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**QUESTION**

BRIEFLY DISCUSS THE FOLLOWING INTELLECTUAL PROPERTY PROTECTION METHODS

1. Patent
2. Copyright
3. Trademark
4. Trade secret
5. **Patent**

**Patent** is Used to protect inventive ideas or processes I.e things that are new, useful and non-obvious. patents are what most often come to mind when thinking of IP protection. Patents are also used to protect newly engineered plant species or strains

* **Procedure**

For most companies, patents result from the following stages:

**Conceptualization**

Typically, innovation teams work to address a common problem facing their organization, industry, or the world at large when developing their idea. When they’ve arrived at a solution or concept, they’ll draw up plans and gather the resources necessary to make it a reality. Prototypes or drawings can be created to provide a more accurate description of the end product or process.

**Invention Disclosure**

An internal review process often occurs with every invention. The innovation team consists of internal counsel and an invention review panel of varying disciplines. The reviewers assess, rate, rank, score, and highlight potential flaws in the supporting documents and descriptions for the invention, which are then addressed by the inventor. These reviews can and often do take place multiple times for a single invention.

* **Patent Application**

If the invention is deemed meritorious enough for the pursuit of patent protection, some organizations prepare their own provisional or non-provisional patent applications. Others will farm this stage out. There may be more tweaks as an application is prepared, and then submission to the appropriate patent office and the prosecution stage begins (the back & forth with the government patent office). Typically it is outside counsel that manages this process and related docketing activities.

Docketing is the overarching name for activities that include management of paperwork and meeting filing deadlines specified by the government patent office. Because the application process is often very complicated, patent offices highly recommend working with experienced patent attorneys to handle this process.

**What can be patented**

An invention should satisfy three patentability criteria to be granted a patent:

-Novelty (it is something completely new, not known from the existing technologies)

-Non-obviousness (it is not a modification of something but a newly invented solution that is not obvious to a specialist)

-Industrially applicability (it can be used in industry, agriculture and other fields)

* **Maintenance**

Once a patent is approved, it has a finite lifetime. Patent holders are responsible for maintaining and tracking the usage of their patents and paying the appropriate periodic government renewal fees. If a given technology or other patented asset is collecting dust, you might not want to renew it. Instead, you can try and sell, license or donate it. Conversely, if a patented asset is performing well through product sales or licensing activities and its life is getting shorter, you might think about innovating ahead and maintaining competitive momentum.

* **Costs**

Costs will vary depending on the country or countries where you file an application, and can run into tens of thousands of dollars depending on the invention’s complexity, plus attorney fees. Maintenance fees over the lifetime of the patent can run into thousands more per patent, per country where patent rights have been granted. You have to keep your eyes on these costs.

1. **Copyright**

Copyrights do not protect ideas, but rather the manner in which ideas are expressed (“original works of authorship”) - written works, art, music, architectural drawings, or even programming code for software (most evident nowadays in video game entertainment). With certain exceptions, copyrights allow the owner of the protected materials to control reproduction, performance, new versioning or adaptations, public performance and distribution of the works.

* **The examples of the works that can be copyright are the following:**

-Songs and music

-Literature and writing pieces of work

-Drawings, paintings, maps, etc.

-Sculptures and architectural works

-Photos and films

-Computer software

-Web content

* **Copyright protection provides the author with two types of rights:**

Moral rights allow the author to be considered as the creator of the work. This right can’t be transferred to anyone else.

Financial rights allow the author to use his or her creation in different ways (make and distribute copies, perform in public, broadcast, etc.) and get financial rewards for it.

How to obtain copyright protection

A formal registry of copyright works doesn’t exist. The creator gets copyright protection automatically at the date of the creation. The one and the only requirement is that the work must be original, i. e. сreated using exclusively the author’s intellectual resources, not a copy, transformation or modification of some other work. You can mark your work with your name, signature, date or the copyright symbol ©, but it doesn’t affect the level of protection you have.

Some countries, however, have laws on copyright registration. There is also the international Berne Convention for the Protection of Literary and Artistic Works that can be used to protect your work in other countries.

As a rule, the copyright term lasts during the author’s life and 70 years after their death. The difference concerns anonymous or pseudonymous works for which the term lasts 95 years from the first publication or 120 years from the year of its creation.

**Procedure**

Copyrights in general attach when the original works become fixed in a tangible medium, but should be registered with the government copyright office for optimal protection in the form of damages, injunctions and confiscation. Copyright registration applications are much simpler than patents or trademarks, and typically can be obtained by the author alone. The US Copyright Office encourages use of their online application system, and requires a sample of the work to be protected and some background information about the author.

**Costs**

Depending on the type of work being protected, currently fees vary between $25-$100 in the US. The most frequent copyright registration sought is for one work by one author, and costs about $35.

1. **Trademark**

**trademark** is unlike a patent in that it protects words, phrases, symbols, sounds, smells and color schemes. Trademarks are often considered assets that describe or otherwise identify the source of underlying products or services that a company provides, such as the MGM lion roar, the Home Depot orange color scheme, the Intel Inside logo, and so on.

Trade secrets are not covered by special legislative provisions, though they may fall under unfair competition law or some other civil laws. In some countries, people who disclose industrial secrets can be fined.

The most common protection of trade secrets is a non-disclosure agreement. Confident information is valid until the moment it is publicly revealed by the owner.

**Examples include:**

1. Recipes for food
2. Client base
3. Marketing strategy
4. Experimental technology

**Procedure**

Trademarks do not necessarily require government approval to be in effect; they can apply through abundant use in interstate commerce. Still, registration of a trademark affords far superior protection and is gained by filing an application with the proper government office.

A trademark application requires the company or user to provide a clear description and representation of the mark and its uses in conjunction with associated products or services. As with patents, it’s a good idea to partner with outside counsel that specializes in trademark applications and/or search services so they can help ensure there is a clear path for your desired mark.

**Costs**

Trademarks are generally quite less expensive to obtain. According to the US Patent and Trademark Office, trademark registration currently costs between $225 and $325 for each class code you use per mark. Attorney and search fees are extra. There are also periodic (and relatively inexpensive) government maintenance fees for trademarks.

4 . **Trade secrets**

Trade-secrets are proprietary procedures, systems, devices, formulas, strategies or other information that is confidential and exclusive to the company using them. They act as competitive advantages for the business.

**Procedure**

There actually isn’t a federally-regulated registration process for trade secrets. Instead, the onus is on the company in possession of the secret to take necessary precautions to maintain it as such. This is an ongoing, proactive process and can include clearly marking relevant documents as “Confidential,” implementing physical and data security measures, keeping logs of visitors and restricting access. The issuance of nondisclosure agreements or other documented assurances of secrecy can also be employed. One of the first defenses typically put up when you assert that someone misappropriated your trade secret is that you failed to adequately treat it as a trade secret.

**Costs**

Though there are no official registration costs, there are costs associated with taking appropriate precautions and security measures. You must weigh the competitive significance of your secrets against the cost of protecting them.