European
IP Helpdesk

ec.europa.eu/ip-helpdesk

European IP Helpdesk

Stay ahead of the innovation game.

Patents and Innovation

10th March 2022

European IP Helpdesk

- Service initiative of the European Commission
- Addressing **current and potential beneficiaries of EU-funded projects, researchers and EU SMEs**
- Free-of-charge first-line support on intellectual property (IP)
- Hands-on IP and innovation management support
- International pool of IP experts from various thematic fields
- Unique cooperation scheme with the Enterprise Europe Network: 48 ambassadors from 28 EU countries

Training
free online and on-site sessions

Website
frequent updates from the world of IP and innovation

Helpline
confidential treatment of individual IP questions

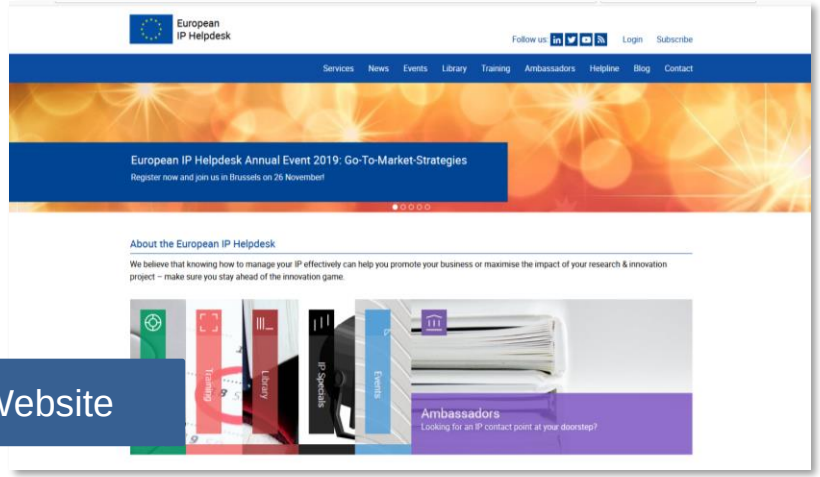
Publications
practical IP knowledge through high-level publications

Ambassadors
local IP support throughout Europe

Events
info point at key networking events and conferences

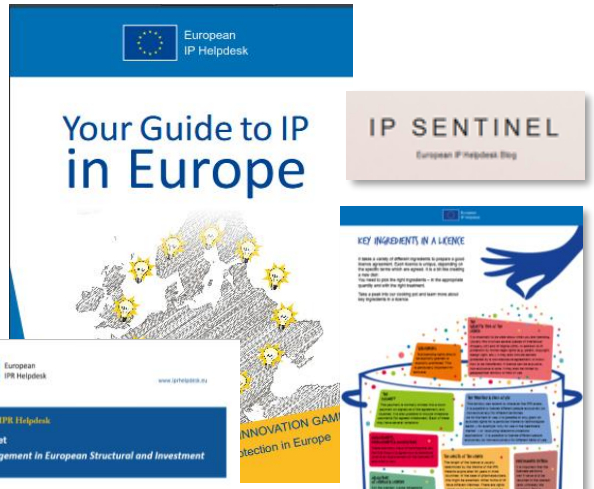
The EC IP Helpdesks

Communication Formats & Outreach Tools

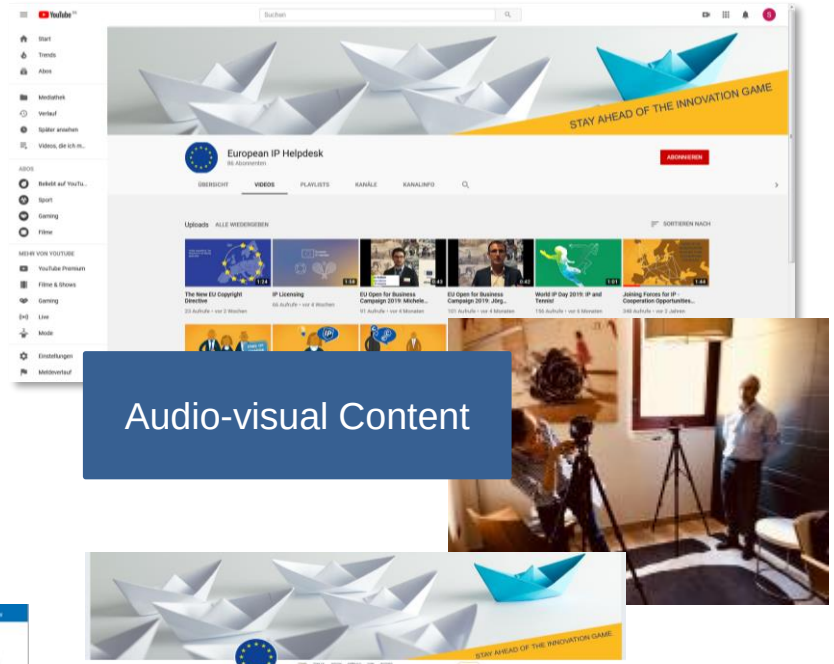


Website

Training



Publications

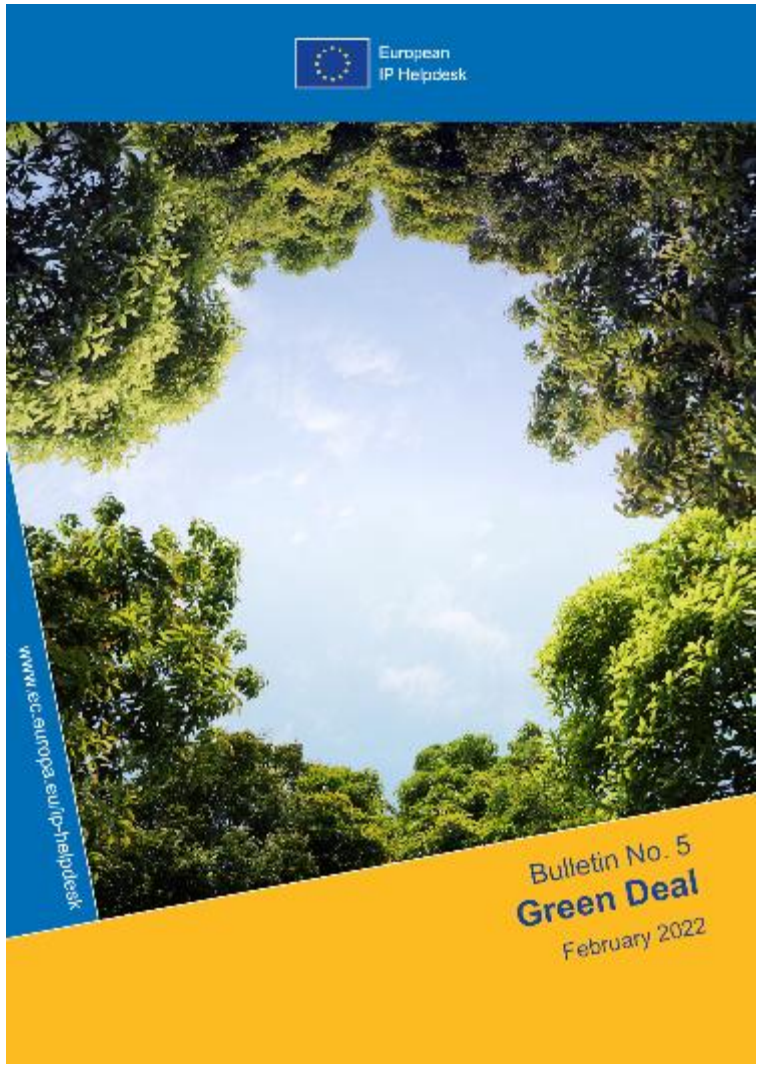


Audio-visual Content

Social Media

New Bulletin! Green Deal!

Contents



Ambassador Scheme

- **Cooperation scheme** with the Enterprise Europe Network (EEN): 48 ambassadors – 28 countries
- **Building IP capacities** among European SMEs
- **Overcoming language barriers**
- Making the topic **more accessible**
- Exchange and feedback from ambassadors on **needs of SMEs**
- Local **awareness** and **training events**

European
IP Helpdesk

ec.europa.eu/ip-helpdesk

09 MAR 2022
TRAINING AND WORKSHOPS
EU - Webinar: Effective IP and Outreach Strategies Help Increase the Impact of Research and Innovation
Live streaming available

10 MAR 2022
TRAINING AND WORKSHOPS
EU - Webinar: Patents and Innovation
Live streaming available

15 MAR 2022
TRAINING AND WORKSHOPS
EU - Webinar: Maximizing the Impact of Horizon project (2020/HEU) results
Live streaming available

15 MAR 2022
CONFERENCES AND SUMMITS
High-growth technology business forum: growth-financing

16 MAR 2022
TRAINING AND WORKSHOPS
EU - Webinar EPO Coop: Patent protection for EU funding beneficiaries - Artificial Intelligence
Live streaming available

23 MAR 2022
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EU - Webinar: The Importance of IP for SMEs
Live streaming available

24 MAR 2022
CONFERENCES AND SUMMITS
High-growth technology business forum: build-to-sell

29 MAR 2022
TRAINING AND WORKSHOPS
EU - Webinar: IP for Future and Emerging Technologies
Live streaming available

06 APR 2022
TRAINING AND WORKSHOPS
EU - Webinar IP Helpdesk Webinar: IPR & Software
Live streaming available

12 APR 2022
TRAINING AND WORKSHOPS
EU - Webinar CPVO Coop: Constraints and opportunities for edited varieties. Is the GMO legal framework impacting the creation of new plants?
Live streaming available

13 APR 2022
TRAINING AND WORKSHOPS
EU - Webinar: IP in EU funded projects with a special focus on MSCA
Live streaming available

20 APR 2022
TRAINING AND WORKSHOPS
EU - Webinar:The new Copyright Directive
Live streaming available

27 APR 2022
TRAINING AND WORKSHOPS
EU - Webinar: IP and Artificial Intelligence - Advanced
Live streaming available

28 APR 2022
TRAINING AND WORKSHOPS
EU - Webinar: Freedom to Operate
Live streaming available

2022

Further learning opportunities:

1. European IP Helpdesk Ambassadors and EEN
2. EUIPO learning portal
3. EUIPO – Ideas Powered for business website
4. WIPO Academy / Diagnostics
5. The Ideas Powered for business SME Fund
6. IPA4SME
7. Horizon IP Scan
8. (IP Booster)
9. Horizon Results Booster
10. LeadershIP4SMEs
11. EPO Academy
12. 4IPCouncil

About me

BSc (Physical) Chemistry (*Exon UK*)
PhD Neutron Science (*Exon UK*)
Harwell (UK), Rutherford Appleton (UK), ILL Grenoble (FR)
Royal Society of Chemistry, Institute of Physics,
Science Council (UK)
HM Govt, X-ray, electron, laser beam microanalysis
Looooooooooooong time at European Patent Office (NL, AT)
Patent examiner (electron and ion optics) IT manager,
…….internet services manager, research manager
Consultant; bring worlds of STEMM and IP together

Roadmap

- IP basics
- Patent basics
- Patent information basics
- Invention vs innovation
- Patent information and innovation

1 500 to 2 000 patents	Data-processing methods, semiconductor circuits, chemical compounds, etc.
Registered design	Shape of phone
Registered trade marks	Brand name, start-up tone
Copyright	Software, ringtones and images

Roadmap

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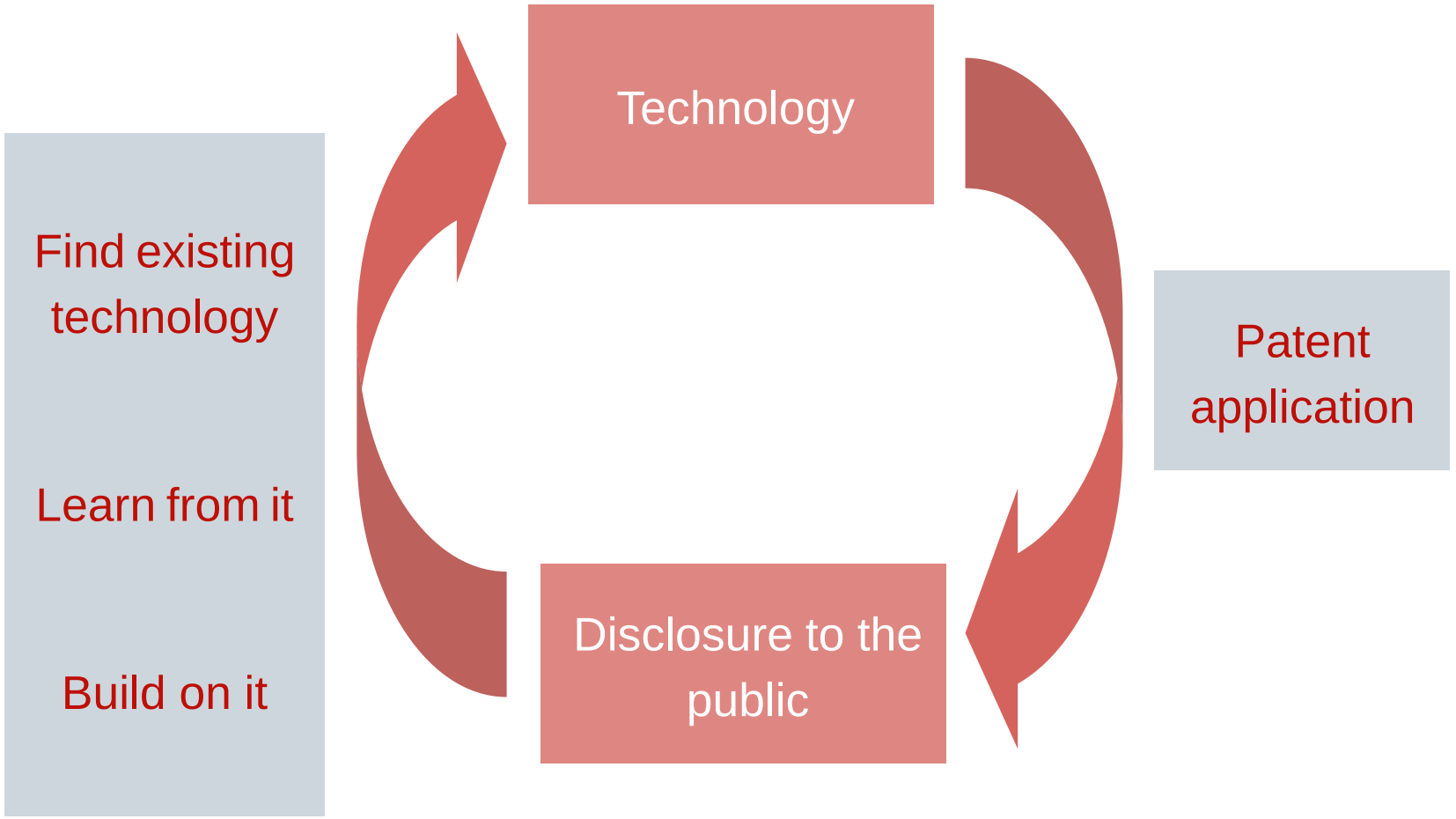
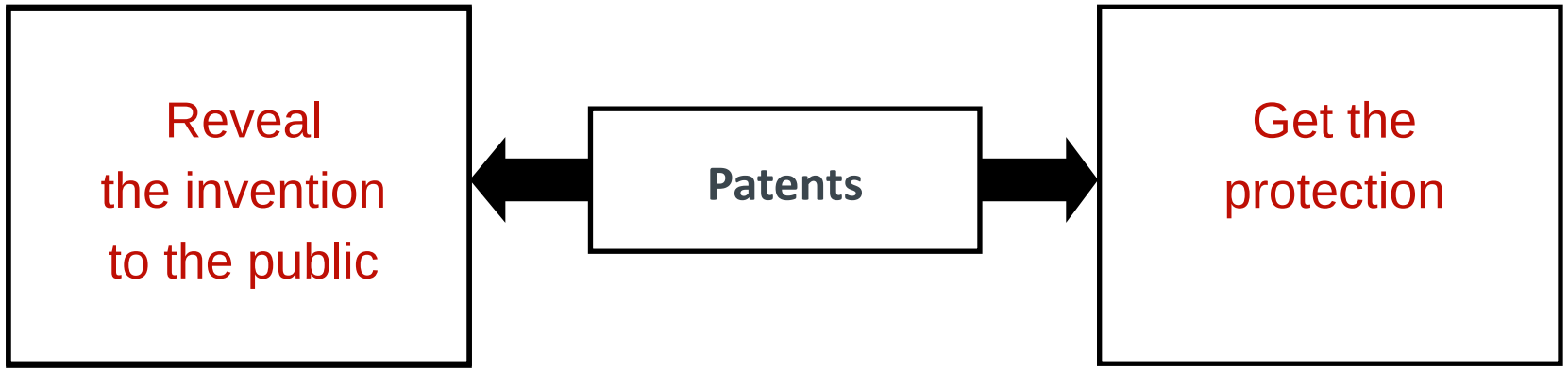
- Patent basics
- Patent information basics
- Invention vs innovation
- Patent information and innovation


Find existing technology
Learn from it
Build on it
Technology
Disclosure to the public
Patent application


Reveal
the invention
to the public
Patents
Get the
protection

Patentability

Patents are granted for inventions in all fields of technology

To be patentable, inventions must

- be **new**
- involve an **inventive step**
- be **industrially applicable**

They must relate to a product, process, apparatus or use.

Patentability - new

- Novel
- Never been seen in public (print, media, conference....)
- Patent first, then publish

Patentability – inventive step

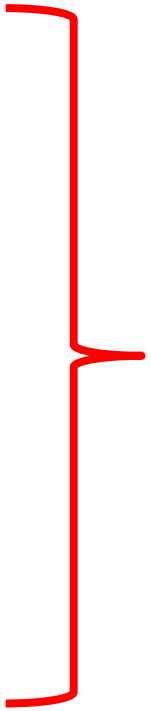
- Not obvious
- Expert in the field
- Would look - not could look
- Thinking outside the box

Patentability – industrially applicable

- Industry
- Agriculture
- Technical consumer goods, products, services

Patentability

- Product
- Process
- Apparatus
- Use



Allowable in one patent application but only one single inventive concept

Excluded

- Discoveries
- Scientific theories
- Mathematical methods
- Computer programs
- Aesthetic creations
- Business methods
- Methods for playing games
- Methods for performing mental acts
- Presentations of information

If claimed "as such"

Exemptions

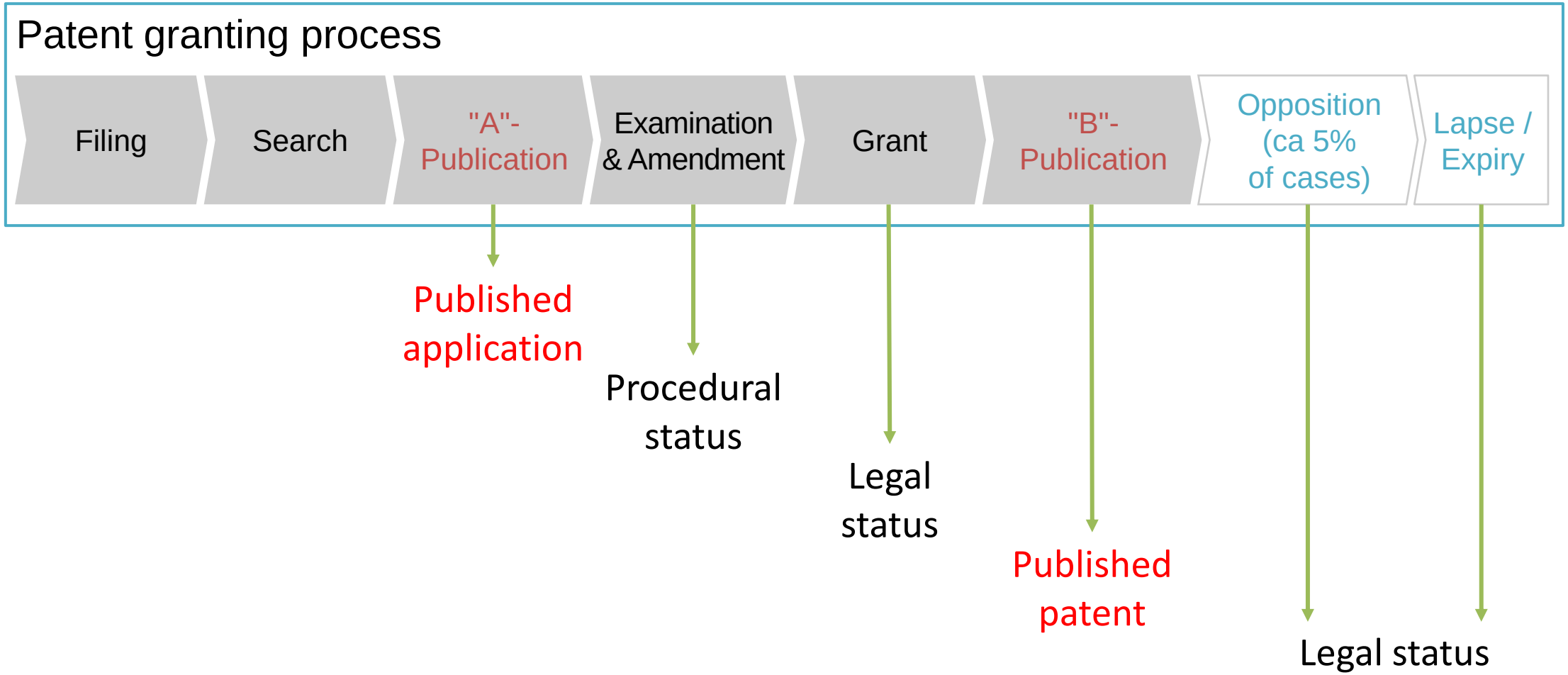
- Plant or animal varieties

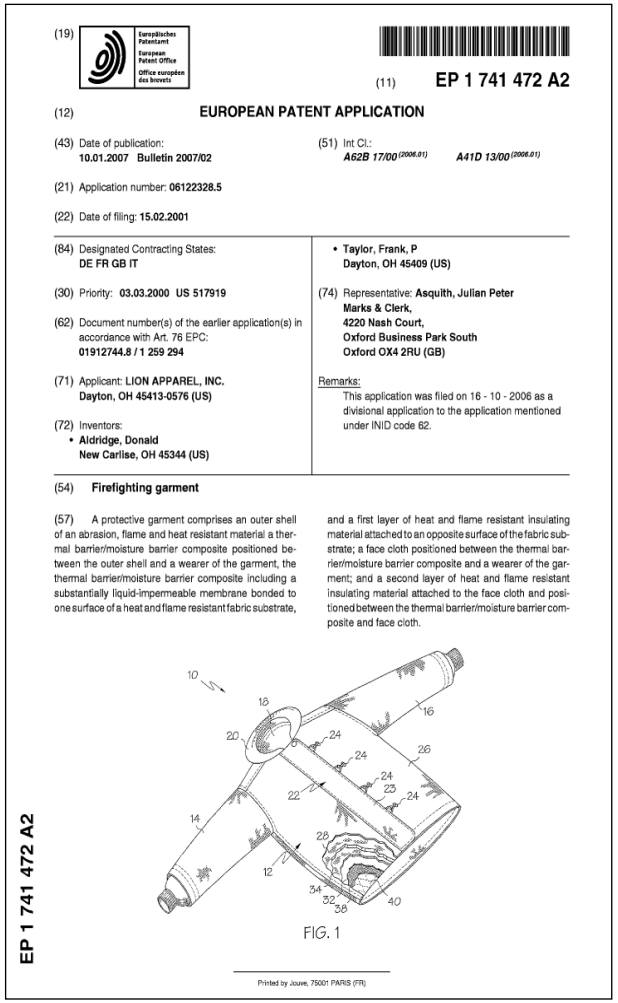
- Inventions whose commercial exploitation would be contrary to "ordre public" or morality (e.g. processes for cloning of human beings)

- Methods for treatment of the human or animal body by surgery or therapy and diagnostic methods

Roadmap

- IP basics
- Patent basics
- Patent information basics
- Invention vs innovation
- Patent information and innovation


Patent granting process
Filing
Search
"A"- Publication
Examination & Amendment
Grant
"B"- Publication
Opposition (ca 5% of cases)
Lapse / Expiry
Published application
Procedural status
Legal status
Published patent
Legal status



(19) Europäisches Patentamt / European Patent Office / Office européen des brevets

(11) EP 1 741 472 A2

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
10.01.2007 Bulletin 2007/02

(51) Int Cl.:
A62B 17/00 (2006.01) *A41D 13/00* (2006.01)

(21) Application number: 06122328.5

(22) Date of filing: 15.02.2001

(84) Designated Contracting States:
DE FR GB IT

(30) Priority: 03.03.2000 US 517919

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
01912744.8 / 1 259 294

(71) Applicant: LION APPAREL, INC.
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Marks & Clerk,
4220 Nash Court,
Oxford Business Park South
Oxford OX4 2RU (GB)

Remarks:
This application was filed on 16 - 10 - 2006 as a divisional application to the application mentioned under INID code 62.

(54) Firefighting garment

(57) A protective garment comprises an outer shell of an abrasion, flame and heat resistant material a thermal barrier/moisture barrier composite positioned between the outer shell and a wearer of the garment, the thermal barrier/moisture barrier composite including a substantially liquid-impermeable membrane bonded to one surface of a heat and flame resistant fabric substrate, and a first layer of heat and flame resistant insulating material attached to an opposite surface of the fabric substrate; a face cloth positioned between the thermal barrier/moisture barrier composite and a wearer of the garment; and a second layer of heat and flame resistant insulating material attached to the face cloth and positioned between the thermal barrier/moisture barrier composite and face cloth.

FIG. 1

EP 1 741 472 A2

Printed by Jouve, 75001 PARIS (FR)

Title of the invention, name of the inventor

Detailed description of the invention: how it is constructed, how it is used, benefits compared with what already exists

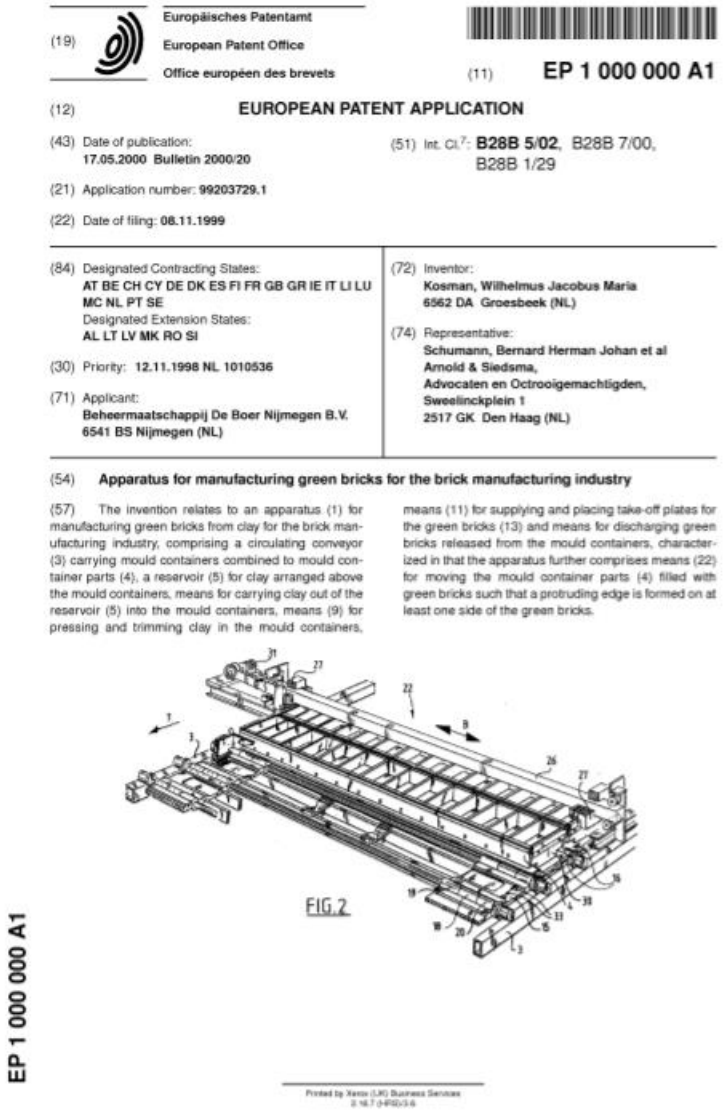
Claims providing a precise definition of what the patent protects

Drawings

Abstracts: summary of the invention – particularly useful for search engines

Structure of Patent Documents

- Front Page
- Bibliographic Data
- Title
- Abstract
- Description
- Drawings
- Claims
- Search Report



(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 000 000 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
17.05.2000 Bulletin 2000/20

(51) Int. Cl.[7]: B28B 5/02, B28B 7/00, B28B 1/29

(21) Application number: 99203729.1

(22) Date of filing: 08.11.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 12.11.1998 NL 1010536

(71) Applicant:
Beheermaatschappij De Boer Nijmegen B.V.
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(72) Inventor:
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6562 DA Groesbeek (NL)

(74) Representative:
Schumann, Bernard Herman Johan et al
Arnold & Siedsma,
Advocaten en Octrooigemachtigden,
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2517 GK Den Haag (NL)

(54) Apparatus for manufacturing green bricks for the brick manufacturing industry

(57) The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers, means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.

FIG 2

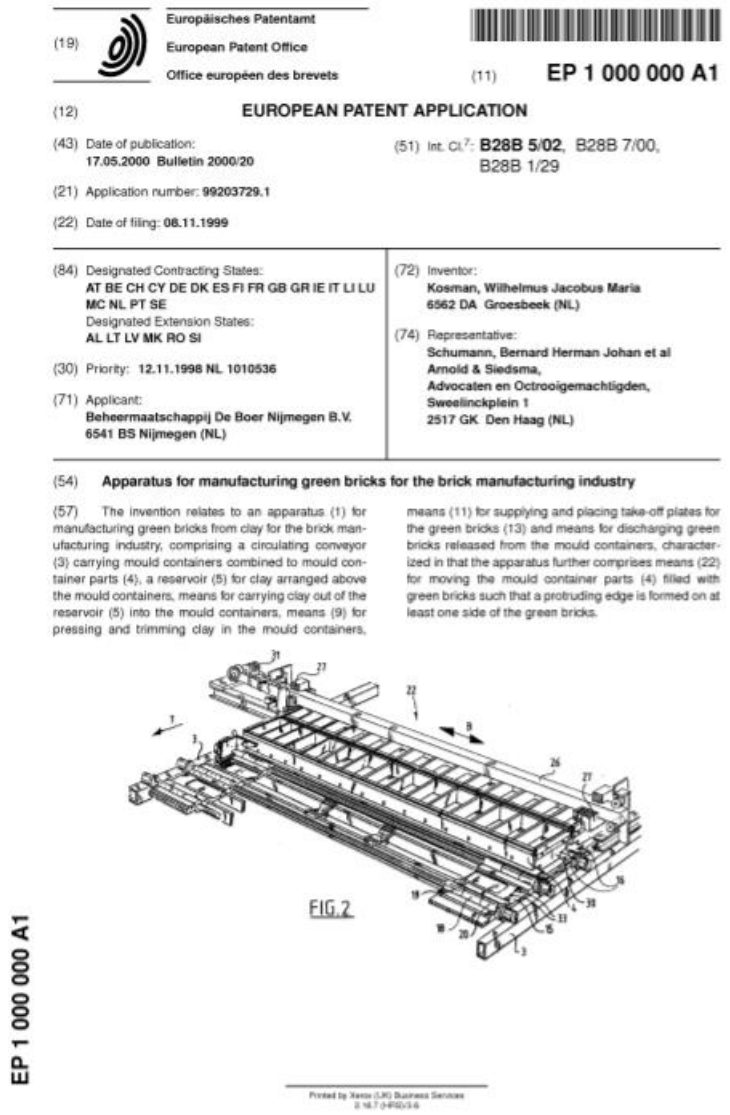
EP 1 000 000 A1

Front Page

- Dates
- Priority, application, publication nos.
- IPO ID
- Inventors
- Applicants
- Representatives
- Titles
- Classification

Abstracts

Image (if available)



(19) Europäisches Patentamt
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(11) EP 1 000 000 A1

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(43) Date of publication:
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FIG.2

EP 1 000 000 A1

Description

Enabling disclosure

Rigorous

Language sometimes difficult

Text, keywords, synonyms

Description

[0001] The invention relates to an apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carrying mould containers combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the reservoir into the mould containers, means for pressing and trimming clay in the mould containers, means for supplying and placing take-off plates for the green bricks and means for discharging green bricks released from the mould containers. Such an apparatus is known in the field and is for instance described in the patent 1000186 of applicant. The known apparatus is extremely suitable for automated production of large numbers of green bricks for the brick manufacturing industry. The bricks fired from these green bricks have a substantially smooth, uniform appearance.

[0002] A recent demand has developed on the market for bricks which appear as if they have been manufactured according to traditional methods.

[0003] The invention has for its object to adapt the known apparatus such that it can produce in automated manner large numbers of green bricks with a traditional appearance.

[0004] For this purpose the apparatus according to the invention has the feature that the apparatus further comprises means for moving the mould container parts filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.

[0005] The bricks fired from the green bricks produced using the apparatus according to the invention impart beautiful shadow effects to the wall into which they have been built when the sun shines thereon. This aesthetic effect is an important commercial advantage.

[0006] The edge-forming means are preferably adapted to move the mould container parts repeatedly for a certain period. Repetition a number of times, for instance three times, is found in practice to be sufficient to obtain the intended effect.

[0007] In a practical preferred embodiment the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.

[0008] In a further preferred embodiment the edge-forming means comprise a frame which is adapted to engage individually on a mould container part. This preferred embodiment has the significant advantage that the edge-forming means can act on one mould container part while another mould container part undergoes another operation and is for instance filled with clay. The edge-forming means can therefore be added to the known apparatus without this affecting the production time.

[0009] In yet another preferred embodiment the frame spans the mould container part and is provided on both sides with stop members which are situated during operation at the location of the side walls of the mould container part. An exceptionally compact embodiment of the invention is hereby realized which utilizes the available space economically and can be arranged without difficulty on the known apparatus.

[0010] In order to prevent unnecessary damage to the mould container parts, these latter are provided on their side walls with stop surfaces, preferably of plastic. In preference the stop members of the frame of the edge-forming means are also provided with these, preferably plastic, stop surfaces.

[0011] The invention is described in more detail hereinbelow with reference to the drawing in which:

figure 1 shows schematically a preferred embodiment of the apparatus according to the invention;
figure 2 shows in more detail a perspective view of a part of the apparatus of figure 1 with the edge-forming means therein;
figure 3 shows the edge-forming means of figure 2 in even more detail;
figure 4 is a perspective view of a first preferred embodiment of a mould container part which is suitable for use in the apparatus according to the invention;
figure 5 is a perspective view of a second preferred embodiment of a mould container part; and
figure 6 shows schematically a part of a wall which has been built using bricks provided with an edge and fired from the green bricks manufactured using the apparatus according to the invention.

[0012] Like components are provided in the figures with like reference numerals.

[0013] Figure 1 shows a preferred embodiment of an apparatus for manufacturing green bricks for the brick manufacturing industry according to the invention. Apparatus 1 comprises a conveyor 3. Mould containers combined to a unit are placed in the form of a mould container part 4 on the conveyor. The mould container parts fit closely against each other. Placed above the mould containers is a reservoir 5 for clay which is kept in continuous movement by an agitator 6 which is driven by the electric motor 7. Clay is supplied to reservoir 5 by a circulating conveyor 8. The clay is carried out of reservoir 5 into the mould containers and then pressed down by pressing device 9 which is pivotable on shaft 10. The excess clay is also trimmed using means which are not drawn. The device 11 carries take-off plates 12 onto a mould container part such that, after turning over of the mould container part, the green bricks 13 come to lie on the plates after being released from the mould containers.

[0014] Edge-forming means 22 are arranged between device 9 and device 11. The edge-forming means move each mould container part 4 such that a protruding edge forms on the upper side of the green bricks received therein.

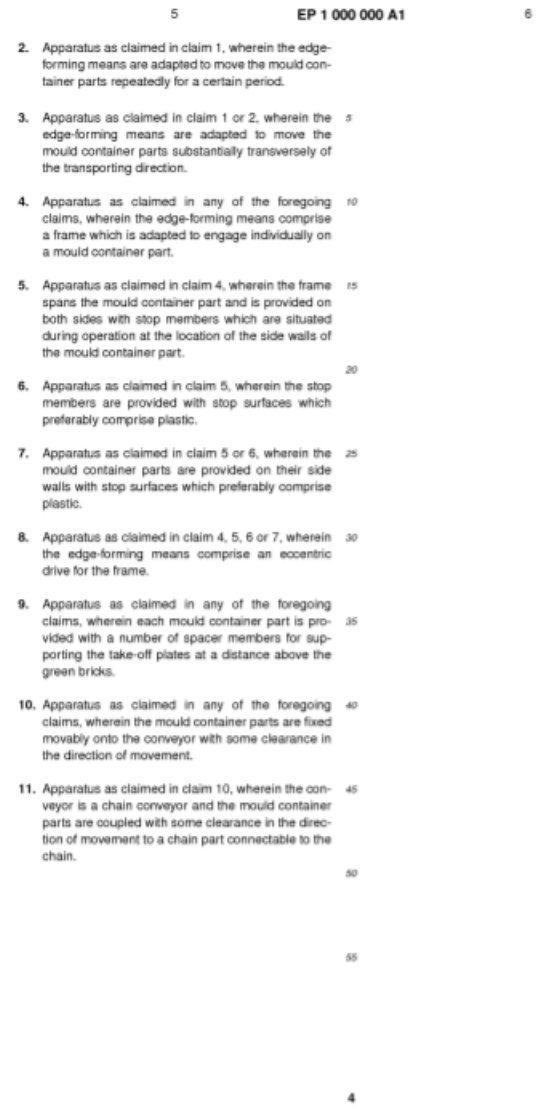
Claims

Claimed scope of protection (as filed)

Independent and dependent claims

Product, process, apparatus, use

Text, synonyms



5 EP 1 000 000 A1 6

2. Apparatus as claimed in claim 1, wherein the edge-forming means are adapted to move the mould container parts repeatedly for a certain period.

3. Apparatus as claimed in claim 1 or 2, wherein the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.

4. Apparatus as claimed in any of the foregoing claims, wherein the edge-forming means comprise a frame which is adapted to engage individually on a mould container part.

5. Apparatus as claimed in claim 4, wherein the frame spans the mould container part and is provided on both sides with stop members which are situated during operation at the location of the side walls of the mould container part.

6. Apparatus as claimed in claim 5, wherein the stop members are provided with stop surfaces which preferably comprise plastic.

7. Apparatus as claimed in claim 5 or 6, wherein the mould container parts are provided on their side walls with stop surfaces which preferably comprise plastic.

8. Apparatus as claimed in claim 4, 5, 6 or 7, wherein the edge-forming means comprise an eccentric drive for the frame.

9. Apparatus as claimed in any of the foregoing claims, wherein each mould container part is provided with a number of spacer members for supporting the take-off plates at a distance above the green bricks.

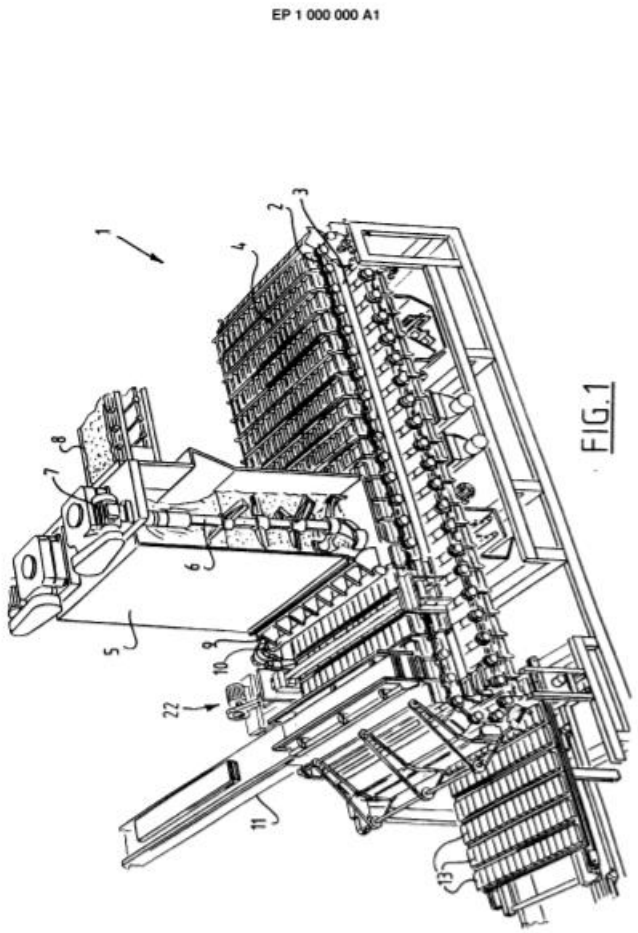
10. Apparatus as claimed in any of the foregoing claims, wherein the mould container parts are fixed movably onto the conveyor with some clearance in the direction of movement.

11. Apparatus as claimed in claim 10, wherein the conveyor is a chain conveyor and the mould container parts are coupled with some clearance in the direction of movement to a chain part connectable to the chain.

4

Drawings

Worth a thousand words

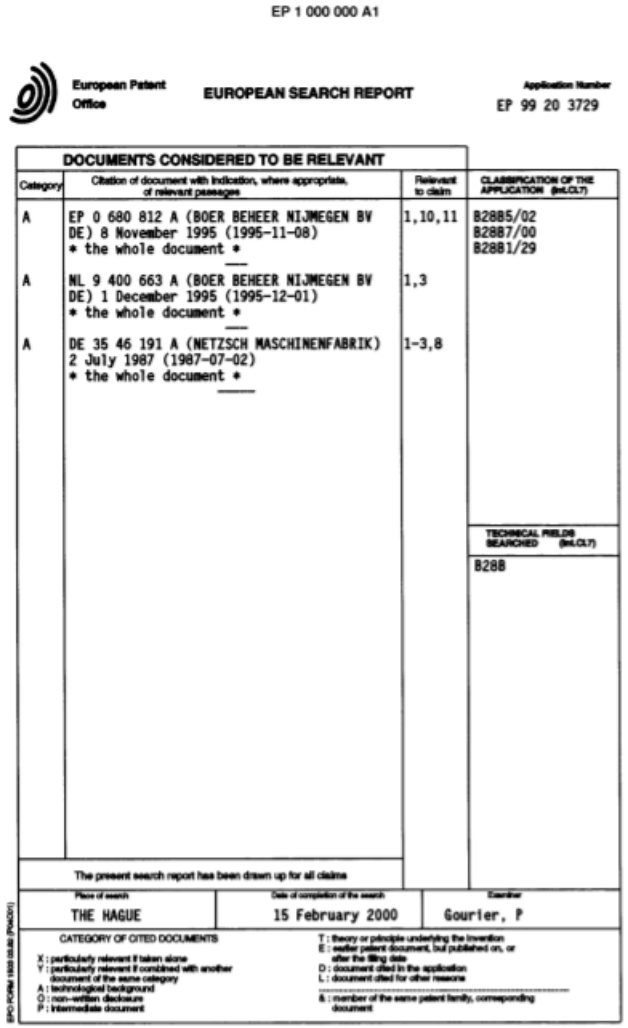


Search Report

X – novelty

Y-Y - inventive step

A - general prior art



EP 1 000 000 A1

European Patent Office — EUROPEAN SEARCH REPORT — Application Number EP 99 20 3729

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	EP 0 680 812 A (BOER BEHEER NIJMEGEN BV DE) 8 November 1995 (1995-11-08) * the whole document *	1,10,11	B28B5/02 B28B7/00 B28B1/29
A	NL 9 400 663 A (BOER BEHEER NIJMEGEN BV DE) 1 December 1995 (1995-12-01) * the whole document *	1,3	
A	DE 35 46 191 A (NETZSCH MASCHINENFABRIK) 2 July 1987 (1987-07-02) * the whole document *	1-3,8	

TECHNICAL FIELDS SEARCHED (Int.Cl.7): B28B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	15 February 2000	Gourier, P

CATEGORY OF CITED DOCUMENTS
X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P04C01)

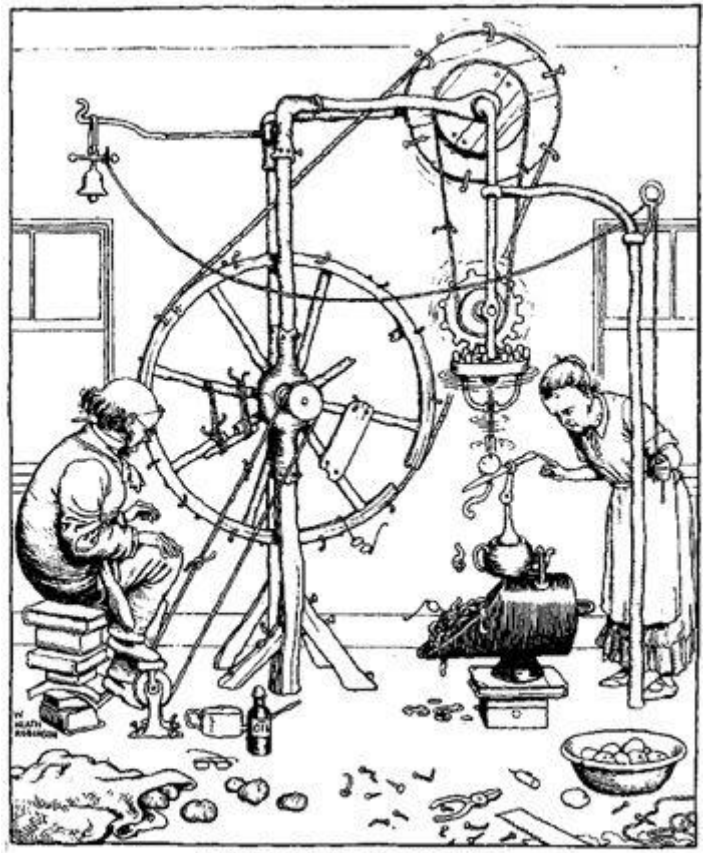
Roadmap

- IP basics
- Patent basics
- Patent information basics
- Invention vs innovation
- Patent information and innovation

Invention – mouse kept alive for more than 90 years

Invention

- EPO – no definition of “invention”
- Except: “technical effect”
- Technical?



The Professor's invention for peeling potatoes.

Innovation

- Technical innovation
- A process
- From ideation to commercialisation

Innovation ≠ Invention

CREATIVITY

The act of turning new and imaginative ideas into reality.

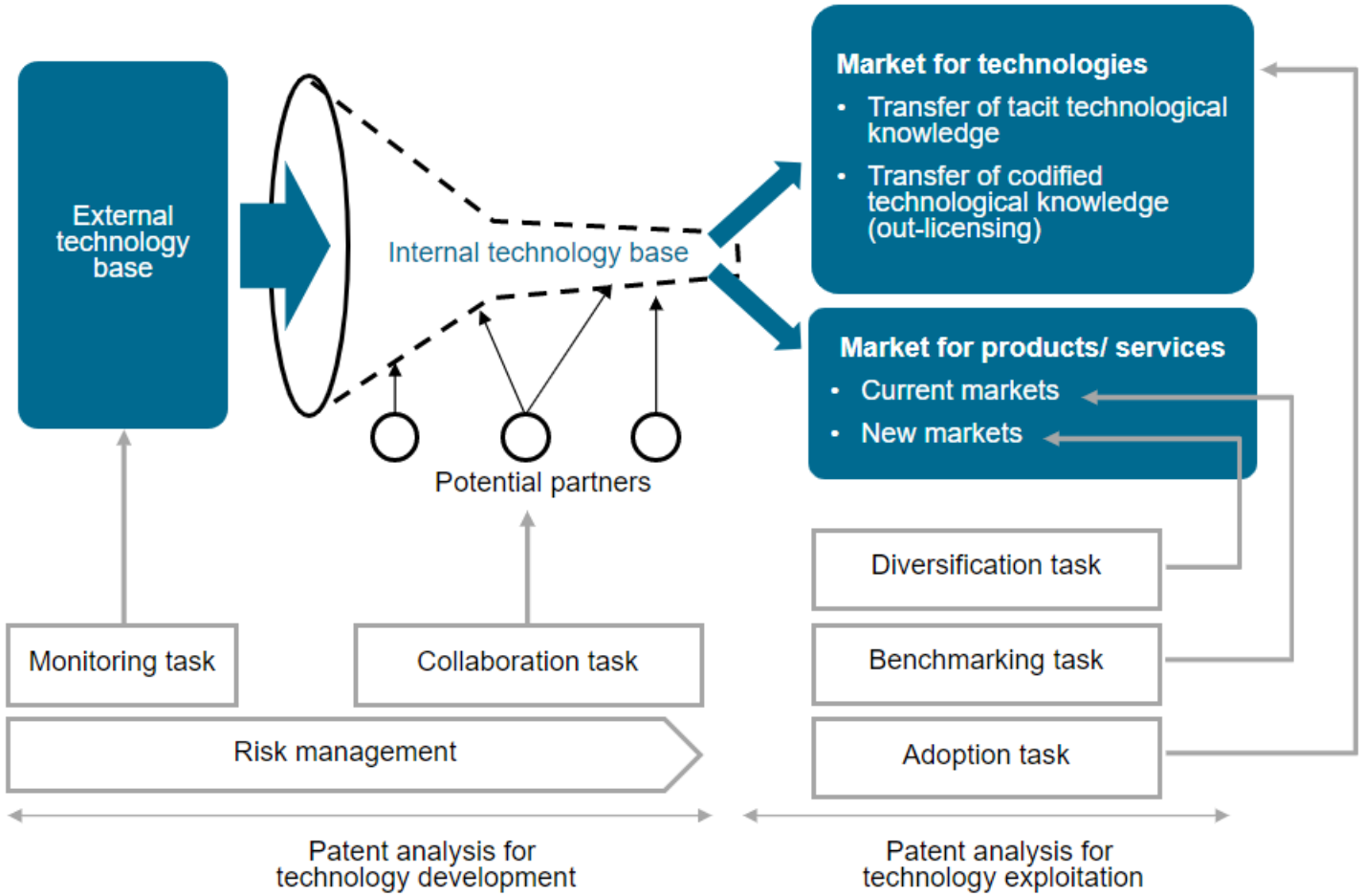
INVENTION

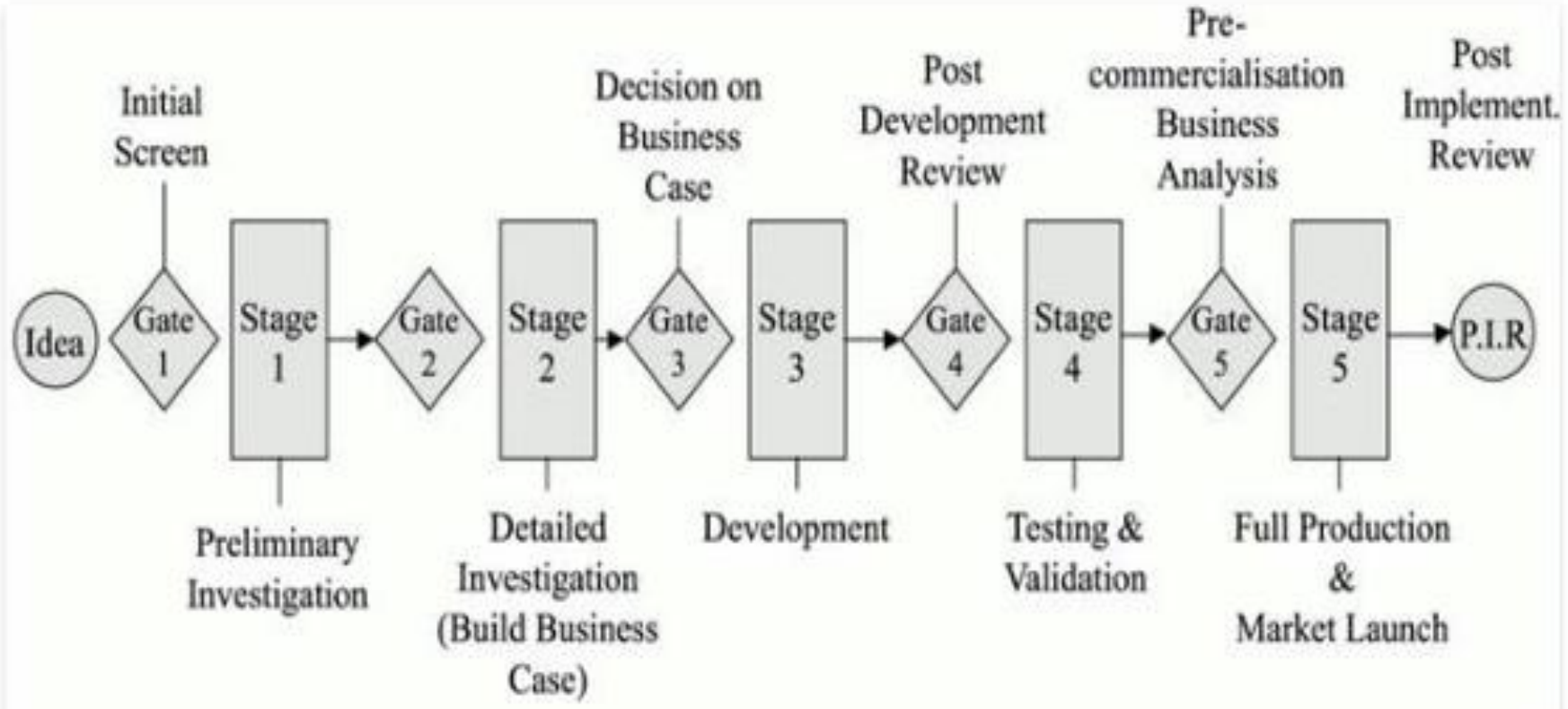
Creation of a new idea or concept

INNOVATION

Turning a new concept into commercial success or widespread use

Source: https://innoway.me|@innoway_me


External technology base
Internal technology base
Potential partners
Market for technologies
• Transfer of tacit technological knowledge
• Transfer of codified technological knowledge (out-licensing)
Market for products/ services
• Current markets
• New markets
Diversification task
Benchmarking task
Adoption task
Monitoring task
Collaboration task
Risk management
Patent analysis for technology development
Patent analysis for technology exploitation



Cooper, Robert G. (1993). *Winning at New Products: Accelerating the Process from Idea to Launch* (2 ed.). Cambridge, Massachusetts: Basic Books. ISBN 978-0-201-56381-8.

Roadmap

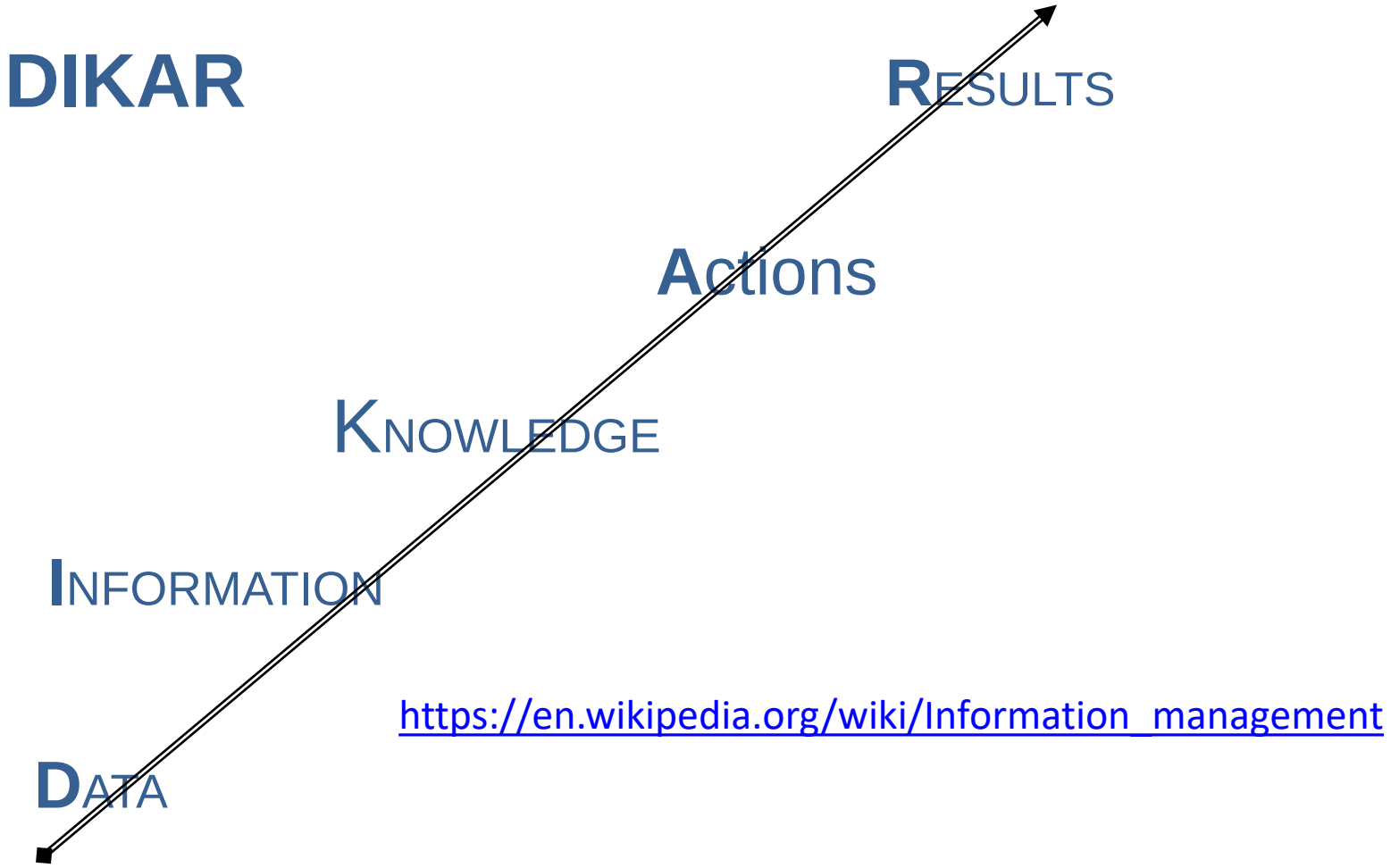
- IP basics
- Patent basics
- Patent information basics
- Invention vs innovation
- Patent information and innovation

The role of patent information in innovation

EPO 2017

https://documents.epo.org/projects/babylon/eponet.nsf/0/F2E016B9DA1EC24AC125813D0056D720/$File/information_in_the_innovation_process_survey_results_en.pdf

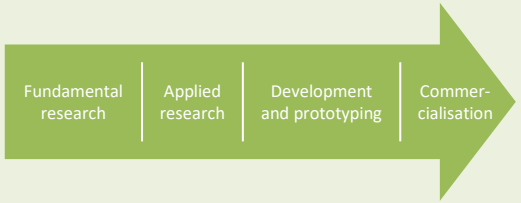
Does patent information support innovation?



https://en.wikipedia.org/wiki/Information_management

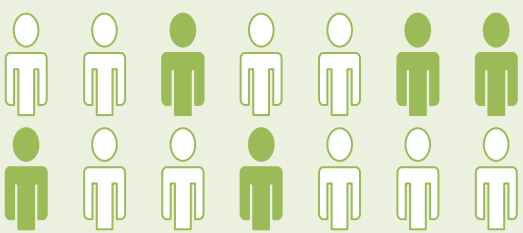
• Research

Model of the innovation process



Identify innovators

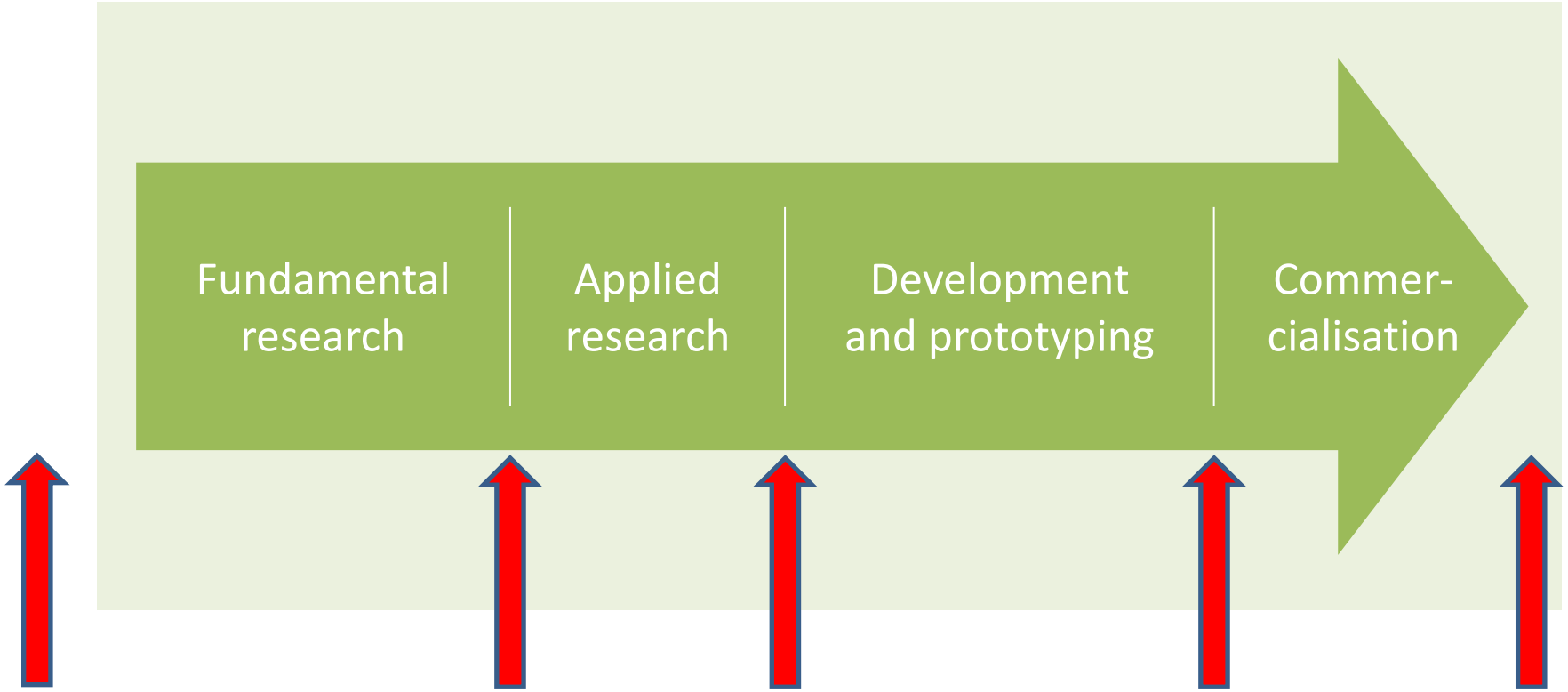
- Business / technology platforms
- **no** IP experts!



1. small group, qualitative answers
   → list of questions
2. larger group, quantitative evaluation

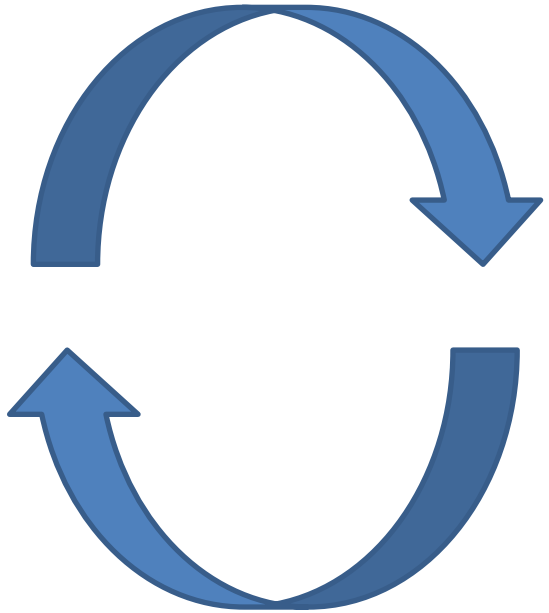
supported by market research experts

• The innovation process



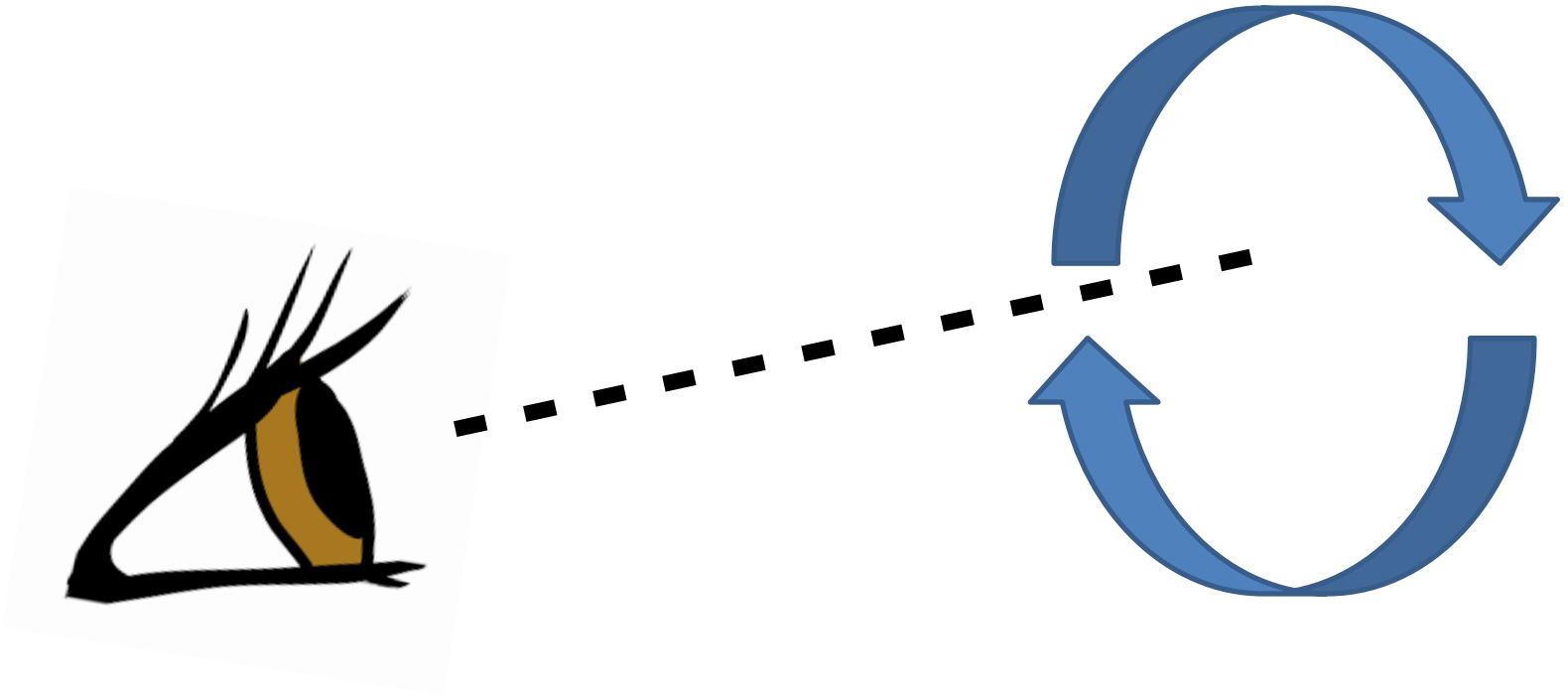
Linear – one off - process

Innovation cycle – continued innovation

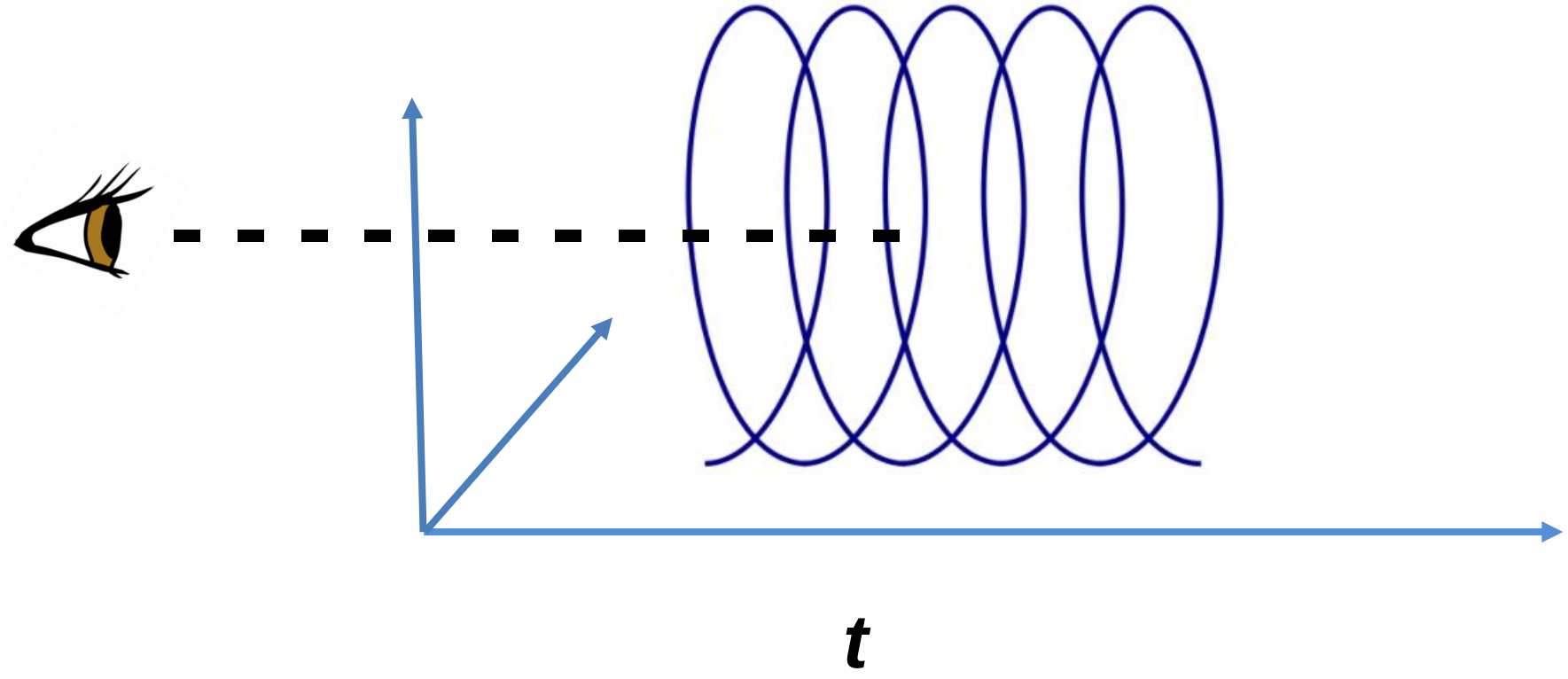


The first rule of business is to stay in business

Innovation cycle – continued innovation

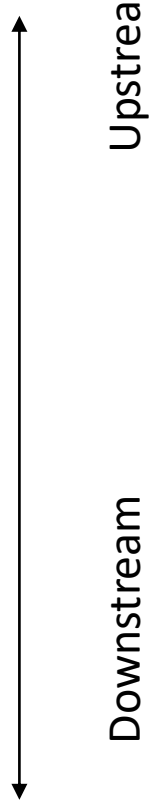


Helix



Applications of patent information

- Funding propositions
  - Bank Loans
  - Venture Capital
- Valuation
  - Intangible assets
- Licensing
- Technology Transfer
  - Disposal, trade outright sale
  - or assignment

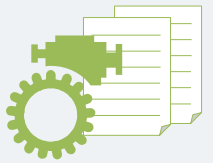


- Prior art/state-of-the art
- Novelty/patentability
- Technology watch/competitive intelligence
- Legal status
- Freedom to act

• Why patent information matters in innovation

- Avoid duplication of R&D expenditure
- Find out what technology already exists and build on it

→ Technical information

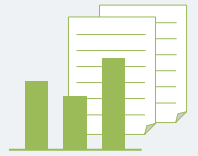


- Check where an invention is protected (and where it is not)
- Avoid infringing other people's patent rights

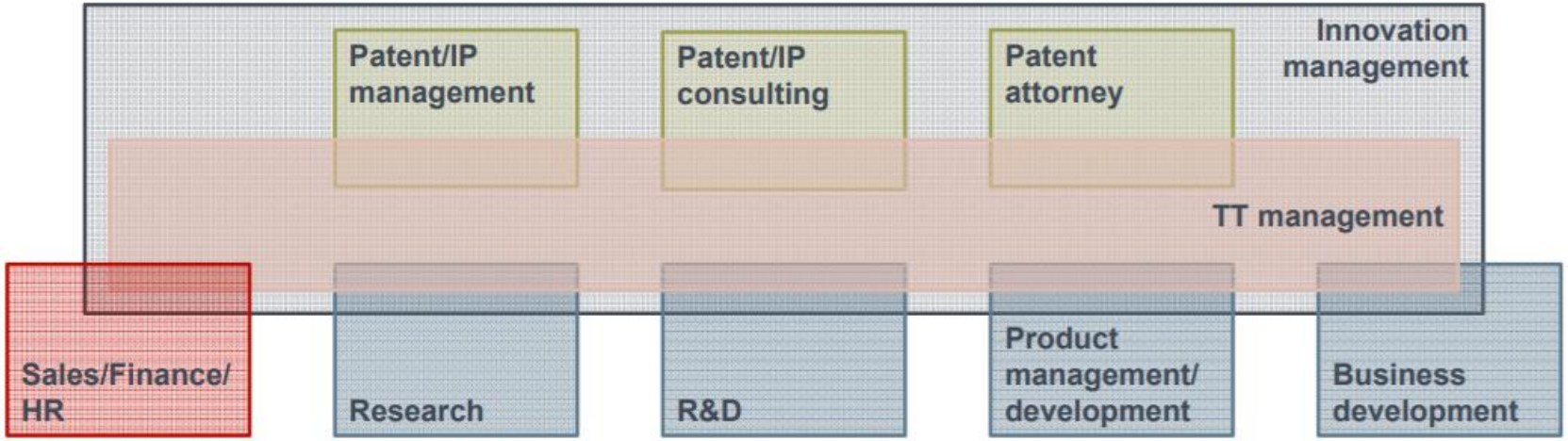
→ Legal information

- Keep track of what others are doing
- Identify new partners, e.g. for licensing
- Spot trends in technology or the market

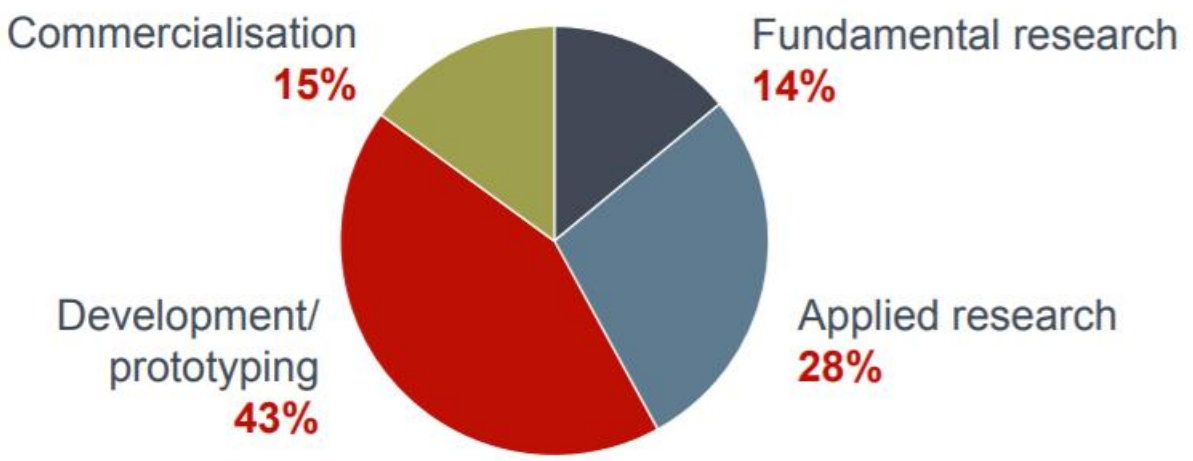
→ Business information



Mapping of innovation process actors

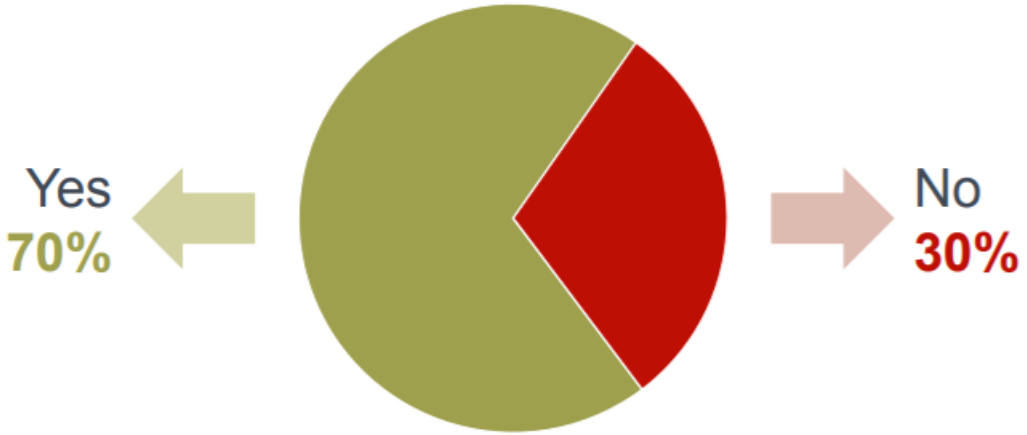


Innovators´ activity



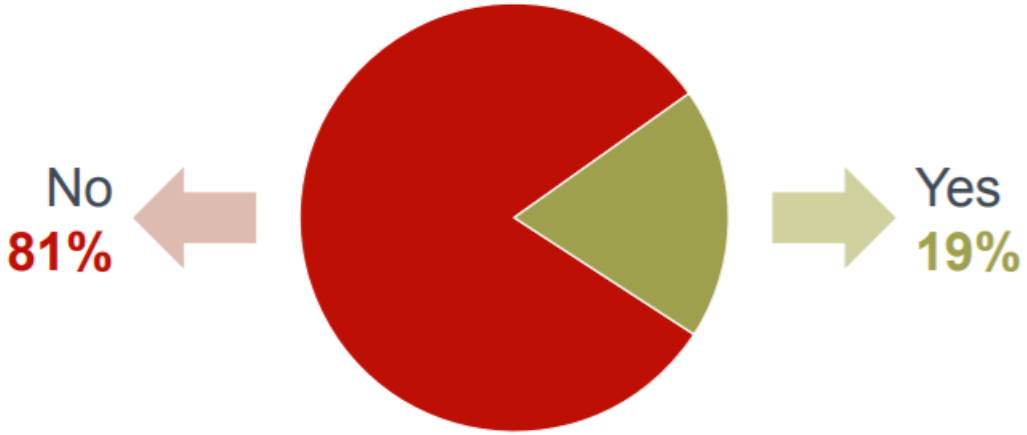
Users vs. non-users of patent information as information source

Are patents used as a source of information in the innovation process?



Past usage of patent information as an information source

Have you used patent information in the past?



Take home messages

Use (free) patent databases to **retrieve strategic information**.

> Consult them **before** and **during** research, development and commercialisation. Throughout the innovation process

Patent information is an important source of **technical**, **legal** and **business-related information**.

Use free sources to **identify existing technologies**, gaps in technology, **key players**, potential **infringement** and **trends**.

Consult the experts for mission critical decisions

Acknowledgements

- Dr Frank Tietze – Innovation and Intellectual Property Lab. Cambridge University
- Prof. Fiona Lettice – Norwich Business School, University of East Anglia
- European Patent Office – directorate 5.4.2 Patent Information Promotion

Thank you!

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Thank you!