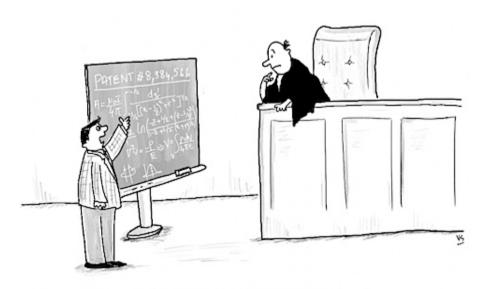
WELCOME TO ...



"So you see your honor, it's obvious."

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Inventing the future:

The importance of inventive and innovative activity in maintaining competitiveness

WIPO Training of Trainers Program on Intellectual Property and Small and Medium Sized Enterprises Warsaw, Poland November 22 to 25, 2010 Larysa A.Kushner

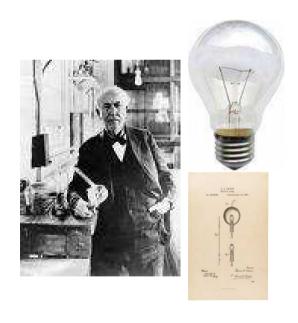
Overview

- 1. Innovations and protection of competitive advantages
- 2. Basics on of invention and patent
- 3. How to obtain patent protection
- 4. Patent management



Innovations and protection of competitive advantages

What do you imagine when you hear the word "patent"? How it relates to your business?







"...A business enterprise has two basic functions:
 marketing and innovation.
 Marketing and innovation produce result;
 all the rest are costs.

Peter Drucker

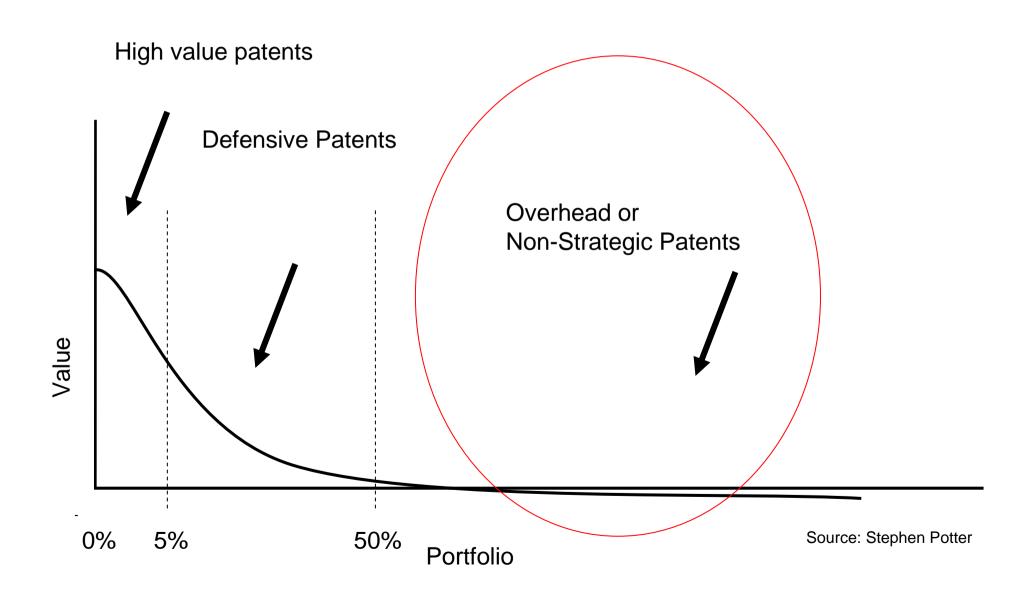
- "Invention" a solution to a specific problem in the field of technology
 - Functionality v. appearance/esthetic elements
 - a useful feature or a performance attribute of an invention, technology or product (new or improved one)



- Patents economic tools
 - Turn technical know-how into tradable assert:

- Competitive edge, market power and earning more money
- Add New Revenue Stream
- Raise funds and attract potential investors
- Bargaining Chip for Securing "Freedom to Operate"
- Strategic Partnerships, Mergers and Acquisitions

In reality however most patents are.... worthless



...nevertheless some have considerable value Cases:

- Opener for sparkling wines, invented in 2000 by the Argentine Hugo Olivera, until then a manufacturer of mechanical spare parts, as a technical solution for the challenge of uncorking bottles of sparkling drinks
- The invention is currently patented in 25 countries and the product is actively exported by **Descorjet** S.A.



- Breathable rubber shoesole, invented by Mario Moretti Polegato as an attempt make shoes more comfortable and healthy
- GEOX company is nowadays the biggest Italian shoemaker oriented in further innovation





Cases: strategy might be different...

Sony Corporation

- In 1946 a small enterprise of some 20 staff members repairing phonographs
- In 1952 the founder of the enterprise came across patent information on an invention of the Bell Laboratories: the transistor
- Obtaining a patent license from the paten holder,
 Western Electric (WE) of the United States of America
- In 1955 production of the first transistor radio and marketing of the new product
- Enabling of the small enterprise to enter the global market of electronics
 - Renamed as Sony Corporation







Strategic considerations before patenting

Need for cost-benefits analysis of patent protection prior to initiating the process:

- Commercial potential of the invention
- Significant costs for obtaining and maintaining patents:
 - (i) application fees and other prosecution fees to be paid to the patent Office;
 - (ii) the costs relating to patent attorneys;
 - (iii) the costs of translation where an application is filed with the foreign patent Office the official language of which is different;
 - (iv) the costs of maintaining patents after grant

Efforts to be made to successfully commercialize the invention



Strategic considerations before patenting

- Is there a market for the invention, the technology or products incorporating it?
- What are the alternatives to the invention, and how do they compare with your invention?
- Is the invention useful for improving an existing product or developing a new product? If so, does it fit in with your company's business strategy?
- Are there potential licensees or investors who will be willing to take the invention to market?
- How valuable will the invention be to your business and to competitors?
- Is it easy to "reverse engineer" your invention from your product or to "invent around" it?
- How likely are others, especially competitors, to invent and patent what you have invented?
- Do the expected profits from an exclusive position in the market justify the costs of patenting?
- Will it be easy to identify infringements of the patent rights and are you ready to invest time and financial resources for enforcing your patent(s)?

Other legal options might be available and be used for protection of your innovation:

Stubbyglove"



- Utility models
- Confidentiality (Trade secrets)
- Contracting ("Non Disclosure" and "Know-how")
- Short innovation circle to maintain the lead time
- Supporting services (e.g., sales and services)
- Technical means of protection (e.g., secret keys, identification codes, passwords etc)



Let's discuss it on a practical example...
 take a look at Exercise 1

Basics on of invention and patent

Patent is a document, issued, upon application, by a government office (or a regional office acting for several countries), which

- describes an invention and
- creates a legal situation in which the patented invention can normally only be exploited (manufactured, used, sold, imported) with the authorization of the owner of the patent



What can be patented

Inventions that are:

- new to the world
 - no previous public notice
 - world/national novelty
- inventive (i.e. not an "obvious" solution to a specialist in the field)
- susceptible of industrial application (useful)
- Differences in national and regional patent systems



What can be patented

- Process
- A machine
- An article of manufacture (manufacture):
- A composition of matter













The most important exceptions from the patentable subject matter:

- Biotech inventions
- Computer programs and business methods

What can be patented

Poland is member of the EPO on 1 March 2004.

The following are **not** considered to be inventions for the purposes of granting European patents (Articles 52,53 of the EPC; Articles 28, 29 of the Act of 30 June 2000 on Industrial Property Law):

- Mere ideas not reduced to practice
- Software as such
- (but algorithms that achieve technical results)
- Business methods
- Medical therapies, plant varieties, etc.
- **..**.

How does the patent application/patent look like?

• Bibliographic information

Inventor, proprietor, date of filing, technology class, etc.

Abstract

Around 150 words as a search aid for other patent applications

Description

- Summary of prior art (i.e. the technology known to exist)
- The problem that the invention is supposed to solve
- An explanation and at least one way of carrying out the invention

Claims

Define the extent of patent protection

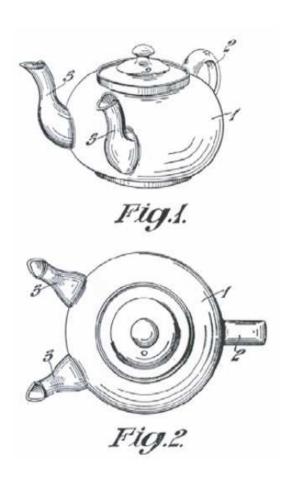
• Drawings

Illustrate the claims and description



Structure of description

- Prior art
 - Teapot with one spout
- Drawback of prior art
 - Time-consuming
- Problem to solve
 - Reduce filling time
- Solution
 - Provide a second spout
- Advantage of the invention
 - The time needed to fill multiple cups is reduced



Patent claims

Inventor wants broadest possible protection

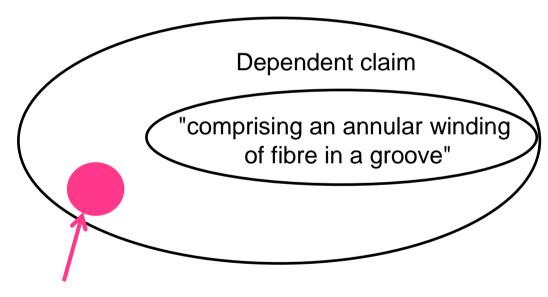


Legal requirements limit the scope of the patent

Claims:

- 1. A wheel
- The device of claim 1, comprising an annular winding of fibre in a groove

Independent claim ("a wheel")



Prior art identified by patent examiner or competitor

What NOT TO DO when considering filing a patent application



No publication prior to filing
 e.g. no article, press release, conference
 presentation/poster/proceedings or blog entry



 No sale of products incorporating the invention prior to filing



• No lecture or presentation prior to filing except under a **non-disclosure agreement** (NDA)



- Seek professional advice soon!
- File before others do!

Problem areas to consider

- Ownership
 - Inventor ≠ Owner
- Employment
- Remuneration
- Commissioned R&D
- Publicly funded R&D
- Collaborative R&D

What rights does a patent confer?

- 1. "Right to exclude" right to prevent third parties from commercially exploiting an invention without authorisation (making, using, offering for sale, or selling the invention, importing)
 - not a 'right or freedom to use" the patented invention
- 2. Right to assign or transfer ownership of a patent and to conclude licensing contracts
- Maximum term of patent protection is 20 years
 Poland: supplementary protection right are available for medicinal products and plant protection products may be granted
- Territorial nature of patent rights
- Patent is enforceable from the date of issue and is presumed to be valid



• Let's discuss it on a practical example...

take a look at the case (exercise 2)

3. How to obtain patent protection

0. Search

Not obligatory, but strongly recommended

- A professional prior art search is an essential part of the process to determine patentability
- It also provides with valuable information:
 - helping to anticipate possible objections at the patent examination stage;
 - revealing any potential infringement on other people's patents;
 - providing information on other patents in that field, (i.e. the competition), on how useful the granted patent would be from a commercial angle, and whether it would be necessary to 'license in' patents owned by others to practice the invention;
 - helping the applicant to decide whether to modify the claims to avoid infringement

Patent granting procedure

1. Filing an application

2. Patent Office:

- Examination as to form (formal examination)
- Search
- Examination as to substance (substantial examination)
- Opposition might be available
- Publication
- Granting a patent and issuing a certificate of grant
- Possibility to appeal the decision

3. Renewal or maintenance fee

* A granted patent has no guarantee of validity





Where to apply for a patent

- National patent offices
- European Patent Office
- Via the Patent Cooperation Treaty
- There is no such thing as an international patent!

Cost of a national patent application: Germany

Patent granted!



Total: EUR 1 700 - EUR 5 100

(depending on complexity of patent and extent of applicant's preparation!

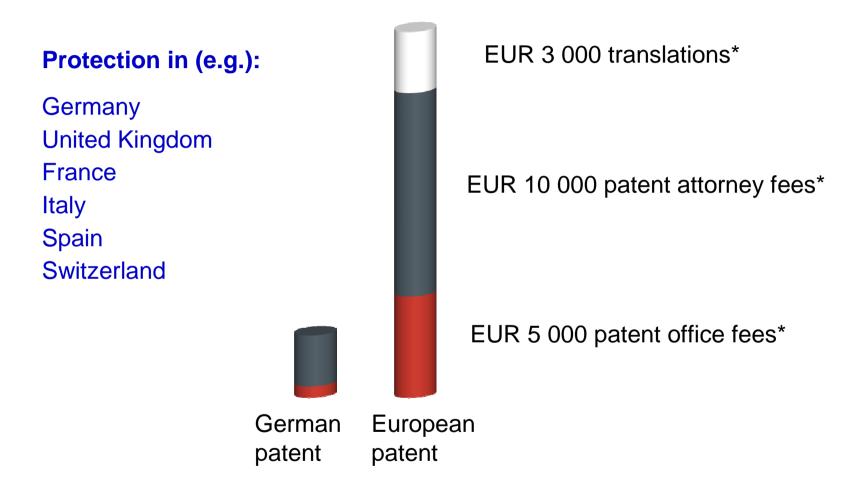
Poland: 550,00 PLN for patent application;

Renewal fees: for the first protection period - 480 PLN,

for the 4th year of protection - 250 PLN

for the 4th year of protection - 1550 PLN

Cost of a European patent up to grant



Source: EPO materials

Estimated cost. Actual cost depends very much on the specifics of the individual case. The total cost of obtaining a typical Euro-direct patent (validated in 6 countries, with 10 claims on 3 pages, 11 pages of description) was about €30,000

Patent Application Costs

The cost of a patent application depends on a number of factors, such as:

- Field of technology
- Nature of the invention
- Length of the application
- Number of claims
- Hourly rate of the patent agent, and total time to prepare and prosecute the application
- Fees charged by the draftsman for preparing any drawings
- Number of countries to be covered
- Route used for filing in other countries
- Translation costs of foreign filings
- Number and nature of objections raised by the patent examiner, and whether there are any opposition proceedings or appeals

4. Patent management

Patent management

Patent strategy

- Offensive/defensive
- Internationalisation
- Kind of exploitation: licensing or own use

Patent information

- Keep abreast of technology
- Avoid infringing patents
- Understand the competitive landscape

Communication

- Compile convincing evidence that your patents are valuable
- Inform investors and banks, clients and prospective employees

Maintenance

- Pay renewal fees, observe deadlines
- Strengthen important patents and get rid of ones with no value

Thank you for your attention!



Any Question?

WIPO's website for SMEs: www.wipo.int/sme

Contact address: larysa.kushner@ehu.lt