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Everything You Always Wanted to Know About Patent Expirations ... But Were Afraid to Ask!

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EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT PATENT EXPIRATIONS . . . BUT WERE AFRAID TO ASK!

Or — when will my patent expire?

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When will my patent expire?

- Agenda
 - Brief history of patents and patent policy
 - Current law
 - Information Sources
 - Effect of provisional patent applications
 - Patent term extensions
 - Shortening patent life why and how
 - Maintenance fees keeping patents alive

A short history of patents

- Statute of Monopolies in England (1623). Allowed a 14-year term for a new invention.
- This was an exclusionary right. A patent owner can exclude others from practicing the claimed invention, i.e., a patent confers no right to practice an invention.
- Patents were a cutting-edge social policy in the 18th century. Incorporated by founding Fathers into the US Constitution, and the first patent act was in 1790 one of the first things the new Congress did.

Patents Incorporated into US Constitution



•US constitution Art I §8 cl. 8: To promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries;

•This was adopted without debate at the Constitutional Convention

History Cont'd

- General idea: patents encourage the advancement of new technology by giving an exclusionary period in exchange for a full disclosure of the invention.*
- There have been several patent acts since 1790.
- In the US, the current patent scheme was created in 1952 but key elements were reworked in 1995 and in the American Invents Act (2011).
- Patent statutes in 35 U.S.C.
- Patent rules are in 37 C.F.R.

*Univ. Rochester v. G.D. Searle & Co., Inc., 358 F.3d 916, 922 (Fed. Cir. 2004)

Overarching Concept of Patents



- Quid pro quo: in exchange for a full disclosure of a new invention, the inventors (or their assignees) get a *limited* period of exclusivity where the patent owner can prevent others from practicing the invention.
- This is an economic incentive to make new inventions. The patent owner may be able to enjoy profits from the period of exclusivity.

Patents are an asset

- Patents are an asset that can be bought, sold, and licensed.
- Because patents have a presumption of validity, once issued there is a high bar to overturning a patent.
- Patents have analogies to real property
- Licensing a patent is similar to renting real property. A licensee gets to use the patent in exchange for "rent" – which may be royalty payments or other financial arrangements.
- A transfer of a patent is called an "assignment"
- The USPTO keeps a register of patent assignments and other encumbrances, just like a county land office.

20-year Rule

- So what is the length of the limited period?
- 20 years from the earliest nonprovisional patent application filing date
- Also part of patent policy: an invention must be novel, not obvious, and fully described. It must also be patentable subject matter. These are all big subjects not discussed here.
- This is universally accepted. Almost every sovereign country allows patents and almost all use the 20year expiry rule.



Are patents worthwhile?

- I would argue that the great technological advances of the 19th and 20th centuries were largely driven by strong patent policies in the major industrialized countries (US, England, France, Germany)
- Look at any technological advance and you will likely find many patents as the technology developed.
- This is ongoing in the 21st century.
- So the answer to this question is YES



Patent Expirations

- Patent expiries were set at 17 years from the date of grant in 1861.
- This rule ended for patent applications filed on or after June 8, 1995.
 - Patent terms were brought into compliance with the Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement in the Uruguay Round of the General Agreement on Tariffs and Trade (GATT) of 1994 (TRIPS Agreement Art. 33).

Old Law



- There were two big problems with the old 17-year rule.
 - Patent applicants could "game" the system by keeping a patent application in prosecution for many years, by delaying issuance, which could in effect increase the term of protection. Keep in mind only valid patents in force can be enforced.
 - It is possible there may even be patent applications in the USPTO today, 28 years after 1995, that were filed under the pre-GATT provisions and will expire 17 years from grant—if they ever issue.
 - Most other countries had switched to a 20-year from date of filing patent term. By 1995, the US was an outlier with the 17-year rule.

New Rule – Patent Life is 20 years

- There were two big changes on June 8, 1995
- (1) Patent expiry changed to 20 years from the earliest effective nonprovisional filing date.
 - The issue date no longer was part of the calculation of the patent expiration date.
 - 35 U.S.C. §154(a)
 - This rule is in effect in essentially all countries worldwide.
- (2) Provisional patent applications were created.
- These provisions only affected patent applications filed on or after June 8, 1995.
 - For patent applications filed prior to June 8, 1995, the patent expiration was 17 years from grant or 20 years from the earliest filing date – whichever was later.
 - So for many years after 1995, patent attorneys had to really look hard at patent applications to figure out the correct expiration date.

What is the Effective Filing Date?

- The earliest non-provisional filing date effective in the US.
 - The first patent application filed under 35 U.S.C. §111(a) or as a PCT patent application
- Child patent applications like continuations, divisionals, and continuations-in-part do not reset the earliest non-provisional filing date.
- A PCT patent application is a non-provisional patent application, so normally counts as a US non-provisional filing date.
 - PCT applications must contain claims and be properly formatted
 - PCT patent applications are expected to meet the substantive requirements of patent law
 - 1. Patentable subject matter
 - 2. Novel and inventive (non-obvious)
 - 3. Meet the written description requirement (sufficiency of disclosure)



Sources of Information

- Official sources are the best resource for determining patent status including critical dates like patent filing dates.
- Patent offices of all major countries maintain a website with official information.
- In the US, this is Patent Center
 - https://patentcenter.uspto.gov/
- There is an older system, called "PAIR" (patent application information retrieval) that is being phased out. The public PAIR is no longer available. There is a "private PAIR" that requires a USPTO account that is still available.
- Having a USPTO account makes additional features available in Patent Center.
- Non-experts do not need a USPTO account
- Once a patent application is published, it becomes available in Patent Center
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(54) HUMIDIFIER FOR RESPIRATORY APPARATUS

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 Ronald James HUBY, Sydney (AU);
 Jack Wei CHENG, Sydney (AU)
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- (60) Provisional application No. 60/955,222, filed on Aug. 10, 2007.

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ABSTRACT

A heatable conduit for use in a respiratory apparatus for delivering breathable gas to a patient includes a first segment comprising one or more heater wires and a second segment

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- (74) Agent: GARCIA, Todd E. et al.; Fish & Richardson P.C., P.O. Box 1022, Minneapolis, Minnesota 55440-1022 (US).
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Provisional Patent Applications – Paris Convention

- Problem: filing patents in other countries.
- Patents are a creature of law and are only valid in the country where granted
- General rule: patent applicants have one year to file a patent application in another country besides their home country.
- Because patents require absolute novelty, inventors need a grace period to file in another country, without the second country considering the original patent application prior art.
- To address this problem the Paris Convention (originally enacted in 1883, amended several times since, most recently in 1979) gives a period of priority of 12 months from the earliest filing date.
- Example: you file a patent application in the US and one year later, you file a patent application in Canada. The Canadian patent examiner cannot assert that the US patent application was prior art because the Canadian patent was filed within the priority period.



New Problem with 20-year patent life



- The one-year priority is very important. Most inventions are of value in many different countries.
- Problem is that if a patent expires 20 years from filing in your home country, and you have a 12-month period of priority elsewhere, you will get a shorter patent life in your home country than in other countries with 20-year from first filing. In other countries, the expiration will be 21 years from the original filing date.
- Solution: Provisional applications were created!

Provisional Patent Applications

- Created in the US in 1995
- Provisionals do not count against the 20-year patent expiration clock.
- Provisionals have a 12-month life max



Provisional Patent Appln Timeline

• Typical timeline:



- Key point: a provisional has effect against all other countries.
- So if you file a provisional in the US, it also acts as a provisional in Canada, China, Europe, etc.

More on Provisionals

- The general idea is that a patent applicant files a provisional patent application that has an invention disclosure at a national patent office.
- Provisional patent applications are allowed to be informal. There are no formatting requirements, and claims are not required (unlike regular patent applications).
- The applicant then has 12 months to file a non-provisional patent application anywhere in the world that claims priority to the provisional under the rules of the Paris Convention.
- Provisional patent applications are not examined for novelty and nonobviousness and never issue –
 - there is no such thing as a granted provisional patent application.

You Got an Issued Patent – Congratulations!

- After you get a patent issued, you cannot put it on the shelf and forget about it and expect it to be in force in 10 years down the road when you discover an infringer.
- Most countries require some kind of ongoing payment to keep a patent in force.
 - Many jurisdictions require annual renewal fees, that often escalate each year.
 - This discourages applicants from keeping patents alive that aren't economically valuable.
 - In many countries (examples: Canada and EPO), annual fees are required even before grant



US Maintenance Fees

- In the US, maintenance fees are required and are due at 3.5 years, 7.5 years, and 11.5 years after the date of issue.
- 6 mos. extension available.
- If the fees aren't paid, the patent will lapse. You cannot sue an infringer for infringement of a lapsed patent.
- Key point: there are service companies that manage these payments. Using them is a good idea.



Patent Term Extensions

- One way of looking at the 20-year patent expiration rule is that it is similar to the old 17-year rule assuming it takes 3 years to get a patent issued, if the applicant and USPTO act diligently
- A big concern when the 20-year rule started in 1995 was that it often took longer than 3 years to get a patent issued through no fault of the applicant. It is not uncommon for a patent application to sit for several years before an examiner picks it up.
- 35 U.S.C. §154(b) was enacted to address this problem, called a "Guarantee of No More Than 3-Year Application Pendency" with a formula for calculating a patent term extension based on delays in patent office and applicant responses.
- These patent term extensions are listed on the front page of an issued patent.
 - Example: US Patent 9,828,164 B2



(12) United States Patent Denson

- (54) INTERMODAL CONTAINER AND METHOD OF CONSTRUCTING SAME
- (71) Applicant: Fontaine Engineered Products, Inc., Jasper, AL (US)
- (72) Inventor: John Clifford Denson, Birmingham, AL (US)
- (73) Assignee: Fontaine Engineered Products, Inc., Jasper, AL (US)

*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 160 days.

- (10) Patent No.: US 9,828,164 B2
 (45) Date of Patent: Nov. 28, 2017
- (56) **References Cited**

DE

EP

- U.S. PATENT DOCUMENTS
- 2,791,463 A 5/1957 Levitt 2,962,323 A 11/1960 McBride (Continued)

FOREIGN PATENT DOCUMENTS

2444523 A1 4/1976 1162058 A1 12/2001 (Continued)

OTHER PUBLICATIONS

Sec. 156 Patent Term Extension

- 35 U.S.C. §156, created in 1984 in the Hatch-Waxman Act
- Can extend the life of a patent for up to five years for regulatory delays for patents on a product requiring regulatory approval.
- Mainly intended for pharmaceuticals but other types of products subject to regulatory approval may be covered also.
- This was part of the quid pro quo in the H-W Act which gave generics the right to use an invention prior to patent expiration. 35 U.S.C. gives the innovator



co.'s a patent term extension to compensate for regulatory delays, which can often take many years.

These are not listed on the front page of a patent. A patent attorney with experience in this rule needs to find this extension in the online file history of a patent.

Shortening Patent Life

- There are situations where a patent owner wants to shorten the life of a patent
- The is done with a "terminal disclaimer"
- The most common reason for filing a TD is to overcome a "double patenting" rejection
- This happens when a patent examiner alleges a second patent application is obvious over an earlier filed patent.
- Often, an applicant can overcome such a rejection by filing a terminal disclaimer to the second patent application, disclaiming the life of the second patent after the expiration of the first patent.
- Terminal disclaimers made during prosecution are listed in the front page of a patent application



More on Terminal Disclaimers

- Terminal disclaimers can also be filed voluntarily for several reasons.
- A patent owner may be charitable and dedicate an invention to the public as charity
- Sometimes settlements of disputes involve a terminal disclaimer



Patents invalidated in the courts

- Patents have a strong presumption of validity (35 U.S.C §282), but patents are often declared invalid and unenforceable following patent litigation actions.
- Accused infringers typically, as a matter of litigation strategy, argue that (1) the patent is invalid and (2) that they are not actually infringing.
- Invalidity arguments are that the patent is not properly patentable subject matter (§101), that the patent is anticipated or obvious over prior art (§102, 103), and/or that the invention is doesn't meet the written description or definiteness requirements (§112).
- Any of these deficiencies can result in one or more claims of a patent being held invalid and unenforceable prior to the natural expiration of the patent.

Conclusions

- General rule: Patents are valid for 20 years from the earliest non-provisional filing date
- A provisional patent application does not count towards the 20-year expiration clock, but a provisional is only valid for one year.
- Maintenance fees (US) or renewal fees are required in most countries following patent grant
- Several patent term extensions may be available.
- Patent life can be shortened with a terminal disclaimer

Thank you!



About the Speaker



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Gallet, Dreyer, & Berkey LLP 845 Third Ave New York, NY 10022 Andrew H. Berks builds and protects patent portfolios for his clients. He is a partner at Gallet, Dreyer, & Berkey LLP. Andrew specializes in all aspect of patent matters and IP transactional matters. Andrew's practice includes

- patent strategy and counseling, patent drafting, prosecution, and appeals
- patent opinions including patentability, freedom to operate, non-infringement and patent landscape reviews
- patent litigation
- license agreements and other IP-related contracts
- confidentiality (non-disclosure) agreements
- research and development agreements

Andrew's prior experience includes work at several law firms and corporate environments, including Wyeth Corp., Merck & Co., and Ivax Pharmaceuticals. Andrew's clients include Fortune 500 corporations, University technology transfer offices, established businesses, foreign companies, entrepreneurs, startups, and individuals. Andrew works in all technology areas, including chemistry, pharmaceuticals, biotechnology, medical devices, mechanical and engineering, and computers and software. Andrew is a graduate of Fordham Law School and has a Ph.D. in organic chemistry from the University of Colorado, Boulder. He has two grown daughters and lives in New York City.

Disclaimer

- This presentation is educational only and does not create a client-attorney relationship.
- This presentation explains how an experienced attorney would approach the topics discussed and is not meant as a "how-to" for inexperienced persons.
- Always consult an experienced attorney for any legal issues you may have.