GATT was founded in 1948 with 23 nations as the global (international) trade organization to serve all multilateral trade agreements by giving fair chances to all nations in the international exchange for trading

prospects. WTO is required to build a rule-based trading government in which countries cannot place unreasonable constraints on trade.

In addition, its mission is to increase stock and trade of services, to assure maximum utilization of world resources and to preserve the environment. The WTO deals include trade in commodities as well as services to promote international trade (bilateral and multilateral) through the elimination of the tax as well as non-tariff obstacles and implementing greater marketplace access to all member nations.

Objectives of WTO

- To set and execute rules for international trade
- To present a panel for negotiating and controlling additional trade liberalization
- To solve trade conflicts
- To improve the clarity of decision-making methods

NOVELTY

Novelty is a requirement for a patent claim to be patentable. In contrast, if an invention was known to the public before filing a patent application, or before its date of priority, if the priority of an earlier patent application is claimed, the invention is not considered new and therefore not patentable.

To assess the novelty of an invention, a search through what is called the prior art is usually performed, the term "art" referring to the relevant technical field. A prior art search is generally performed with a view to proving that the invention is "not new" or old. No search can possibly cover every single publication or use on earth, and therefore cannot prove that an invention is "new". A prior art search may for instance be performed using a keyword search of large patent databases, scientific papers and publications, and on any web search engine.

However, it is impossible to guarantee the novelty of an invention, even once a patent has been granted, since some little known publication may have disclosed the claimed invention

UTILITY IN PATENT

The paramount motive for the grant of a patent is to give the inventor exclusive authority over his invention and to bar others from commercially using or exploiting it. Utility patents or utility model patents are just like usual patents but differ in terms of cost, innovation standards, and filing procedure. Utility patents allow the sole inventor to prevent anyone from commercially using his invention without his authorisation for a period of time. These types of patents are granted for a short period of time compared to normal patents, and because of this reason, they are also known as "short-term patents" in various jurisdictions throughout the world. A utility patent protects how the product or invention works or operates since the term 'utility' literally means the way of use. It is given for a product, matter, machine, manufacture, or composition of matter, or a new and useful improvement thereof.

Utility Patents are relatively short-term rights granted for inventions that can be mechanical, electrical, or chemical in nature, and they protect the invention in the way in which it is used. These inventions may not qualify for the higher standards of stringent criteria such as inventive step, novel and non-obviousness, but are inventions in their own consideration. Like patents, the utility model is an exclusive right granted to an invention. This right allows the inventor to prevent others from commercially using the protected invention without his consent and permission for a limited period of time, that is to say, 6 to 10 years, which may

differ subject to jurisdiction. It is very similar to patents and is often referred to as "petty patent" or "innovation patent" as they require less stringent qualifications and their duration is shorter than that of patents.

In the case of utility patents, any invention would be eligible to get protection when its characteristics and fundamentals showcase some utility or usefulness, which can be said to be the same when a common person, merely looking at the product or using it, figures out its potential for the relative work as to what purpose or motive it can be used for along with its commercial potential. The invention must also be specific and direct in nature to meet the above-mentioned requisites.

PATENT ACT

- 1. **Purpose**: The Patent Act provides a legal framework for protecting inventions. It grants inventors exclusive rights to their inventions for a certain period, preventing others from making, using, or selling the patented invention without permission.
- 2. **Eligibility**: To be patentable, an invention must be novel, involve an inventive step, and be capable of industrial application.

3. Application Process:

- Filing: Inventors or their representatives file a patent application with the patent office.
- Examination: The application is examined to ensure it meets all patentability criteria.
- Grant: If the application meets the requirements, a patent is granted.
- 4. **Rights**: A patent gives the inventor exclusive rights to the invention for a limited period, typically 20 years from the filing date.

5. Enforcement: Patent holders can enforce their rights through legal action against unauthorized use or infringement.

Key Amendments to the Patent Act

- 1. Patent Act of 1970 (India):
 - Significant Changes: This Act was a major overhaul of the Indian patent system, aligning it with international standards. It introduced the concept of product and process patents and aimed to promote innovation.
- 2. Patent (Amendment) Act, 2002:
 - Compliance with TRIPS: This amendment was made to comply with the Trade-Related Aspects of Intellectual Property Rights (TRIPS)
 Agreement, which India agreed to as part of its WTO membership.
 - Product Patents: It allowed for product patents in pharmaceuticals and agrochemicals, which was previously restricted to process patents.
 - Term Extension: The term of protection for patents was extended to
 20 years from the filing date.
- 3. Patent (Amendment) Act, 2005:
 - Patentability Criteria: Refined the definition of patentable inventions, including stricter requirements for inventive steps.
 - Compulsory Licensing: Introduced provisions for compulsory licensing under certain conditions to address public health concerns and prevent abuse of patent rights.
- 4. Patent (Amendment) Act, 2016:
 - Streamlining Procedures: Aimed at improving the efficiency of the patent examination and grant process.
 - Facilitating Start-ups: Introduced measures to support and simplify patent procedures for start-ups and small enterprises.

- Mandatory Electronic Filing: Encouraged electronic filing and communication to streamline processes.
- 5. Patent (Amendment) Act, 2020:
 - Enhancing Transparency: Increased transparency and accountability in patent proceedings.
 - Administrative Changes: Made various administrative changes to improve the efficiency of the patent system.

These amendments reflect the ongoing effort to align national patent laws with international standards, enhance innovation, and balance the interests of patent holders with public access to technology.

Software Patents

- Definition: Software patents protect specific implementations of software-related inventions. These can include algorithms, methods, or processes that are novel and non-obvious.
- 2. Patentability Criteria:
 - Novelty: The software invention must be new and not previously disclosed.
 - Inventive Step: The software must involve an inventive step that is not obvious to someone skilled in the field.
 - Industrial Applicability: The software must have a practical application or utility.
- 3. Types of Software Patents:
 - Algorithm Patents: Protection for specific algorithms or methods of performing a task.
 - User Interface Patents: Protection for novel user interfaces or graphical elements.

 Business Method Patents: Protection for innovative business methods that are implemented through software.

4. Jurisdictional Variations:

- United States: Software patents are broadly accepted, provided they meet the criteria of being a "patentable subject matter" and are not abstract ideas.
- European Union: Software as such is not patentable, but software that provides a technical solution to a technical problem may be patented.
- India: Software per se is not patentable, but software combined with hardware or when it solves a technical problem may be eligible for a patent.

5. Challenges:

- Abstract Ideas: In many jurisdictions, software patents must be tied to a specific, tangible application and cannot merely be abstract ideas.
- Patent Thickets: Dense and overlapping patents in software can lead to complex legal disputes and hinder innovation.
- Litigation Costs: Defending or enforcing software patents can be expensive and time-consuming.

6. Benefits:

- Exclusive Rights: Provides the patent holder with exclusive rights to use and license the software invention.
- Competitive Advantage: Helps establish a competitive edge and potentially increase revenue through licensing.

7. Controversies:

- Innovation Stifling: Some argue that software patents can stifle innovation and create barriers for smaller developers.
- Patent Trolls: Entities that acquire software patents solely to enforce them against other companies without actually using the technology.

8. Recent Trends:

- Evolving Standards: Patent standards for software are evolving, with ongoing debates and legal decisions shaping the scope and enforceability of software patents.
- Increased Scrutiny: There is growing scrutiny and calls for reform regarding the impact of software patents on innovation and competition.

Pharmaceutical Products and Processes

1. Pharmaceutical Products:

 Definition: These are drugs or medications used to diagnose, treat, or prevent diseases and conditions. They can be in various forms such as tablets, capsules, injections, creams, or other formulations.

Types:

- **Innovative Drugs:** New drugs developed through original research, typically involving novel compounds or mechanisms of action.
- **Generic Drugs:** Copies of branded drugs that are identical in formulation, dosage, and administration but sold under a different name once the original patent expires.
- **Biologics:** Complex, biologically derived products such as vaccines, blood components, and gene therapies.

2. Pharmaceutical Processes:

 Definition: These are the methods or techniques used to manufacture pharmaceutical products. This includes the synthesis of active pharmaceutical ingredients (APIs), formulation development, and quality control processes.

Components:

 Synthesis: Chemical processes for creating the drug's active ingredient.

- **Formulation:** Combining the API with other substances to create the final drug product (e.g., adding fillers or stabilizers).
- **Manufacturing:** Scaling up the synthesis and formulation processes for large-scale production while ensuring quality and consistency.
- Quality Control: Testing and validating the product to meet regulatory standards for safety and efficacy.

Patent Concept in IPR

1. Definition of a Patent:

 A patent is an exclusive right granted to an inventor or assignee for a limited period, typically 20 years from the filing date, in exchange for the public disclosure of the invention. This right prevents others from making, using, selling, or distributing the patented invention without permission.

2. Types of Patents Relevant to Pharmaceuticals:

- Utility Patents: Cover new and useful processes, machines, or compositions of matter. Most pharmaceutical patents fall into this category.
- Composition of Matter Patents: Protect new chemical compounds or formulations.
- Process Patents: Protect new methods of manufacturing or processes used to create pharmaceutical products.
- Method of Treatment Patents: Cover new methods of using known substances to treat diseases.

3. Patentability Requirements:

- Novelty: The invention must be new, meaning it has not been previously disclosed or patented.
- Non-Obviousness: The invention must not be obvious to someone skilled in the field based on existing knowledge.
- **Utility:** The invention must have a specific, substantial, and credible utility.

4. Patent Application Process:

Filing: Submit a patent application to a patent office, such as the USPTO
 (United States Patent and Trademark Office) or EPO (European Patent Office).

- **Examination:** The application is reviewed by a patent examiner to ensure it meets all patentability criteria.
- Grant: If the application is approved, a patent is granted, providing the inventor with exclusive rights.

5. Patent Rights and Enforcement:

- **Exclusive Rights:** The patent holder has the right to exclude others from making, using, selling, or distributing the patented invention.
- Licensing: The patent holder can license the rights to others, usually in exchange for royalties.
- Infringement: If someone uses the patented invention without permission,
 the patent holder can take legal action to enforce their rights.

6. Importance of Patents in Pharmaceuticals:

- Incentivizes Innovation: Patents provide a financial incentive for companies to invest in research and development (R&D) by offering a period of exclusivity.
- Market Exclusivity: Allows companies to recoup the significant costs associated with developing new drugs.
- Encourages Investment: Attracts investors who are more likely to invest in companies with strong IP portfolios.

7. Challenges and Controversies:

- **Patent Thickets:** Complex web of overlapping patents can create barriers for innovation and generic drug entry.
- Evergreening: Strategies used by patent holders to extend patent protection beyond the original term, sometimes criticized for stifling competition.
- Access to Medicine: High costs of patented drugs can limit access to essential medications, leading to debates on patent policies and public health.

TOPIC -Protecting Intellectual Property in the Modern Era: A Challenge Due to Ease of Cloning

In today's fast-paced and highly interconnected world, protecting intellectual property (IP) is increasingly challenging. The statement, "Protecting the created intellectuality is a challenge

nowadays because cloning one's idea is easier than creating new ones," reflects a pressing issue for businesses and innovators. This challenge is rooted in the rapid advancement of technology, the ease of information dissemination, and the complexities of IP law. This discussion explores the realism of this statement by examining various facets of modern business practices, technological developments, and legal frameworks.

1. The Ease of Cloning in the Digital Age

1.1 Technological Advancements

The digital revolution has significantly lowered the barriers to replicating ideas. Technologies such as artificial intelligence (AI), machine learning, and software development tools have made it easier to duplicate or adapt existing ideas. For example:

- Software and Applications: Code can be copied, modified, and redistributed with relative
 ease. Open-source platforms enable users to build on existing codebases, often leading to
 unintentional or deliberate cloning of software features.
- Designs and Artworks: Digital tools and platforms allow for the rapid creation and modification of visual designs, making it simpler to reproduce artistic works and product designs.

1.2 Information Sharing and Collaboration

The internet has democratized access to information, making it easy to disseminate and share ideas globally. While this fosters innovation, it also facilitates the copying of ideas:

- Online Platforms: Social media, forums, and collaborative platforms allow for the widespread sharing of ideas, often without adequate safeguards to protect IP.
- **Crowdsourcing and Open Innovation**: While these methods can accelerate innovation, they also pose risks of idea theft if proper IP protection measures are not in place.

2. The Complexity of IP Protection

2.1 Legal Frameworks and Jurisdictional Issues

IP protection varies across jurisdictions, complicating enforcement:

- Geographical Variability: IP laws differ significantly from one country to another. What is
 protected in one jurisdiction may not be in another, creating challenges for global
 businesses.
- Legal Costs and Enforcement: The process of securing and enforcing IP rights can be
 expensive and time-consuming. Small and medium-sized enterprises (SMEs) may struggle
 with the costs associated with IP litigation.

2.2 Limitations of Current IP Laws

Existing IP laws often struggle to keep pace with technological advancements:

- Patent Laws: While patents protect new inventions, the process of obtaining a patent can be lengthy and complex. Additionally, the scope of patent protection may be limited, especially in rapidly evolving fields like software and biotechnology.
- Copyright and Trademark: Copyright protects original works of authorship, but it does not
 cover ideas themselves. Trademarks protect brand identifiers, but counterfeiting and brand
 imitation remain prevalent challenges.

3. Strategies for Mitigating IP Risks

3.1 Enhancing IP Management

Effective IP management is crucial for protecting intellectual property:

Monitoring and Enforcement: Regularly monitoring the market for potential infringements
and taking prompt legal action can help safeguard IP. Employing IP attorneys and using
technology to track unauthorized uses can be effective.

 IP Portfolio Management: Businesses should develop comprehensive IP strategies, including patent filings, trademark registrations, and copyright protections. Maintaining a well-managed IP portfolio can enhance the value of intellectual assets.

3.2 Leveraging Technology for Protection

Technological solutions can aid in IP protection:

- Digital Rights Management (DRM): DRM technologies help control access to and distribution of digital content, such as software, music, and e-books.
- Blockchain for IP Protection: Blockchain technology can be used to create immutable records of IP ownership and usage, providing a tamper-proof way to track and verify IP rights.

4. The Role of Policy and Collaboration

4.1 Policy Advocacy and Reform

Advocating for updates to IP laws and policies is essential:

- Legal Reforms: Engaging with policymakers to address gaps in existing IP laws and promote reforms that reflect current technological realities can improve IP protection.
- International Cooperation: Strengthening international agreements and cooperation on IP protection can help address jurisdictional challenges and promote global standards.

4.2 Collaboration and Best Practices

Collaboration within industries can foster better IP protection:

- Industry Associations: Industry groups can develop best practices for IP protection and share information on emerging threats and solutions.
- Partnerships: Collaborating with technology providers and legal experts can help businesses implement effective IP protection measures.

Registration process of all kind of patents

1. TRADE MARK

DEFINITION OF TRADEMARK:

A trade mark is a word, phrase, symbol or design, or combination of words, phrases, symbols or designs used in the course of trade which identifies and distinguishes the source of the goods or services of one enterprise from those of others.

Trademarks perform two critical functions in the market place:

- 1. They provide assurance that goods are of a certain quality and consistency, and
- 2. They assist consumers in making decisions about the purchase of goods.
- 3. They identify one maker's goods or services and distinguish them from those offered by others.
- 4. They indicate that all goods or services offered under the mark come from a single producer, manufacturer, or "source" They indicate that all goods or services offered under the mark are of consistent quality.
- 5. They serve as an advertising devices o that consumers link a product or service being offered with a mark

Obtaining a trademark in India involves a series of legal steps designed to protect and register your brand or logo. Here's a detailed guide to the process:

1. Trademark Search

To ensure that your trademark is unique and not already registered or applied for by someone else.

<u>Process</u>

Conduct a Search: Use the trademark search tool on the Indian Trade Marks Office (TMO) Example - Marcaria.com website or consult a trademark attorney.

Scope: Search within the relevant classes (goods and services) to see if there are similar trademarks.

2. Filing a Trademark Application

To officially apply for the trademark protection.

Process:

Prepare Application: Gather necessary information, including the trademark name/logo, applicant details, and the goods/services the trademark will cover.

Choose the Class: Determine the appropriate class under the Nice Classification (an international system for classifying goods and services).

File the Application: Submit the application form (Form TM-A) online through the Intellectual Property India (IPI) website or physically at the Trade Marks Registry office.

Documents Required:

- Application Form TM-A
- Representation of the Trademark (if applicable).
- Power of Attorney (if filed through an attorney).
- Business Registration Proof (if applicable).

Description of Goods/Services

3. Examination of the Application

To check if the application meets all legal requirements and if the trademark is registrable.

Process:

Examination Report: The Trademark Office will issue an examination report which may include objections or requirements for further information.

Respond to Objections: If there are objections, you must respond within the specified time frame (usually 30 days). This may involve clarifications or amendments to the application.

Acceptance or Refusal: After reviewing the response, the Trademark Office will either accept or refuse the application.

4. Publication in the Trademark Journal

To notify the public of the pending trademark application and provide an opportunity for opposition.

Process

Publication: If the application is accepted, it will be published in the Trade Marks Journal.

Opposition Period: There is a 4-month period during which any party can file an opposition to the trademark registration if they believe it infringes on their existing rights.

5. Opposition Proceedings (If Any)

To resolve disputes if any third party opposes the trademark registration.

Process:

Filing Opposition: The opposing party files a notice of opposition within the 4-month publication period.

Response: The applicant can file a counter-statement in response to the opposition.

Hearing: If necessary, a hearing will be conducted to resolve the opposition.

Decision: The Registrar will make a decision based on the hearing and submissions.

6. Trademark Registration

To obtain official recognition and legal protection for the trademark

<u>Process</u>

Issuance of Registration Certificate: If no opposition is filed or if the opposition is resolved in favor of the applicant, the Trademark Office will issue a registration certificate.

Validity: The trademark is registered for 10 years from the date of application and is renewable indefinitely for successive periods of 10 years.

7. Post-Registration

To maintain and enforce trademark rights.

Process

Renewal Apply for renewal of the trademark registration every 10 years before the expiry of the current registration.

Monitoring: Watch for any potential infringement of the trademark and take legal action if necessary.

Change of Details: Update any changes in the trademark details (e.g., address, ownership) by filing appropriate forms.

2. Industrial Design

The registration process for an industrial design in India is managed by the Office of the Controller General of Patents, Designs, and Trademarks (CGPDTM). Registering an industrial design helps protect the unique visual appearance of a product and gives the designer exclusive rights to its use. Here's a detailed breakdown of the registration process:

1. Pre-Registration Steps

1.1. Design Search

 Before applying, conduct a search to ensure that your design is new and original. This helps avoid conflicts with existing registered designs.

1.2. Prepare Design Drawings

 Prepare clear and precise drawings or photographs of the design. The drawings should show the design from different angles, including any essential views.

1.3. Documentation

- Prepare the necessary documents, including:
 - o A completed application form.
 - The design drawings or photographs.
 - o A brief description of the design.

o A declaration of originality.

2. Filing the Application

2.1. Application Form

• Fill out the application form (Form 1) for registration of the design. This form can be downloaded from the <u>CGPDTM website</u>.

2.2. Submission

 Submit the completed form along with the design drawings, description, and any required fees to the Design Wing of the CGPDTM office. The submission can be done online through the <u>IP India e-filing portal</u>.

2.3. Fees

 Pay the required application fee. The fee varies based on the number of designs and whether the applicant is an individual, startup, or company.

3. Examination Process

3.1. Formal Examination

 The application is first examined to ensure that all required documents and formalities are complete.

3.2. Substantive Examination

• The design is then examined for its novelty and originality. The design should not be identical or substantially similar to any existing registered design.

3.3. Objections

• If there are any objections or discrepancies, the applicant will be notified and will have the opportunity to respond or amend the application.

4. Publication and Opposition

4.1. Publication

• If the design is accepted, it is published in the Designs Journal. This provides a period during which third parties can oppose the registration.

4.2. Opposition

 Any interested party can file an opposition to the registration within the period specified. If an opposition is filed, it will be examined, and the applicant will have a chance to respond.

5. Registration

5.1. Grant of Registration

• If no opposition is filed or if the opposition is resolved in favor of the applicant, the design is registered, and a certificate of registration is issued.

5.2. Duration and Renewal

• The registration of an industrial design is valid for an initial period of 10 years from the date of registration. It can be renewed for an additional 5 years, making the total protection period up to 15 years.

6. Post-Registration

6.1. Maintenance

• Ensure that you keep track of the renewal deadlines and maintain the design's protection by renewing it on time.

6.2. Enforcement

 Monitor the market to ensure that no unauthorized parties are using your registered design. If infringement occurs, you can take legal action to enforce your rights.

6.3. Updates

• Keep your contact details updated with the CGPDTM office to receive any important communications regarding your registration.

This process ensures that your industrial design is legally protected, allowing you to control its use and prevent others from copying or imitating it.

Protection of Plant Varieties and Farmers

1. Introduction

- **Definition:** Plant variety protection involves granting rights to breeders for new varieties of plants that are distinct, uniform, and stable.
- **Importance**: Encourages innovation in plant breeding and ensures that farmers' and breeders' rights are safeguarded.

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2. Legal Framework

A. International Agreements

- UPOV Convention (International Union for the Protection of New Varieties of Plants):
 - Established in 1961, with revisions in 1972, 1978, and 1991.
 - Provides a standardized system for the protection of new plant varieties.
 - Criteria: Novelty, distinctness, uniformity, and stability.
 - Rights: Exclusive rights to propagate, sell, and distribute the variety.
- TRIPS Agreement (Trade-Related Aspects of Intellectual Property Rights):
 - Includes provisions for the protection of plant varieties under Article 27.3(b).
 - Allows members to choose between patents, sui generis systems, or a combination.

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B. National Legislation

- India: Protection of Plant Varieties and Farmers' Rights Act, 2001
 - o Provides protection to plant varieties, both developed and discovered.
 - Incorporates farmers' rights alongside breeders' rights.
- United States: Plant Variety Protection Act (PVPA), 1970
 - Grants exclusive control over the sale and use of new plant varieties.
- European Union: Community Plant Variety Office (CPVO)

o Provides a single, EU-wide system for plant variety protection.

3. Criteria for Protection

- **Novelty:** The variety must be new and not previously sold or used.
- **Distinctness:** The variety must be distinguishable from existing varieties.
- **Uniformity:** The variety must be consistent in its essential characteristics.
- **Stability:** The variety must remain true to its description through successive generations.

4. Rights Granted

- **Exclusive Rights:** To produce, sell, market, and export the plant variety.
- **Duration:** Typically lasts 20-25 years, with variations depending on jurisdiction and type of plant.

5. Farmers' Rights

- Recognition of Traditional Knowledge: Protection for indigenous varieties and traditional farming practices.
- Seed Saving and Exchange: Rights for farmers to save, use, exchange, and sell seeds
 of protected varieties, with certain restrictions.
- **Compensation:** Farmers can be compensated for their contributions to plant breeding and preservation of biodiversity.

6. Enforcement and Challenges

- Infringement Issues: Addressing unauthorized use or sale of protected plant varieties.
- **Compliance:** Ensuring that protections are not used to restrict farmers' rights unduly.
- Global Disparities: Variations in protection and enforcement across different countries.

7. Impact on Innovation and Agriculture

- **Incentivizing Breeding:** Protection encourages investment in the development of new plant varieties.
- Access to Varieties: Balancing between incentivizing innovation and ensuring access for smallholders and farmers.

 Sustainability: Promoting sustainable agricultural practices through protected and improved varieties.

8. Conclusion

- **Balancing Interests:** Effective protection requires balancing breeders' rights with farmers' rights to ensure a fair and sustainable agricultural system.
- **Future Directions:** Continued development of legal frameworks to adapt to technological advancements and global challenges.

Case Study: Basmati Rice and Intellectual Property Rights

Background

Basmati rice, a variety known for its distinctive aroma and long grains, has been cultivated in the Indian subcontinent for centuries. It is traditionally grown in regions like the Himalayan foothills and has a significant cultural and economic value.

The Issue

In the early 2000s, a major U.S.-based company sought to patent Basmati rice varieties in the United States, claiming intellectual property rights over certain traits of the rice. This move was seen as an attempt to assert control over a variety deeply rooted in Indian agriculture.

Indian Response

The Indian government, along with local farmers and agricultural organizations, opposed this patent claim. They argued that the Basmati rice varieties had been developed through traditional farming practices over generations and that the patenting attempt was an infringement on the rights of Indian farmers and the heritage of Indian agriculture.