

Trade secrets and SMEs

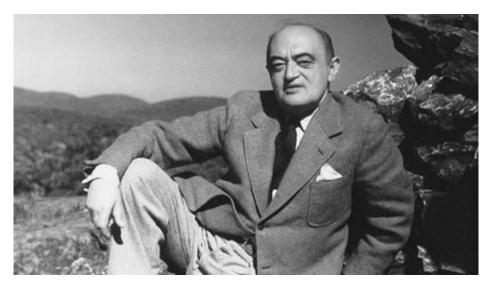
The role of trade secrets within the SME innovation process



Contents

- Background
- Innovation process
- Trade secrets versus patents
- Legal framework: definition of trade secrets
- How to choose?
- How does it work? NDAs, cybersecurity
- Authorised use of trade secrets: know-how contracts, employee/partners contractual safeguards
- How trade secrets can be broken: misappropriation, cyber theft, lawful acquisition, independent discovery, reverse engineering
- Enforcement





Joseph Alois Schumpeter (1883 –1950)

Innovation ≠ **invention**

Innovation = idea + marketplace





INNOVATION PROCESS

Acquisition of technology - commercial use











INNOVATION PROCESS

Acquisition of technology - commercial use

Trade secrets

Patents

Copyright

Trade marks

Designs





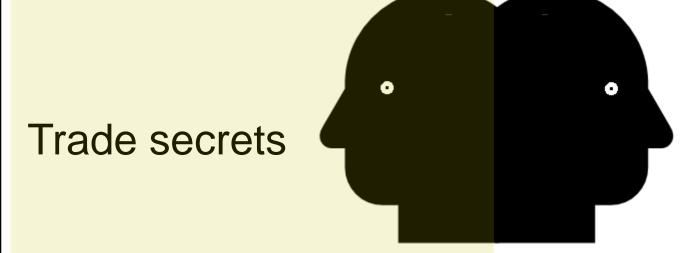








Trade secrets versus patents



Patents



What are trade secrets?







Legal framework of trade secret protection

European Scale

DIRECTIVE (EU) 2016/943 of the European Parliament and of the Council of 8 June 2016

on the protection of undisclosed know-how and business information (trade secrets) against their unlawful acquisition, use and disclosure





Definition of trade secret

DIRECTIVE (EU) 2016/943:

Any information which meets all of the following requirements:

- it is not generally known
- it has commercial value because it is secret
- it has been subject to reasonable steps to keep it secret





Trade secrets





- Trade secrets are not registered in an IP office.
- They do not guarantee exclusivity.



What can be protected as a trade secret?

Information protected through a trade secret can be



strategic for decades

as a recipe or a chemical compound





ephemeral

as the name, appearance, price and launch date of a new product or the price offered in a bidding procedure





Trade secrets versus patents



Patents



Definition of patent



A patent is a legal title granting its proprietor the right to prevent third parties from commercially using an invention without authorisation

Conditions:

- public disclosure
- 20 years
- payment of fees every year
- territoriality.



Definition of patent



In order to be patentable, an invention must:

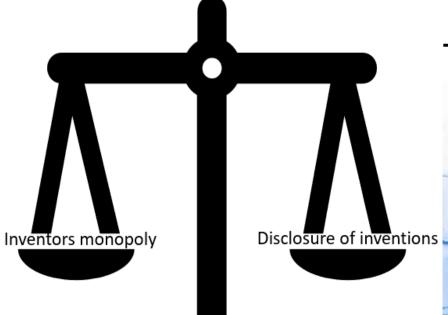
- **be** new,
- involve an inventive step,
- have industrial use.



Patents as technical progress builders

Stimulus for inventiveness





Technical progress

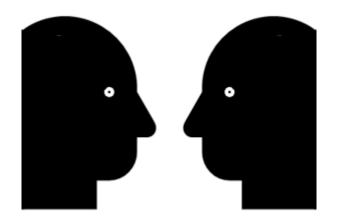


Patents



Trade secrets versus patents

Trade secrets



Patents



Trade secrets versus patents



Patentable subject matter

Non-patentable subject matter

Patents

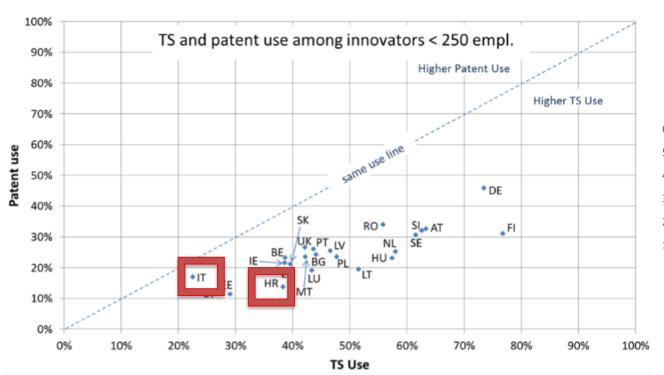
Trade secrets

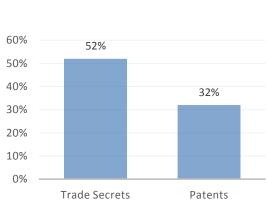
- New industrial processes
- New products
- New machines
- New compositions

- Algorithms, software
- Mathematical formulas
- Contract terms
- Information on customer, suppliers ...
- Business/commercial plans
- Marketing, finance or strategy information
- · 'Negative know-how', e.g. a failed experiment



Trade secrets versus patents: economic importance of trade secrets

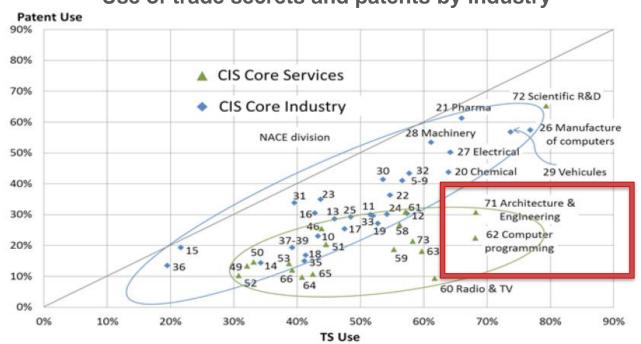






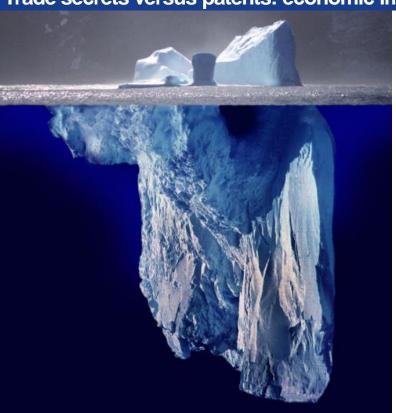
Trade secrets versus patents: economic importance of trade secrets

Use of trade secrets and patents by industry





Trade secrets versus patents: economic importance of trade secrets

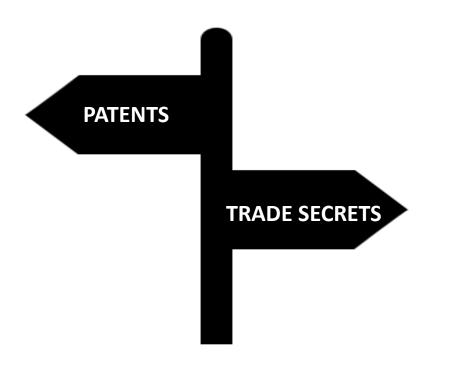


If the intellectual technical assets of a firm were to be seen as an iceberg, patents would be the visible part and trade secrets the submerged part.

Created by Uwe Kils



The choice: trade secrets or patents?





Why get a Patent?

- 10g y / (609, 1) = 1 2
$a^{2}x + a^{3} = (x + a)^{3} \times b^{3} X = b^{4}$
+ N a b w (3w2 + 11 = 4w
$i = \sqrt{-1}$ $\frac{1}{2x+1}$ $\frac{1}{2x+1}$
-x + 2y + z = 6p(x) = (x-r)Q(x) + 2y + z = 6p(x) = 0
3x + 4y - z = 10 x + 2x + x 4
$5x + y + 5z = 1$ $p(x) = x^{5} - 5x^{4} - x^{5}$
5 $(x-1)(x-2)a = A = Q(b+c) = Q.6$
7 Ju = logbx (x-1) + 8 Q T
$\frac{1}{4} = \frac{3x - 37x^{3}}{(x+1)(x-4)} = \frac{3}{2} = \frac{3x - 37x^{3}}{(x-2)^{3}} = \frac{3}{2} = \frac{3}{$
the sale of the tax
$d(x^2-x^2) + (d^2-d^2) = (100) + (x) = ux + p$
$ og_b x + log_b y $ $ ecy + tany + C log_b x^2 - a^m = (x^n - a^n)(x^n + a^n)$
$a + bi)(a - bi) = a^{2} + b^{2} \left((1 - \frac{1}{x}) \sin(x - \ln x) d + \frac{1}{x} \cos b^{2} = 0 \right)$
a + bi = $log x + log (x + i) = log (2x + 5)$

CLIENT	
STATE CONDO I INC.	
PACMAC INC.	
PACMAC INC.	
ASSISTCO ENERGY IND'L CORP.	
BIG RED EAGLE TRADERS CORP.	
GREEN KRAFT CORP.	
GREEN KRAFT CORP.	
GREEN KRAFT CORP.	
GREEN KRAFT CORP.	
ECO PLASTIC PHIL. INC.	
ARK CONDOMINIUM CORP.	
ROCELO BUCAD PROPERTY	
EK HOUSEWARE CENTRE	
SI-WOOK MINIMART	
3 SUN TRADERS CORP.	
CARLO BAUTISTA RES.	
GUIHULNGAN NATIONAL HIGH SCHOOL	
SAN ROQUE GENERAL SERVICES CORP.	
GREEN SIAM PACKAGING CORP.	
GREEN SIAM PACKAGING CORP.	
SUNSHINE HOTEL	
SUNSET HOTEL	
BINGOMANIA	
BINGOMANIA	
BINGOMANIA	

You have valuable information but it is not patentable

Patentable subject matter

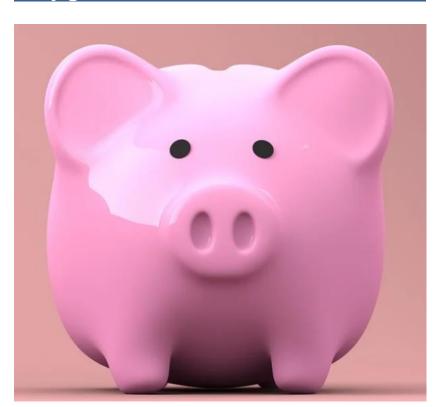
Non patentable subject matter

Patents

Trade Secrets



Why get a patent?



You do not have to pay fees for a trade secret.



Why get a patent?



Trade secrets can last forever.









The innovation process: phases

R&D phase

Market

Trade Secret

Trade mark

IDEA





1963 **1983**







Why get a patent?

If disclosed, legally or illegally, the trade secret's owner cannot prevent others from using the subject of the trade secret.



© Jose Antonio Lagier



PROTECTION

Patents give SMEs protection and monopoly for a specific time.

Why get a patent?



© Mike Cullis KNS News



Why get a patent?

It is not necessary to control secrecy and confidentiality within your company if you are protected with a patent.







OCULAR RESEARCH OUR CHALLENGE ABOUT US BUSINESS AREAS CONTACT









IDEA

The innovation process: phases

R&D phase

Trade Secret

Market

Patent Trade mark

Trade mark

2005

2025

End of patent protection







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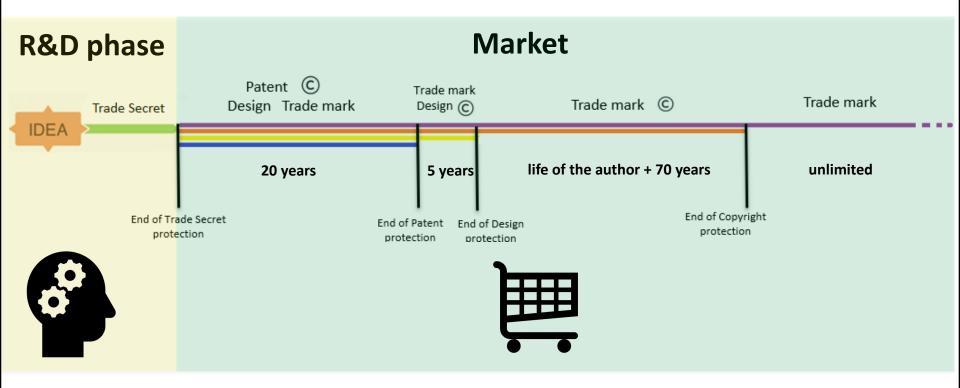


















The innovation process: phases

R&D phase

Trade Secret





IDEA

Market

Trade mark





HOW DOES IT WORK?

The information must be:

- commercially valuable because it is secret, ✓
- be known only to a limited group of persons ✓
 and
- be subject to reasonable steps taken by the rightful holder of the information to keep it secret, ✓ including the use of confidentiality agreements for business partners and employees.



PRECAUTIONARY MEASURES

- 1. Patent or trade secret?
- 2. Restricting access to a limited number of persons.
 - Restricting access to buildings
 - Confidential documents
 - IT security
- 3. Confidentiality agreements within employees' contracts.
- 4. Confidentiality agreements with business partners whenever disclosing confidential information.



EXAMPLE I:

NON-DISCLOSURE AGREEMENT (NDA)

Legally binding contract between parties that requires them to keep certain information confidential.

(!) A trade secret is treated differently from merely confidential information





EXAMPLE II:

CYBERSECURITY

Cybersecurity protocols to protect valuable trade secrets.

What is a reasonable 'cyber' effort?

Cybersecurity technology and case-law are continuously evolving. However, if you possess any trade secret information that is stored or communicated electronically, we recommend, as a minimum, the following:



EXAMPLE II:

CYBERSECURITY

- Appropriate access protections.
- Limit the people who have access.
- Train your employees and agents.
- Appropriate 'BYOD' policy and technology.
- Restrict departing employees' access.
- Monitor and improve your cybersecurity efforts periodically.
- Revisit confidentiality agreements with third parties (reflect cybersecurity protocols).



LAWFUL ACQUISITION - UNLAWFUL ACQUISITION

Trade secret protection confers on owners the right to **prevent** the information lawfully within their control from being:

- disclosed,
- acquired or
- used









Article 3 of the Directive: Lawful acquisition

- (a) independent discovery or creation;
- (b) observation, study, disassembly or testing of a product or object that has been made available to the public or that is lawfully in the possession of the acquirer of the information who is free from any legally valid duty to limit the acquisition of the trade secret;
- (c) exercise of the right of workers or workers' representatives to information and consultation in accordance with Union law and national laws and practices;
- (d) any other practice which, under the circumstances, is in conformity with honest commercial practices.



REVERSE ENGINEERING





PROPERTY RIGHT

TRADE SECRET = PROPERTY RIGHT

They can be assigned or licensed to other persons.

The holder of a trade secret has the right to authorise a third party to access and use the trade secret information.

Conditions / Difficulties:

- Non-disclosure or confidentiality agreement
- Reasonable steps to keep that information secret







Article 4 of the Directive: Unlawful acquisition

Whenever carried out by:

- (a) unauthorised access to, appropriation of, or copying of any documents, objects, materials, substances or electronic files, lawfully under the control of the trade secret holder
- (b) any other conduct which is considered contrary to honest commercial practices.



Article 4 of the Directive: Unlawful acquisition

By a person:

- (a) having acquired the trade secret unlawfully;
- (b) being in breach of a confidentiality agreement or any other duty not to disclose the trade secret;
- (c) being in breach of a contractual or any other duty to limit the use of the trade secret.



Article 4 of the Directive: Unlawful acquisition

(!) It shall also be considered unlawful whenever a person, at the time of the acquisition, use or disclosure, knew or ought, under the circumstances, to have known that the trade secret had been obtained directly or indirectly from another person who was using or disclosing the trade secret unlawfully.





Industrial espionage

Commercial espionage

Breach of confidence

Inducement to breach

Use or disclosure by a third party



Most countries provide for remedies in **criminal**, **administrative**, **commercial** and/or **civil** law, in particular, tort law, contractual law and specific legislation on unfair competition.

Remedies:

- damages
- injunctions
- criminal penalties



The EU adopted a <u>Directive on the Protection of Trade</u> <u>Secrets</u>

on 27 May 2016

- Harmonises the definition of trade secrets;
- Defines the relevant forms of misappropriation;
- Clarifies that reverse engineering and parallel innovation must be guaranteed;
- Harmonises the civil means through which victims of trade secret misappropriation can seek protection.



Civil means through which victims of trade secret misappropriation can seek protection, e.g.:

- stopping the unlawful use and further disclosure;
- removal of the goods from the market;
- right to compensation for damages.





THE BASELINE OF TRADE SECRETS LITIGATION IN THE EU MEMBER STATES

- REGULATORY FRAMEWORK ON THE PROTECTION OF TRADE SECRETS
- 2. PROCEDURAL RULES BEFORE NATIONAL COURTS ON THE PROTECTION OF TRADE SECRETS DURING LEGAL PROCEEDINGS
- 3. TRADE SECRETS HOLDERS' PERCEPTION
- 4. PRECAUTIONARY MEASURES TAKEN BY OWNERS OF TRADE SECRETS TO PROTECT SECRECY LINK
- 5. REMEDIES
 - 1. Civil Action
 - Criminal
 - 3. Administrative





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THANK YOU



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Revision history					
Version	Date	Author	Description		
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