Căutarea, vizualizarea și analiza brevetelor

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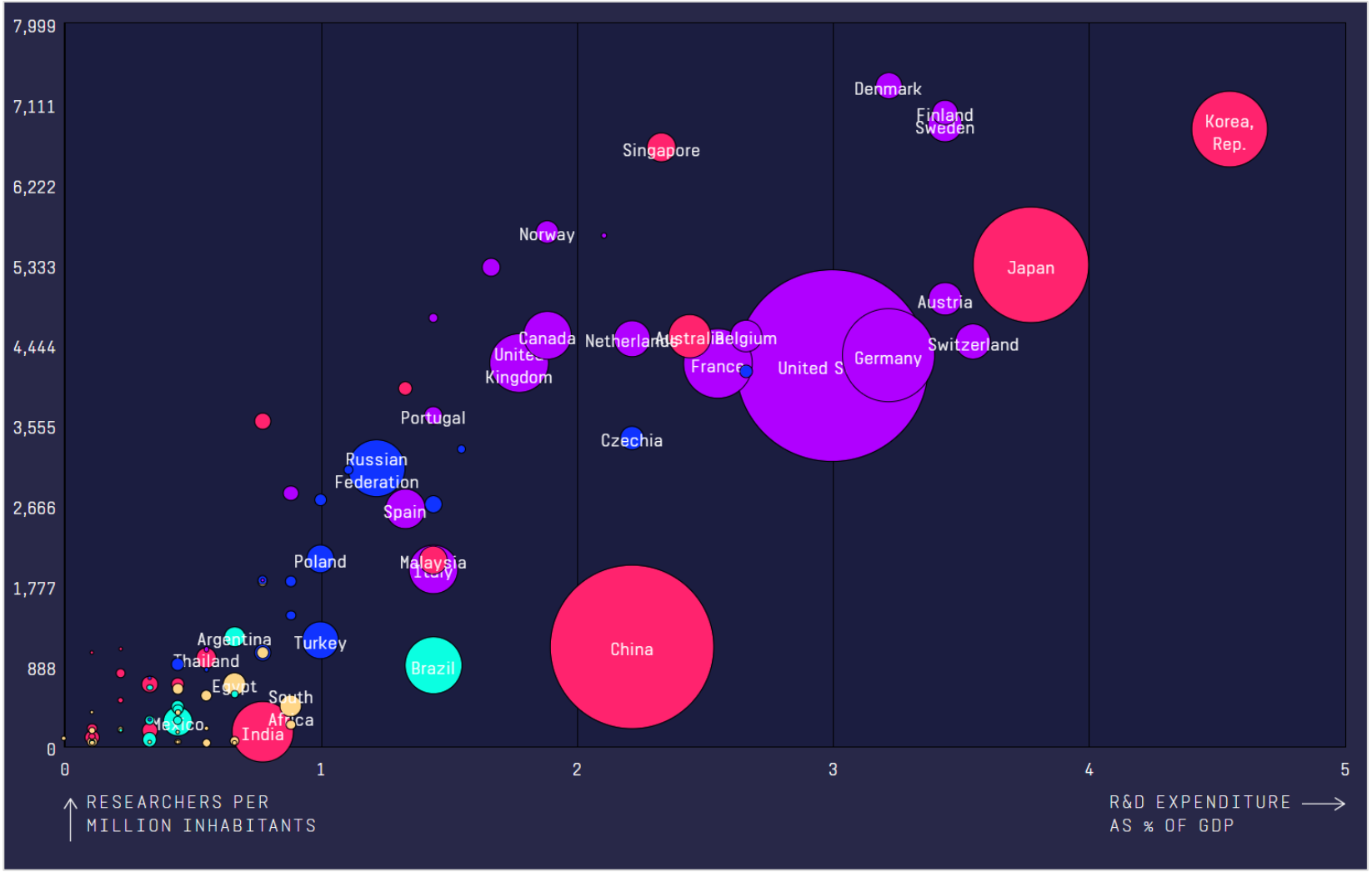
Februarie 2022

R&D spending

Global spending on R&D has reached a record high of almost US$ 1.7 trillion.

- About 10 countries account for 80% of spending.
- As part of the Sustainable Development Goals (SDGs), countries have pledged to substantially increase public and private R&D spending as well as the number of researchers by 2030.



Source: UNESCO Institute for Statistics

Patents

“A patent is an exclusive right granted for an invention, which is a product or a process that provides, in general, a new way of doing something, or offers a new technical solution to a problem. To get a patent, technical information about the invention must be disclosed to the public in a patent application.”

Source: WIPO

What kind of protection does a patent offer?

In principle, the patent owner has the exclusive right to prevent or stop others from commercially exploiting the patented invention. In other words, patent protection means that the invention cannot be commercially made, used, distributed, imported or sold by others without the patent owner's consent.

Is a patent valid in every country?

Patents are territorial rights. In general, the exclusive rights are only applicable in the country or region in which a patent has been filed and granted, in accordance with the law of that country or region.

How long does a patent last?

The protection is granted for a limited period, generally 20 years from the filing date of the application.

Patents

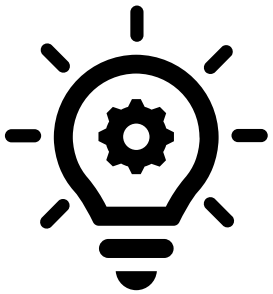
What can be patented?

Differs across legal jurisdictions. In general:

- Products/devices, processes, compositions of matter (i.e. chemical compounds)
- Manufacture and uses of the above

What cannot be patented?

- Discoveries, physical phenomena, laws of nature, scientific theories, mathematical methods
- Aesthetic Creations
- Presentations of information
- Abstract ideas, philosophies
- Inventions that are offensive to public morality

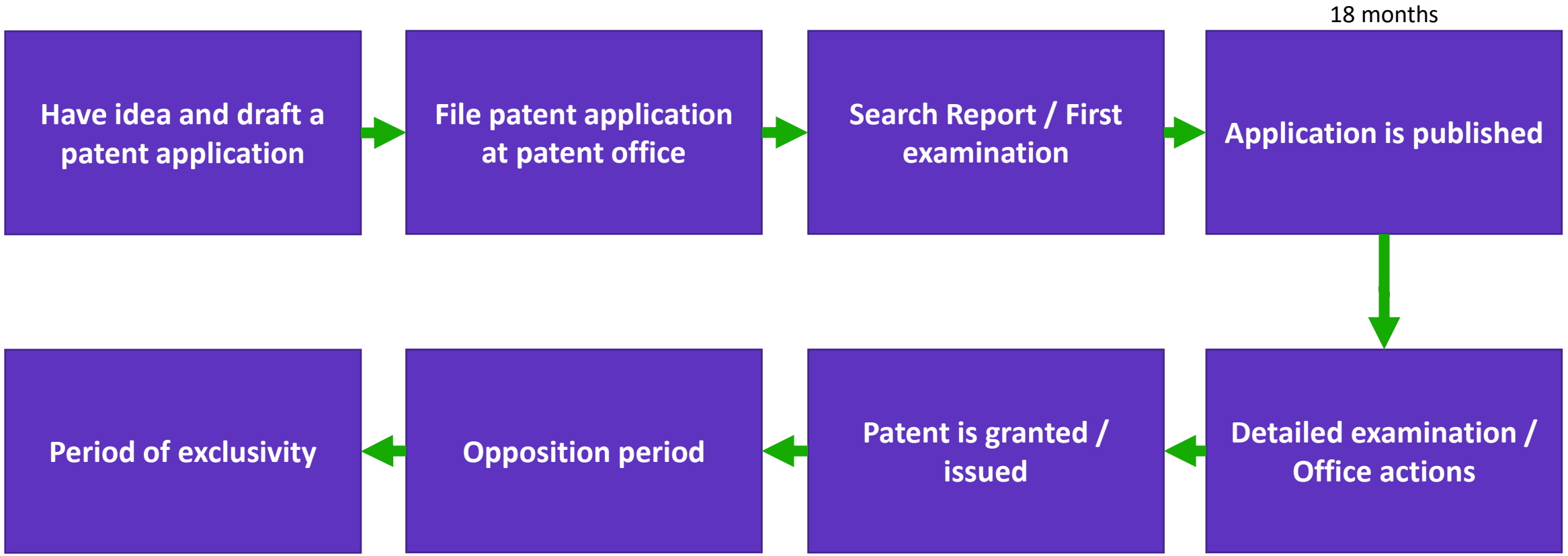


Criteria for grant of patent

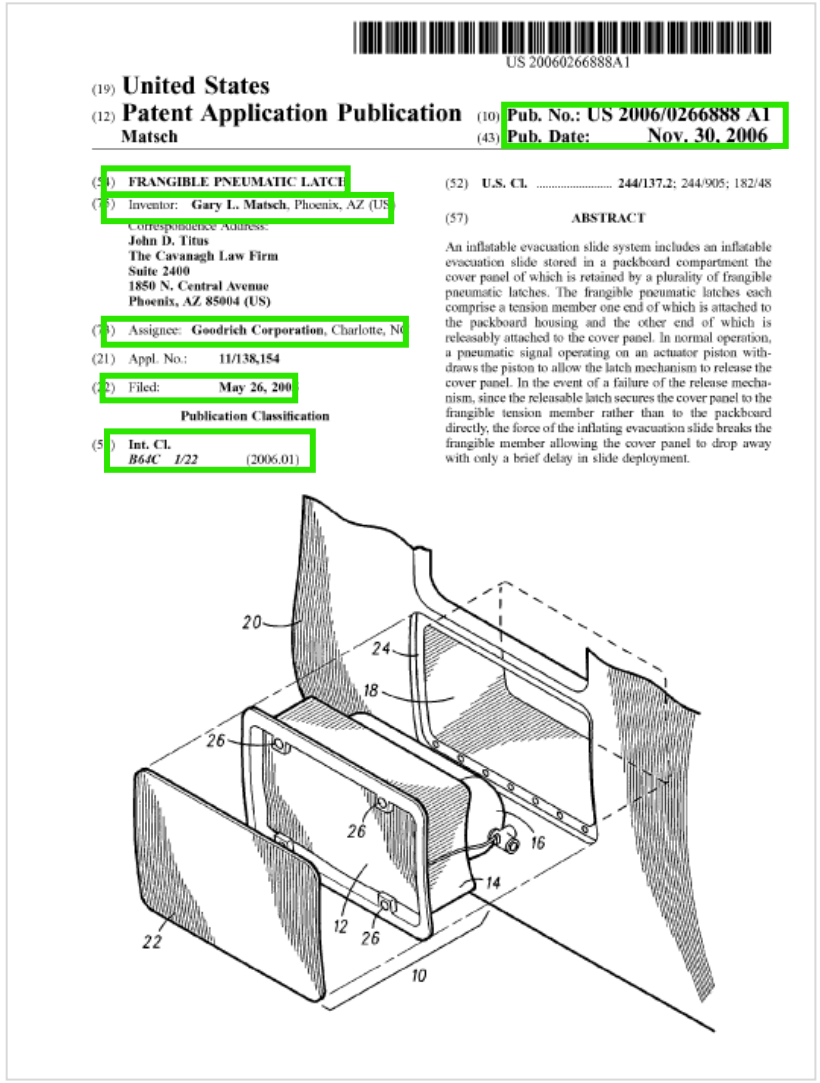
In general:

✓ The invention must be novel
✓ The invention must be useful/have technical character
✓ The invention must non-obvious/have inventive step
✓ The invention must be legally allowable

Patent prosecution process



What does a patent look like?



US 20060266888A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2006/0266888 A1**

Matsch (43) **Pub. Date: Nov. 30, 2006**

(54) **FRANGIBLE PNEUMATIC LATCH**

(75) Inventor: **Gary L. Matsch**, Phoenix, AZ (US)

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(73) Assignee: **Goodrich Corporation**, Charlotte, NC

(21) Appl. No.: **11/138,154**

(22) Filed: **May 26, 2005**

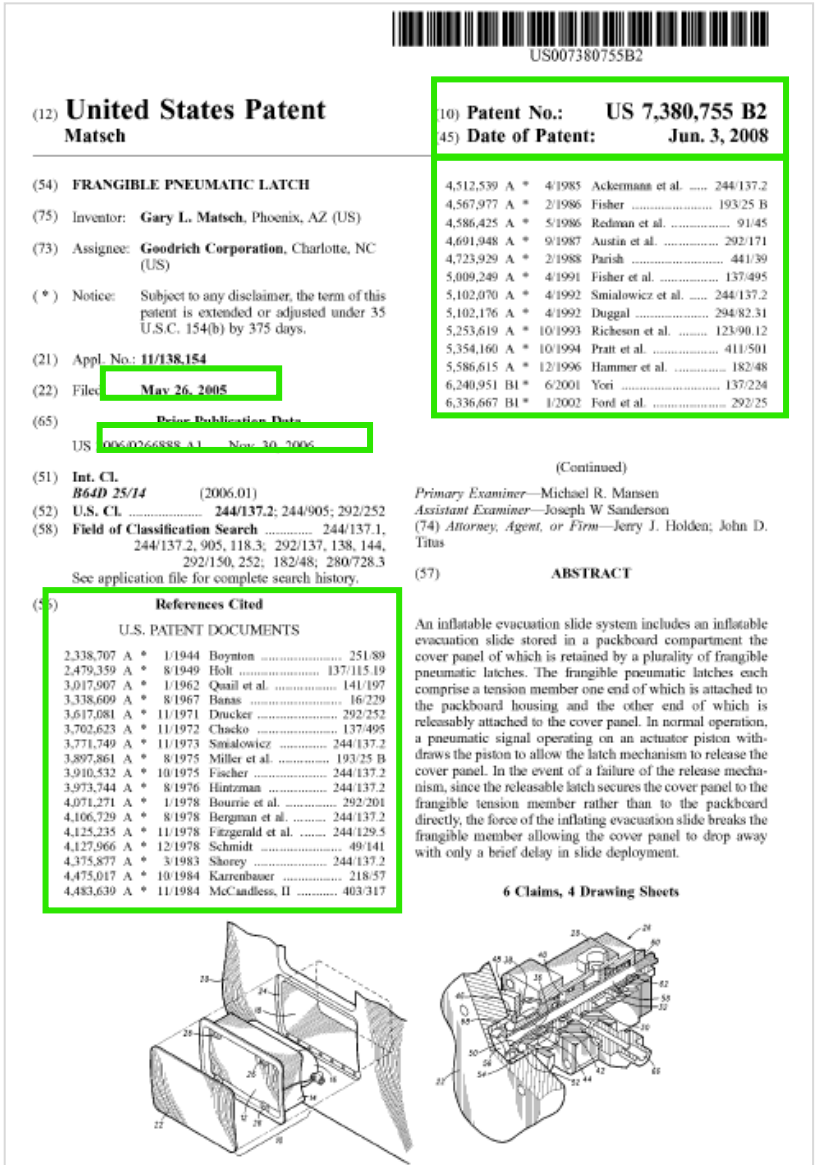
Publication Classification

(51) **Int. Cl.**
B64C 1/22 (2006.01)

(52) **U.S. Cl.** **244/137.2**; 244/905; 182/48

(57) **ABSTRACT**

An inflatable evacuation slide system includes an inflatable evacuation slide stored in a packboard compartment the cover panel of which is retained by a plurality of frangible pneumatic latches. The frangible pneumatic latches each comprise a tension member one end of which is attached to the packboard housing and the other end of which is releasably attached to the cover panel. In normal operation, a pneumatic signal operating on an actuator piston withdraws the piston to allow the latch mechanism to release the cover panel. In the event of a failure of the release mechanism, since the releasable latch secures the cover panel to the frangible tension member rather than to the packboard directly, the force of the inflating evacuation slide breaks the frangible member allowing the cover panel to drop away with only a brief delay in slide deployment.



US007380755B2

(12) **United States Patent**

Matsch

(10) **Patent No.: US 7,380,755 B2**

(45) **Date of Patent: Jun. 3, 2008**

(54) **FRANGIBLE PNEUMATIC LATCH**

(75) Inventor: **Gary L. Matsch**, Phoenix, AZ (US)

(73) Assignee: **Goodrich Corporation**, Charlotte, NC (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 375 days.

(21) Appl. No.: **11/138,154**

(22) Filed: **May 26, 2005**

(65) **Prior Publication Data**

US 2006/0266888 A1 Nov. 30, 2006

(51) **Int. Cl.**
B64D 25/14 (2006.01)

(52) **U.S. Cl.** **244/137.2**; 244/905; 292/252

(58) **Field of Classification Search** 244/137.1, 244/137.2, 905, 118.3; 292/137, 138, 144, 292/150, 252; 182/48; 280/728.3

See application file for complete search history.

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Primary Examiner—Michael R. Mansen
Assistant Examiner—Joseph W Sanderson
(74) *Attorney, Agent, or Firm*—Jerry J. Holden; John D. Titus

(57) **ABSTRACT**

An inflatable evacuation slide system includes an inflatable evacuation slide stored in a packboard compartment the cover panel of which is retained by a plurality of frangible pneumatic latches. The frangible pneumatic latches each comprise a tension member one end of which is attached to the packboard housing and the other end of which is releasably attached to the cover panel. In normal operation, a pneumatic signal operating on an actuator piston withdraws the piston to allow the latch mechanism to release the cover panel. In the event of a failure of the release mechanism, since the releasable latch secures the cover panel to the frangible tension member rather than to the packboard directly, the force of the inflating evacuation slide breaks the frangible member allowing the cover panel to drop away with only a brief delay in slide deployment.

6 Claims, 4 Drawing Sheets

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What does a patent look like?

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

(11) EP 1 602 914 A2

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
07.12.2006 Bulletin 2006/49

(51) Int Cl.: G01N 3/32, G01N 3/04, G01M 13/02

(21) Application number: 05252751.2

(22) Date of filing: 04.05.2005

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR LV MK YU

(30) Priority: 05.06.2004 GB 0412591

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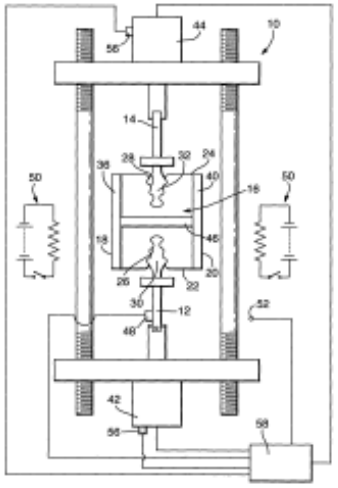
(72) Inventor: Phipps, Antony Bernard
Bramshall Uttoxeter ST14 5BG (GB)

(74) Representative: Gunn, Michael Alan
Rolls-Royce plc
P.O. Box 31
Derby DE24 8BJ (GB)

(54) An apparatus and a method for testing attachment features of components

(57) An apparatus (10) for testing attachment features (26,28,30,32) of components (12,14) comprises a first member (16) having a first end (18), a second end (20), a first edge (22) and a second edge (24). The first edge (22) has a first firtree slot (26) to receive a first component (12) and the second edge (24) has a second firtree slot (28) to receive a second component (14). The first component (12) has a firtree attachment feature (30) to fit the first slot (26) and the second component (14) has a firtree attachment feature (32) to fit the second slot (28). The first end (18) of the first member (16) has flanges (34,36) extending laterally and the second end (20) of the first member (16) has flanges (38,40) extending laterally such that the first member (16) is substantially H-shaped in cross-section. First load means (42) apply a load on the first component (12) and second load means (44) apply a load on the second component (14) substantially in the opposite direction to the load on the first component (12). The apparatus may be used to test firtree attachments for turbine blades and discs.

Fig.1.



EP 1 602 914 A2

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

(11) EP 1 602 914 B1

(12) EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention of the grant of the patent:
02.01.2008 Bulletin 2008/01

(51) Int Cl.:
G01N 3/32 (2006.01) *G01N 3/04* (2006.01)
G01M 13/02 (2006.01)

(21) Application number: 05252751.2

(22) Date of filing: 04.05.2005

(54) An apparatus and a method for testing attachment features of components
Vorrichtung und Verfahren zum Testen von Befestigungen für Bauteile
Dispositif et méthode de test de fixations de composants

(84) Designated Contracting States:
DE FR GB

(30) Priority: 05.06.2004 GB 0412591

(43) Date of publication of application:
07.12.2005 Bulletin 2005/49

(73) Proprietor: ROLLS-ROYCE PLC
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(72) Inventor: Phipps, Antony Bernard
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Uttoxeter ST14 5BG (GB)

(74) Representative: Gunn, Michael Alan
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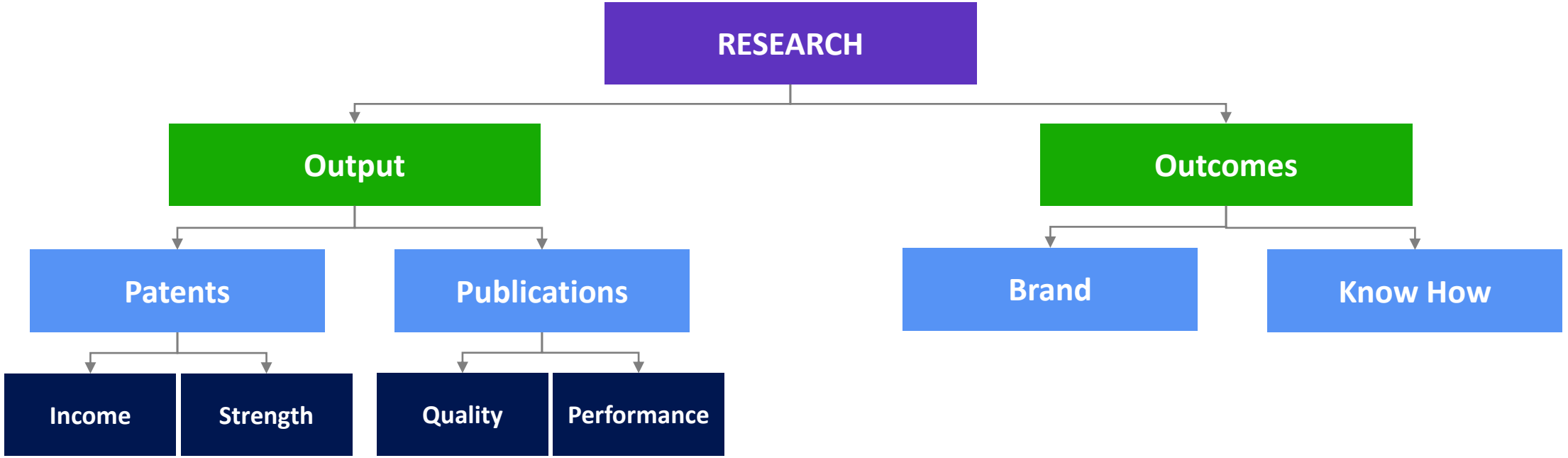
US-A- 2 293 084
US-A- 3 593 574
US-A- 3 802 255

Research visibility and translation

Research performance evaluation



The performance evaluation should take into consideration both outputs and outcomes

- A high-quality research is not necessarily a highly cited research
- There are articles that are published in the highest Impact Factor journals, but they are not cited

Publication or Patent

Research Journal of Applied Sciences, Engineering and Technology 13(9): 741-749, 2016
DOI:10.19026/rjaset.13.3348
ISSN: 2040-7459; e-ISSN: 2040-7467
© 2016 Maxwell Scientific Publication Corp.
Submitted: July 12, 2016 Accepted: August 23, 2016 Published: November 05, 2016

Research Article
The 100 Most Cited Scientific Papers in Construction and Demolition Waste Management

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Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia

Abstract: The aim of this study is to identify the 100 most cited papers and their characteristics in the field of Construction and Demolition Waste (CDW) management, which were published in the Web of Knowledge database of the Institute for Science Information (ISI) from the period of 2000 until 28 February 2016. Citation analysis is the identification of literatures from peer-reviewed scholarly community, which is the most common approach in identifying major works. To date, this study is the first of its kind to cite studies related to CDW. This study was carried out by utilizing the Web of Science from the ISI for the most cited studies in each of the related journals in the area of CDW from the Journal Citation Report (JCR). The Cited Reference search tool of the ISI Web of Science database was utilized to analyse the chosen journals and the information was collected from the papers as follows: the type of study as well as the methodology, names and the number of authors and journal names and publication year. The findings from this analysis reveal that the number of citations in the 100 selected articles varies from 8 to 108; these articles have been published in 26 peer-reviewed journals under the classification of CDW. The frequency of citations does not represent the quality of the study; nevertheless, this study provides several guidelines in addressing the topics and authors who have contributed significantly to the body of knowledge in the area of CDW management.

Keywords: Construction and demolition waste management, impact factor, ISI web of knowledge, most cited papers

INTRODUCTION

According to Moed (2009), the significance of a journal research paper can be assessed by the number of times it has been cited by other researchers. This research demonstrates how the frequency of citations could project the value of the cited studies in imparting knowledge and prescribing changes in CDW management based on practices, debates, discussions and recommendations for future studies (Lefaivre *et al*., 2011). However, this approach of utilizing the rate of citations to assess the quality of cited studies or their applicability has been criticized (Cheek *et al*., 2006). The issue of temporal bias could be present in this type of analysis because some studies might have already been cited repeatedly over time. When the contents of these studies have been integrated into the current body of knowledge, the citation rate could begin to decrease. Newer works, on the other hand, could not have received as many citations. Citation analysis shows that other indices of scientific identification could also be a factor based on particular aspects of knowledge (Garfield, 1993). Thus, this specific resource has been highly acclaimed for the impact of citations of a journal, author, or a nation (Cheek *et al*., 2006; Basu, 2006; Ohba and Nakao, 2010).

Since 1945, the Institute for Scientific Information (ISI) has aimed to gather and store the most important bibliometric information in terms of scientific publications of peer-reviewed journals. However, it was not until 1962 that a special tool was introduced known as the Science Citation Index, which quantifies the citations. At present, this resource is called the Science Citation Expanded Index, which is the sub-section of the Web of Science. The bibliometric analysis performed on this platform was used to identify the journal papers that were cited the most under the heading of Construction and Demolition Waste (CDW) management. To the best of the researcher's knowledge, such citation analysis has never been performed in the area of CDW management.

Thus, the present study aims to use the bibliometric resource to identify 100 journal papers that have been cited the most in the arena of CDW management published from the year 2000 to February 2016.

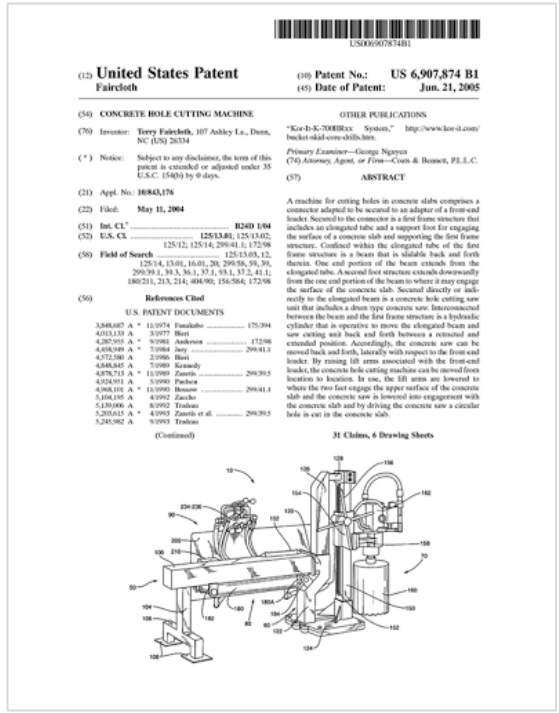
Corresponding Author: Kambiz Ghafourian, Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia

Purpose

Share knowledge

Intention

Establish expertise in the field



US006907874B1

(12) **United States Patent**
Faircloth

(10) **Patent No.: US 6,907,874 B1**
(45) **Date of Patent: Jun. 21, 2005**

(54) **CONCRETE HOLE CUTTING MACHINE**

(76) Inventor: **Terry Faircloth**, 107 Ashley Ln., Dunn, NC (US) 28334

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/843,176**
(22) Filed: **May 11, 2004**
(51) **Int. Cl.**[7] **B24D 1/04**
(52) **U.S. Cl.** **125/13.01**; 125/13.02; 125/12; 125/14; 299/41.1; 172/98
(58) **Field of Search** 125/13.03, 12, 125/14, 13.01, 16.01, 20; 299/58, 59, 39, 299/39.1, 39.3, 39.1, 37.1, 93.1, 37.2, 41.1; 180/211, 213, 214; 404/90; 156/584; 172/98

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(Continued)

OTHER PUBLICATIONS

"Kor-It-K-700IIExc System," http://www.kor-it.com/bucket-skid-exm-drills.htm.

Primary Examiner—George Nguyen
(74) *Attorney, Agent, or Firm*—Coats & Bennett, P.L.L.C.

(57) **ABSTRACT**

A machine for cutting holes in concrete slabs comprises a connector adapted to be secured to an adapter of a front-end loader. Secured to the connector is a first frame structure that includes an elongated tube and a support foot for engaging the surface of a concrete slab and supporting the first frame structure. Confined within the elongated tube of the first frame structure is a beam that is slidable back and forth therein. One end portion of the beam extends from the elongated tube. A second foot structure extends downwardly from the one end portion of the beam to where it may engage the surface of the concrete slab. Secured directly or indirectly to the elongated beam is a concrete hole cutting saw unit that includes a drum type concrete saw. Interconnected between the beam and the first frame structure is a hydraulic cylinder that is operative to move the elongated beam and saw cutting unit back and forth between a retracted and extended position. Accordingly, the concrete saw can be moved back and forth, laterally with respect to the front-end loader. By raising lift arms associated with the front-end loader, the concrete hole cutting machine can be moved from location to location. In use, the lift arms are lowered to where the two feet engage the upper surface of the concrete slab and the concrete saw is lowered into engagement with the concrete slab and by driving the concrete saw a circular hole is cut in the concrete slab.

31 Claims, 6 Drawing Sheets

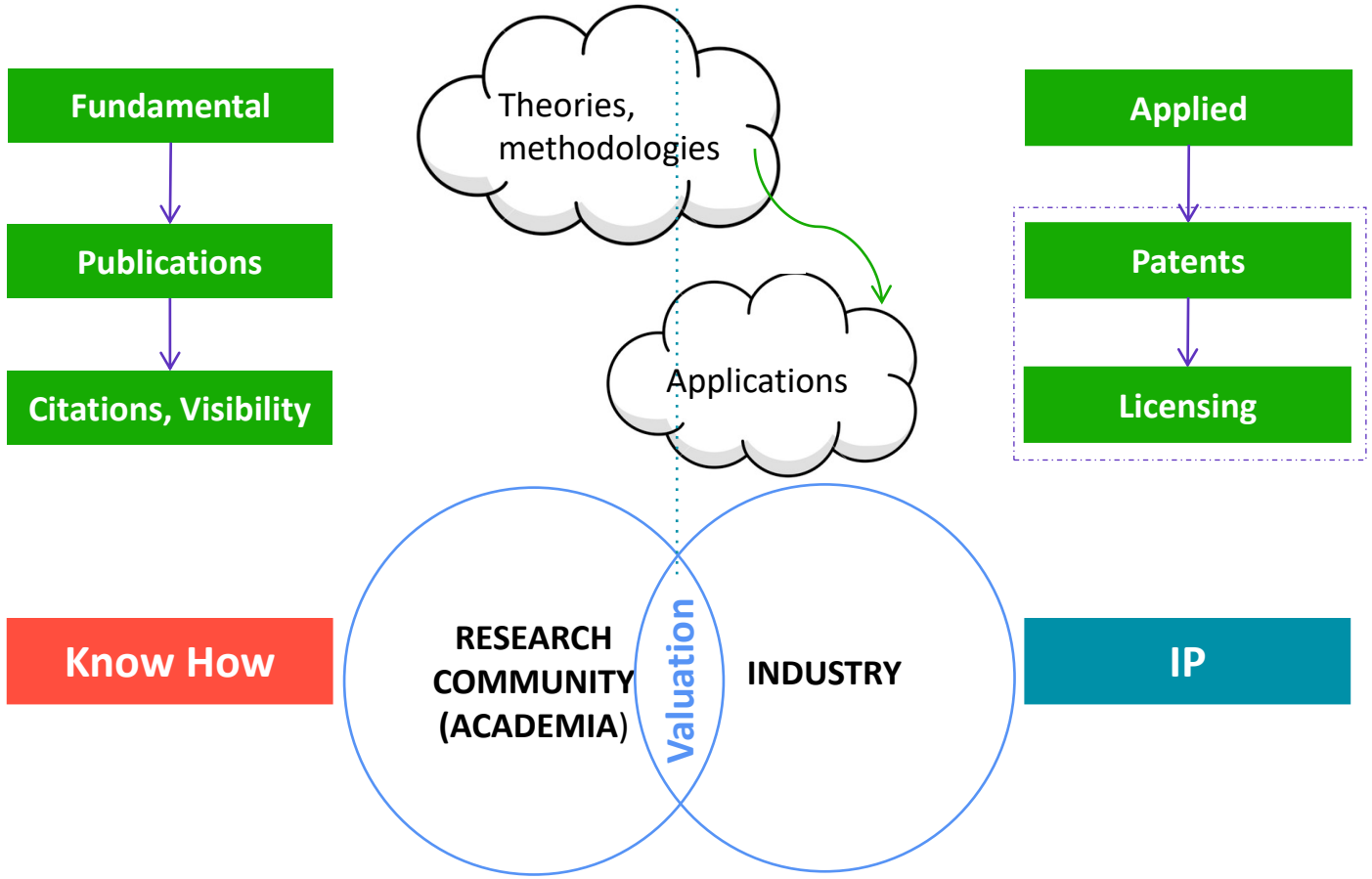
Intention

Bring a product or service to a market

Applied vs Basic Research

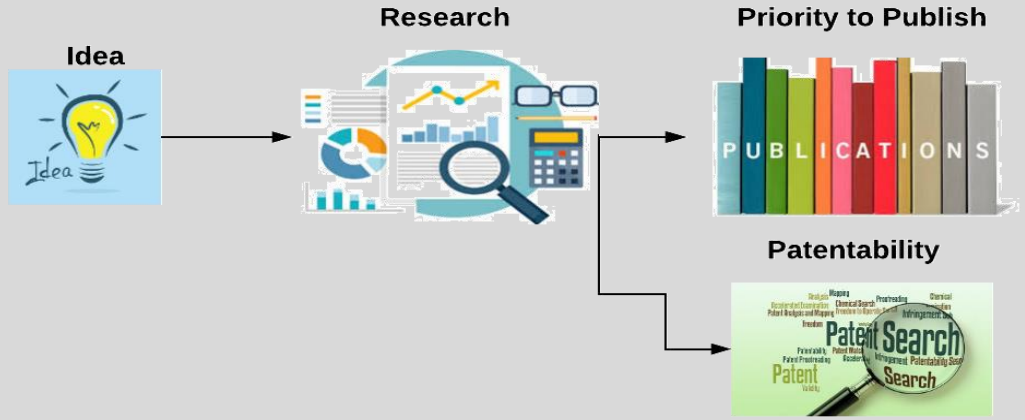
Pathway from Research to IP, Strategy

In an ideal structure, basic research should yield more publications while applied research should drive more intellectual property.

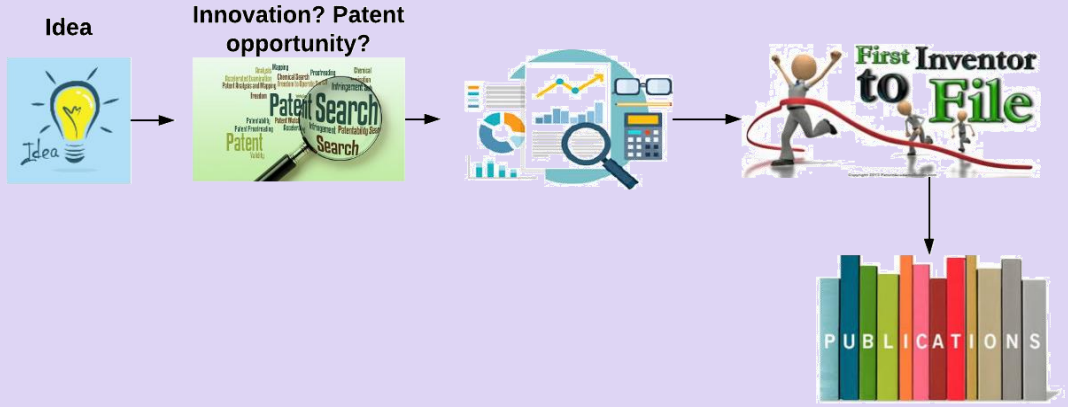


An innovative approach

Classical Approach
Scientific Literature



Novel Approach
Scientific Literature + Patent Information



"Up to 30% of all expenditure in R&D is wasted on redeveloping existing inventions " (EPO).

Why Patent data is important?

- ✓ **Avoid duplication of R&D efforts and spending**
- ✓ **Solutions to technical problems**
- ✓ **Gather business intelligence**

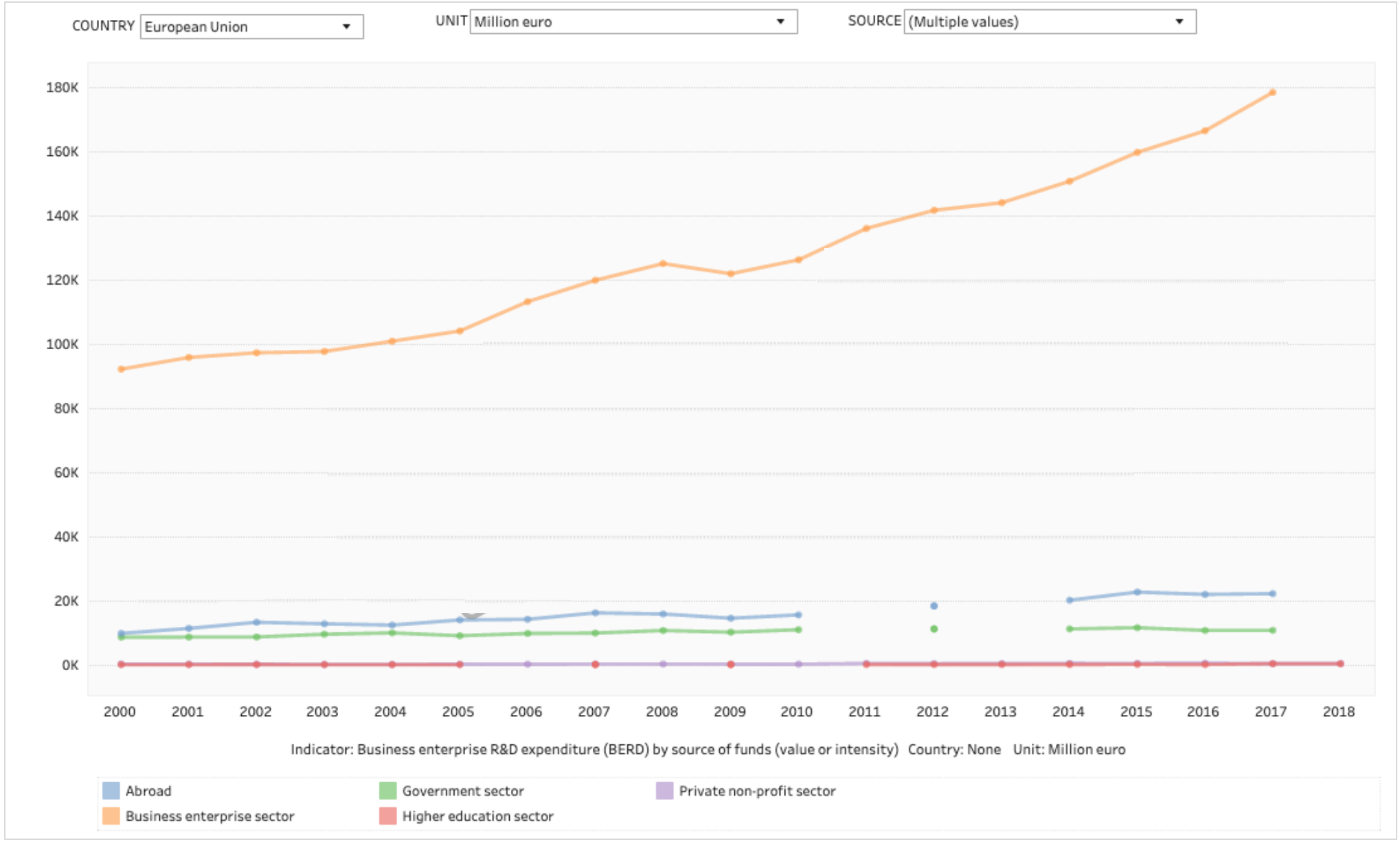
It is important to recall that, in the context of the European Community R&D Framework Programs, participants need to demonstrate the innovative character of the project they propose. A proper analysis of the state of the art is one of the criteria project proposals are evaluated upon, and therefore technology-based proposals should preferably include patent searches [*].

Up to 80% of current technical knowledge can only be found in patent document [*].
Moreover, this information is rapidly available, as most patent applications are published 18 months after the first filing, irrespective of their country of origin.

** Source: EPO Report Patents for Researchers*

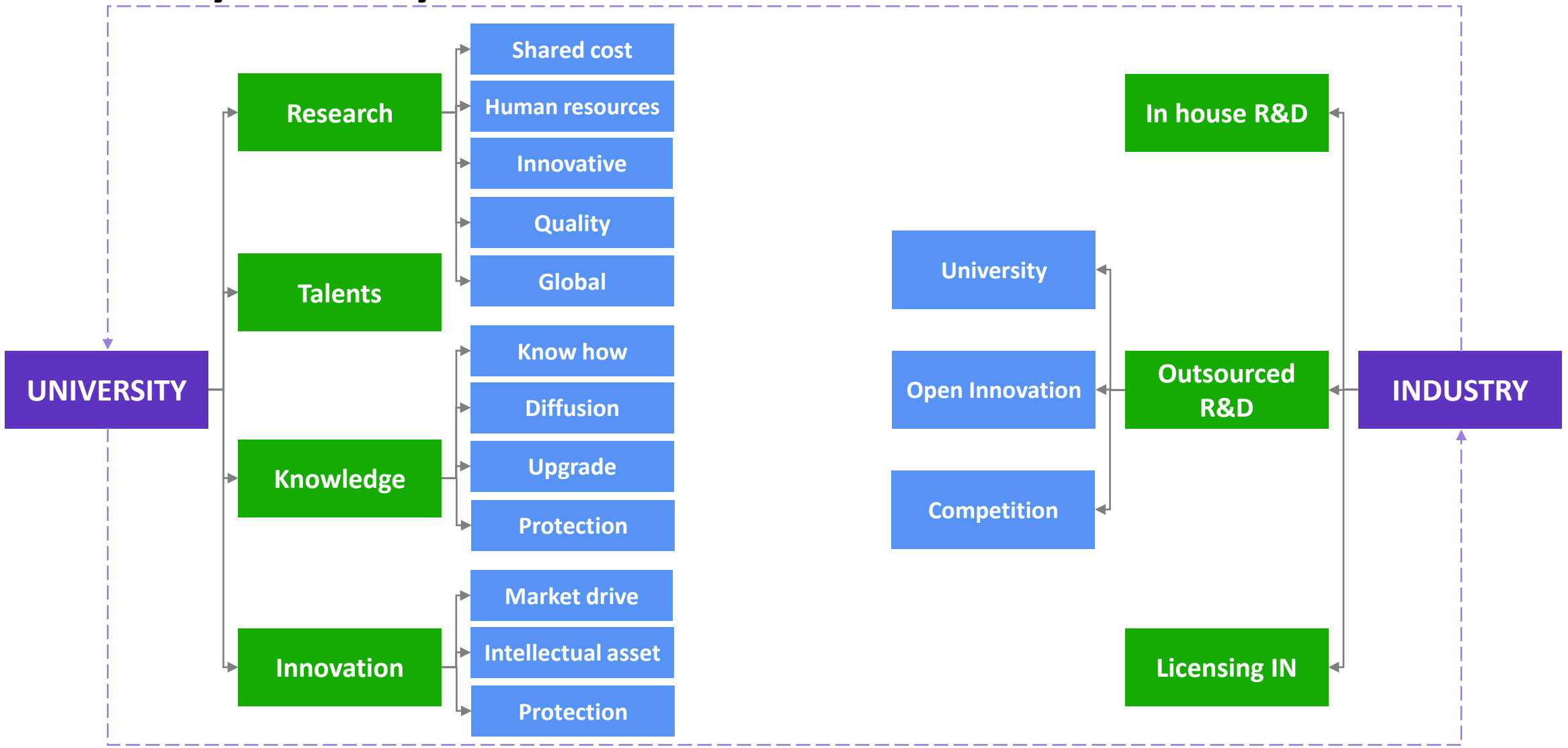
Who is spending on R&D?

Most of the spending on R&D is ensured by the business enterprise sector.



Source: Research and Innovation Observatory – Horizon 2020 Policy Support Facility

University-Industry relations



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Journals across the platform

21,000+
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184 million+
Records

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Records with funding data

101 million
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Books

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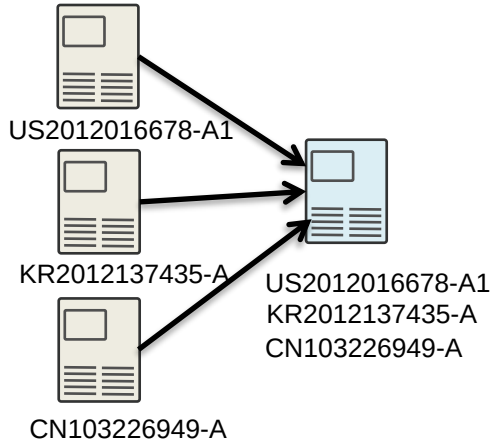
- ✓ 7M patents added in the last year
- ✓ Coverage 1963 to present

DII merges the value-added patent information from **Derwent World Patents Index** with the patent citation information from **Derwent Patent Citation Index***.

You can use additional descriptive information and coding to discover all relevant inventions and quickly grasp a patent's significance and its relationship to other patents.

Reduce duplication of R&D; track competitors' activities; detect and avoid patent infringement; identify potential gaps in the marketplace and possible licensing opportunities.



** includes Derwent Chemistry Resource (separate subscription required), a unique database containing chemical structures that you can search by entering chemical search terms or chemical structures. The Derwent Chemistry Resource allows you to browse through the chemical structure database to develop new ideas on compound structure advances and to learn about new compounds that have hit the market.*

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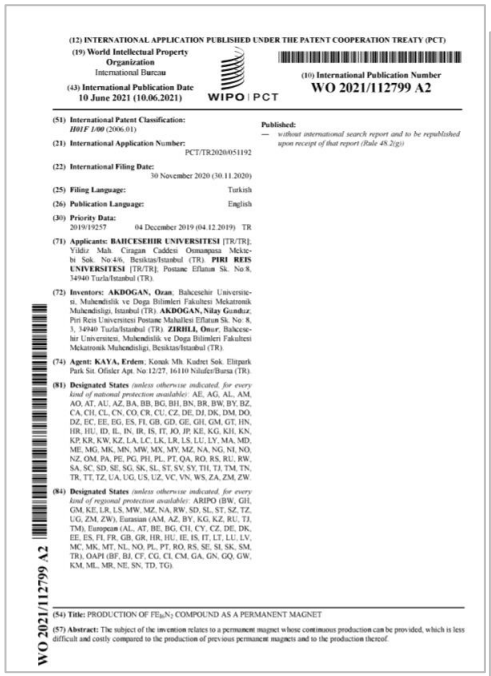

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 June 2021 (10.06.2021)

WIPO | PCT

(10) International Publication Number
WO 2021/112799 A2

(51) International Patent Classification:
H01F 1/00 (2006.01)

(21) International Application Number:
PCT/TR2020/051192

(22) International Filing Date:
30 November 2020 (30.11.2020)

(25) Filing Language: Turkish

(26) Publication Language: English

(30) Priority Data:
2019/19257 04 December 2019 (04.12.2019) TR

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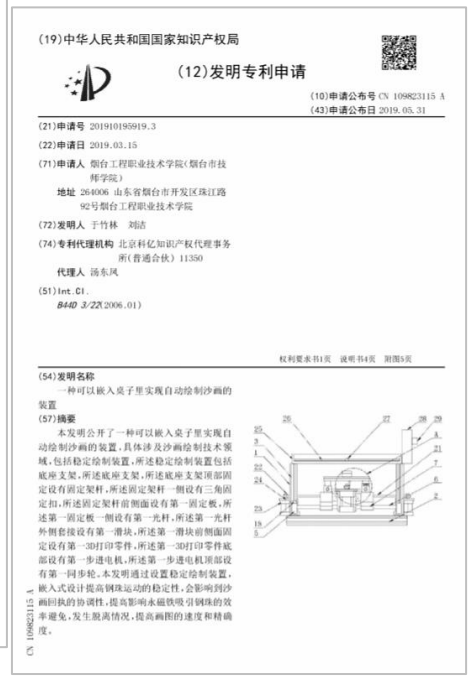
(54) Title: PRODUCTION OF $Fe_{16}N_2$ COMPOUND AS A PERMANENT MAGNET

(57) Abstract: The subject of the invention relates to a permanent magnet whose continuous production can be provided, which is less difficult and costly compared to the production of previous permanent magnets and to the production thereof.

WO 2021/112799 A2



(19)中华人民共和国国家知识产权局

(12)发明专利申请

(10)申请公布号 CN 109823115 A
(43)申请公布日 2019.05.31

(21)申请号 201910195919.3

(22)申请日 2019.03.15

(71)申请人 烟台工程职业技术学院(烟台市技师学院)

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(72)发明人 于竹林 刘洁

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代理人 汤东凤

(51)Int.Cl.
B44D 3/22(2006.01)

权利要求书1页 说明书4页 附图3页

(54)发明名称

一种可以嵌入桌子里实现自动绘制沙画的装置

(57)摘要

本发明公开了一种可以嵌入桌子里实现自动绘制沙画的装置，具体涉及沙画绘制技术领域，包括稳定绘制装置，所述稳定绘制装置包括底座支架，所述底座支架，所述底座支架顶部固定设有固定架杆，所述固定架杆一侧设有三角固定扣，所述固定架杆前侧面设有第一固定板，所述第一固定板一侧设有第一光杆，所述第一光杆外侧套接设有第一滑块，所述第一滑块前侧面固定设有第一3D打印零件，所述第一3D打印零件底部设有第一步进电机，所述第一步进电机顶部设有第一同步轮。本发明通过设置稳定绘制装置，嵌入式设计提高钢珠运动的稳定性，会影响到沙画回执的协调性，提高影响永磁铁吸引钢珠的效率避免，发生脱离情况，提高画图的速度和精确度。

CN 109823115 A

Production of permanent magnet using 3D printer, has magnetizing process that is applied to chemical compound obtained by combining polymer material with Fet ish compound by utilizing 3D printer and carries out heat treatment processes

Patent Number: WO2021112799-A2

Inventors: AKDOGAN O; AKDOGAN N G; ZIRHLI O

Patent Assignees:
UNIV BAHCESEHIR(UYBA-Non-standard)
UNIV PIRI REIS(UYPI-Non-standard)

Derwent Primary Accession Number: 2021-62962Y

Abstract:

NOVELTY - The
that contain n
The magnetizi

USE - Product

ADVANTAGE -
the available

Derwent Class Code(s): L03 (Electro-(in)organic - chemical features of conductors, resistors, magnets, capacitors and switches, electric discharge lamps, semiconductor and other materials, batteries, accumulators and thermoelectric devices, including fuel cells, magnetic recording media, radiation emission devices, liquid crystals and basic electric elements. Growing of single crystals of semiconductors and their doping are included, but semiconductor devices, where the manufacture is not claimed are excluded. Electrography, electrophotography, magnetography, electrolysis, electrophoresis, power plant, X-ray and plasma-techniques, ion exchange resins, polyelectrolytes, electroplating, metal electrodeposition, electroforming, anodising, electrolytic cleaning, cathodic protection and electrolytic or electrothermic production or refining of metals are all covered elsewhere (Sections G, J, K and M).); M13 (Coating material with metals, diffusion processes, enamelling and vitreous coatings - including coating from liquid metal or solution, spraying, cementation, cathodic sputtering, enamelling and oilfree lubricant coatings, but not coatings for the production of semiconductors (C23C, D).); A85 (Electrical applications.); V02 (Inductors and Transformers)

Derwent Manual Code(s): L03-B02J ENGINEERING, AUTOMOTIVE APPLICATIONS; M13-D01A CEMENTATION BY DIFFUSION PROCESS USING SOLIDS - CARBURISING/NITRIDING; M13-D02A CEMENTATION BY DIFFUSION PROCESS USING LIQUIDS - CARBURISING/NITRIDING; M13-D03A CEMENTATION BY DIFFUSION PROCESS USING GASES - CARBURISING/NITRIDING; A12-E08 MAGNETIC COMPOSITIONS/DEVICES; A12-E08B MOTORS, COILS, TRANSFORMERS, GENERATORS; A12-E10 HEAT AND TEMPERATURE USES; A12-W14 NANOTECHNOLOGY; V02-A MAGNETIC MATERIALS; V02-E01 PERMANENT MAGNETS; V02-H04 MAGNET MANUFACTURE; X25-A08B 3D PRINTING / ADDITIVE MANUFACTURING APPARATUS

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- all of the patent numbers that make up the family; links to original patent documents; unified Assignee codes where available
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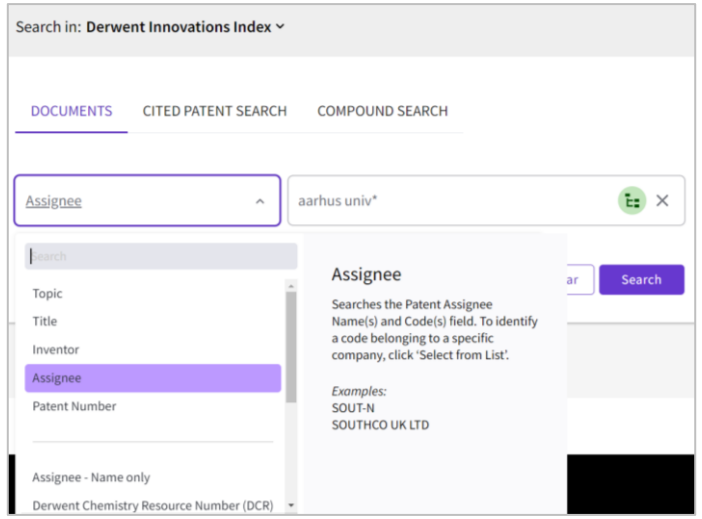

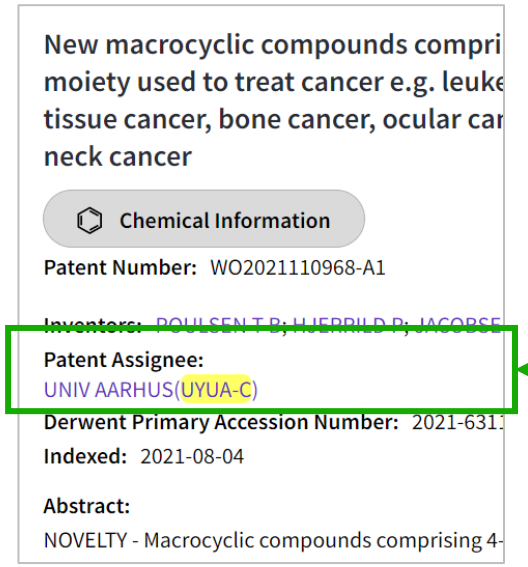
New macrocyclic compounds compri
moiety used to treat cancer e.g. leuke
tissue cancer, bone cancer, ocular car
neck cancer

Chemical Information

Patent Number: WO2021110968-A1

Inventors: POULSEN T B; HJERRILD P; JACOBSE

Patent Assignee:
UNIV AARHUS(UYUA-C)

Derwent Primary Accession Number: 2021-631

Indexed: 2021-08-04

Abstract:
NOVELTY - Macrocyclic compounds comprising 4-

There are two Assignee search options: "**Assignee**" and "**Assignee – Name Only**"

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- **Derwent Manual Codes**: indicates the novel technical aspects of the invention
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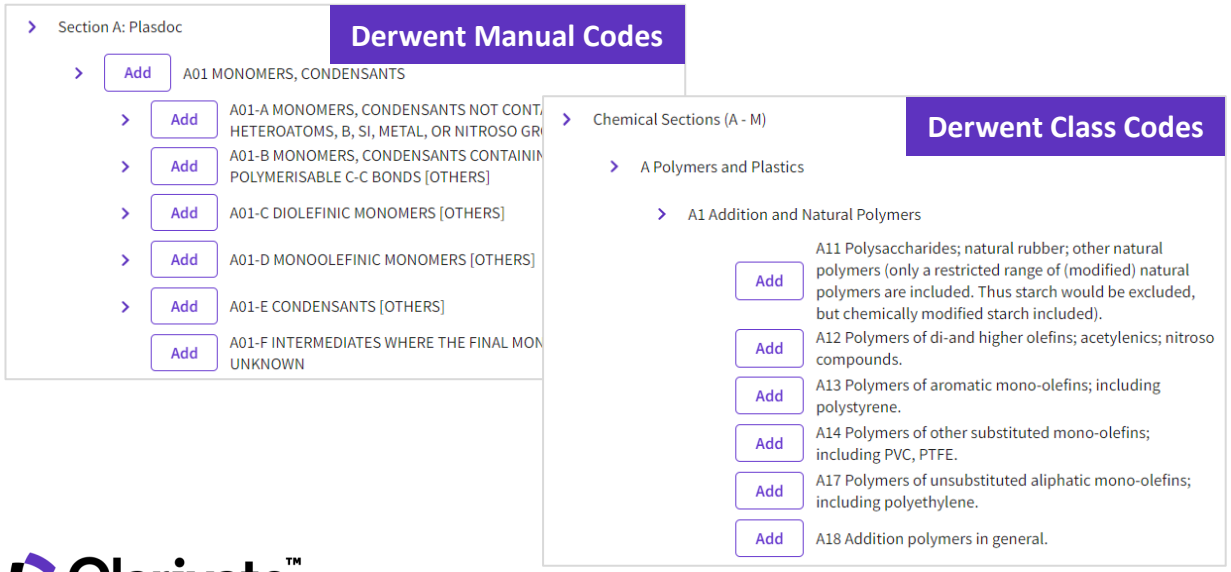

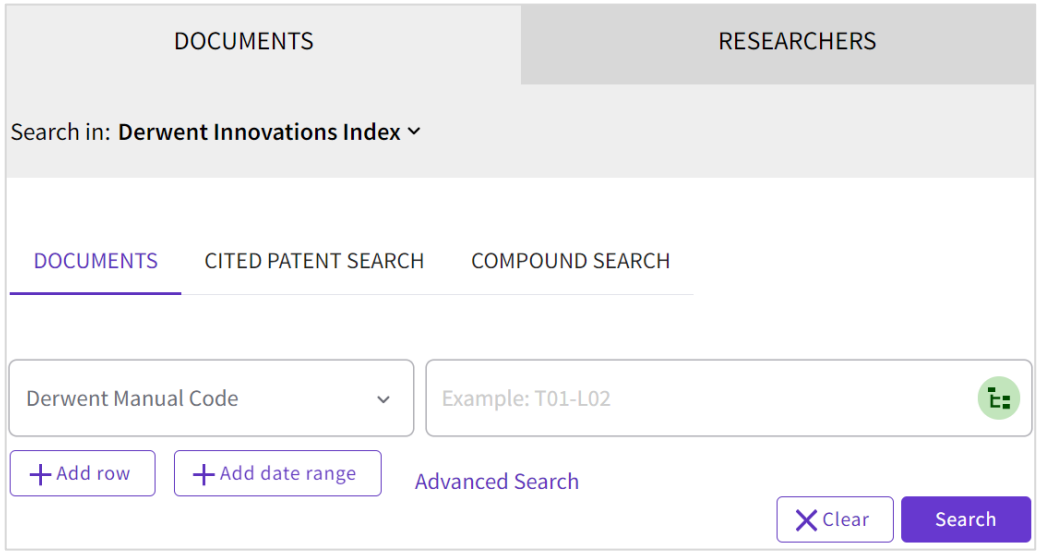

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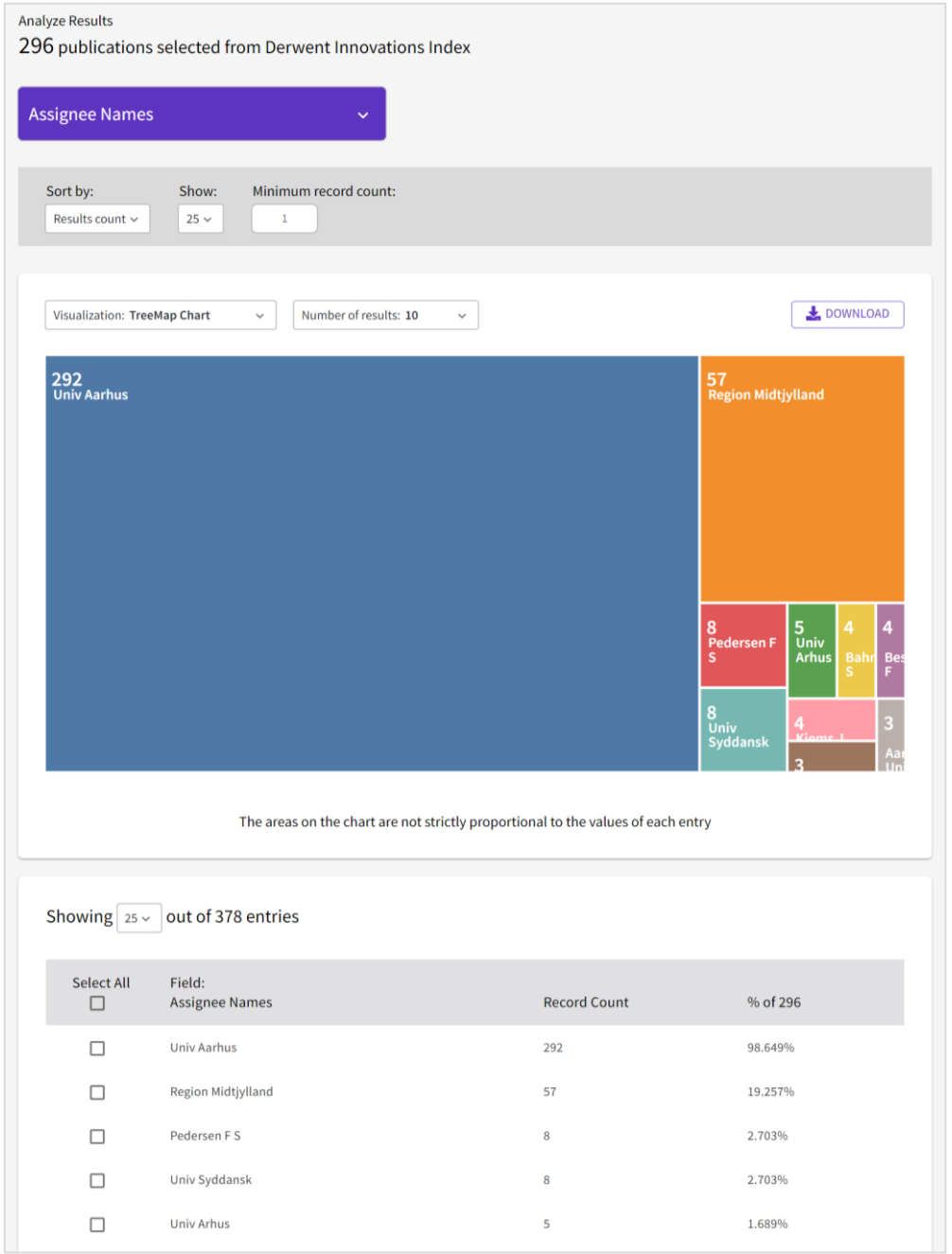
Analyse Results to group and rank records in a results set by extracting data values from a variety of fields.

Use this function to find the most prevalent Inventors in a particular field of study or generate a list of Assignees ranked by record count based on your search query.



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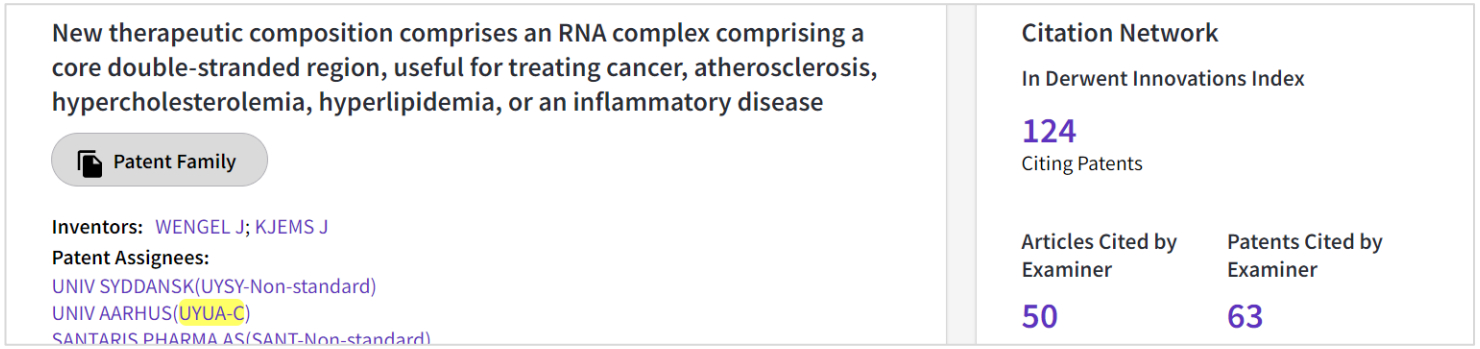

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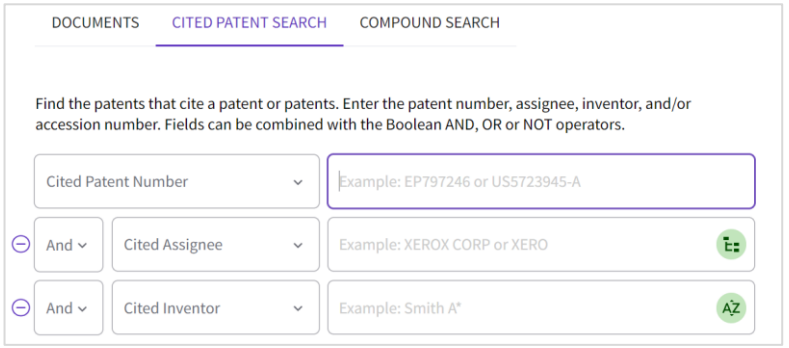


Cited Patent Search

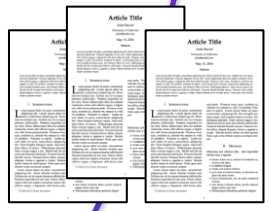
All Database Search | Wider Discovery and Citation Tracking

Studies and experiments get underway after a research team receives grant funding for a project.

Early findings are presented by the team at **conferences**, where they collect feedback from their colleagues.

The team works to publish **journal articles** that will share their findings more widely.

Meanwhile, the team conducts more studies.



New findings mean new **journal articles**.

Research **datasets** generated in the lab or fieldwork are deposited in data repositories so others can reuse them.

The team files **patent** applications to protect new discoveries.

The team publishes a **book**, which provides more information and detail on the research topic than the articles published along the way.

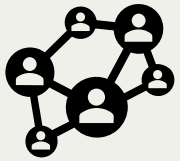
Why use the Derwent Innovations Index?

Determine the State of the Art

- Review the Novelty of an invention / Last technological advances?
- Gaps in the marketplace?
- Avoid or watch for Patent infringements

Find patents without specialist knowledge

- English abstract from patent documents issued in more than 30 languages
- Original patent titles/abstracts are re-written by subject specialists
- Applications for the same invention are grouped into families



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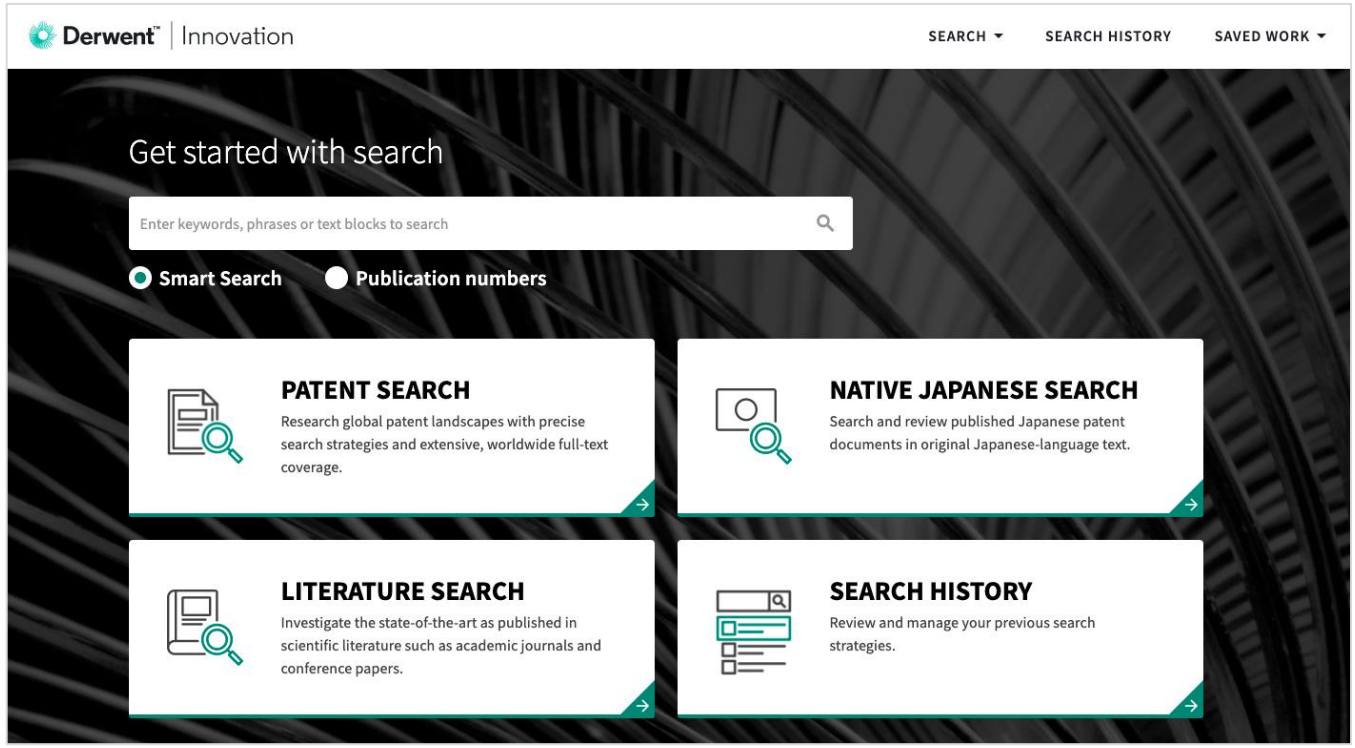

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- Build focused search queries using 300+ standard fields and Boolean commands to locate the most relevant publications
- Capture highly relevant results using an invention description or free text input with AI-powered SmartSearch
- Focus on a specific technology category using DWPI 26,000+ codes that categorize patents based on novelty and application

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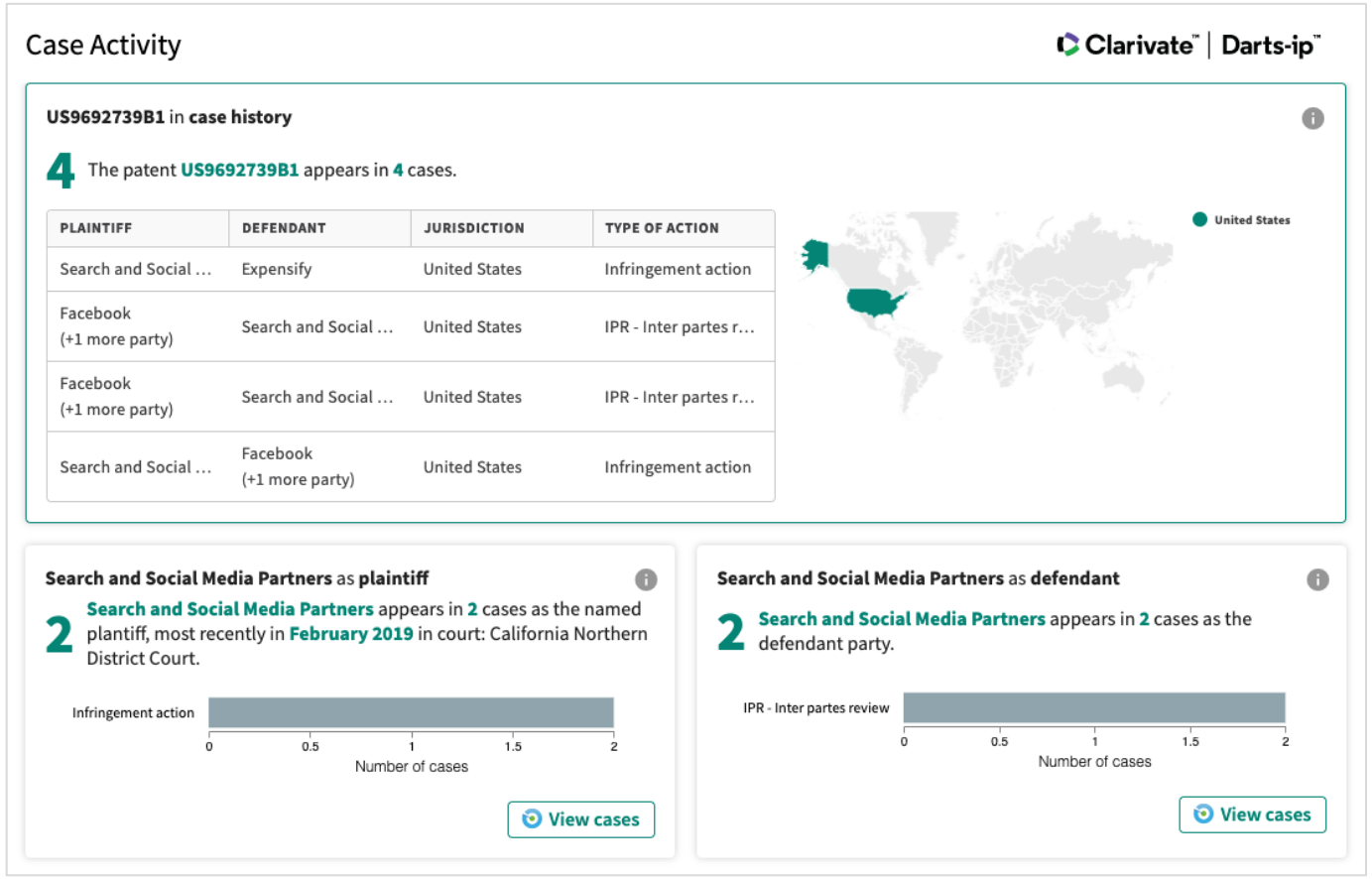

CAPTURE DEEPER INSIGHTS WITH CORRELATED PATENT DATA & PROPRIETARY CONTENT

- **Global Patent Data**: search cleansed, corrected, and normalized full-text patent data from 75 jurisdictions
- **Derwent World Patents Index**: find more relevant patents and review results in less time using editorially-enhanced global patent data
- **Darts-ip Global Patent Litigation Case Data**: Identify if a patent is involved in litigation and see case details from 140 jurisdictions.

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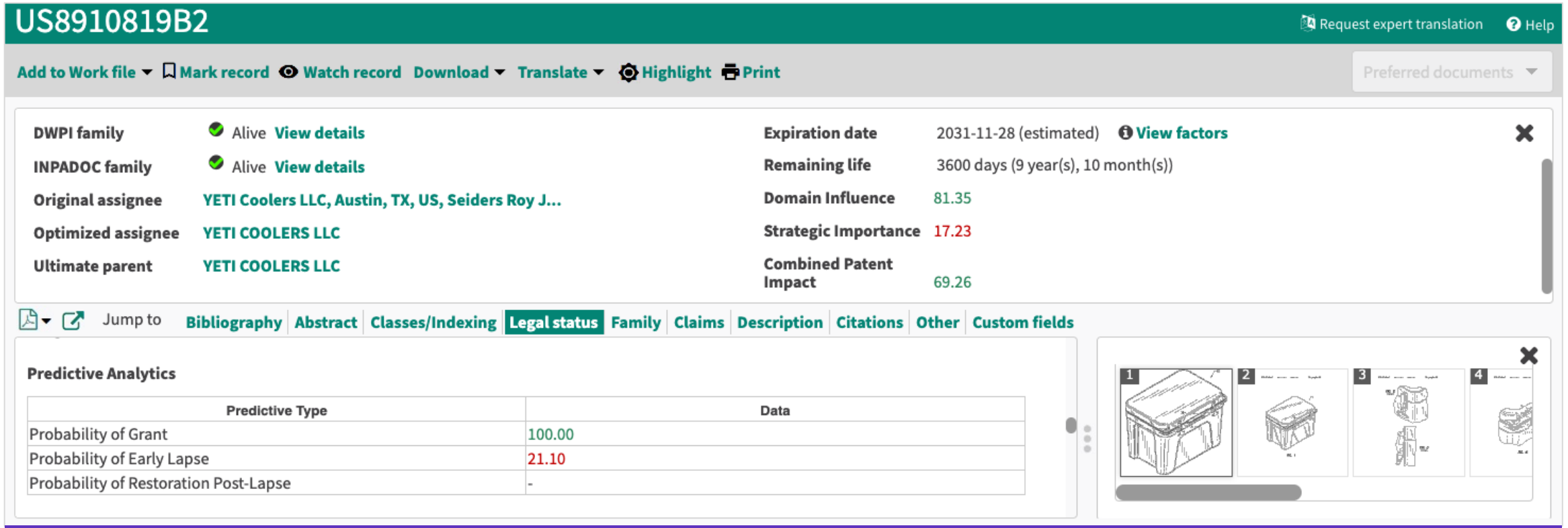

EVALUATE POTENTIAL RISK AND IMPACT WITH PREDICTIVE METRICS

- Compare patents using predictive metrics
- Accurately evaluate a patent's remaining life and probability of early lapse (or grant)
- Evaluate how influential a patent will be in its technology domain with citation prediction

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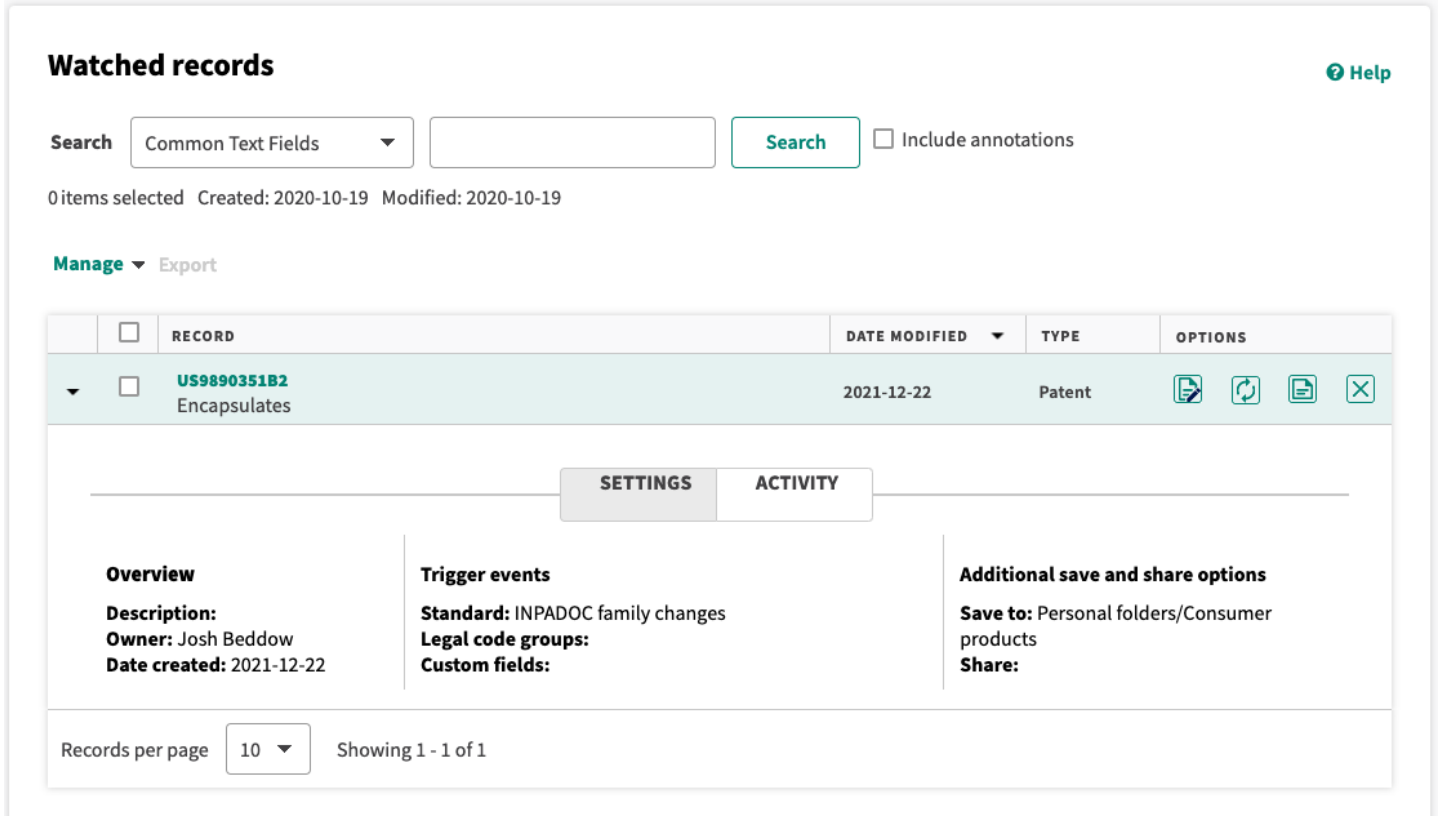

STAY UP TO DATE ON THE LATEST PUBLICATIONS AND CHANGES IN STATUS

- Automatically monitor patents for changes in legal status, reassignment, new citations, and more
- Customize monitoring to match your needs: by event type, document type (patent or literature), geographic region, and notification frequency
- Monitor emerging technologies and maintain search projects with alert notifications when new records matching your criteria are available

Example

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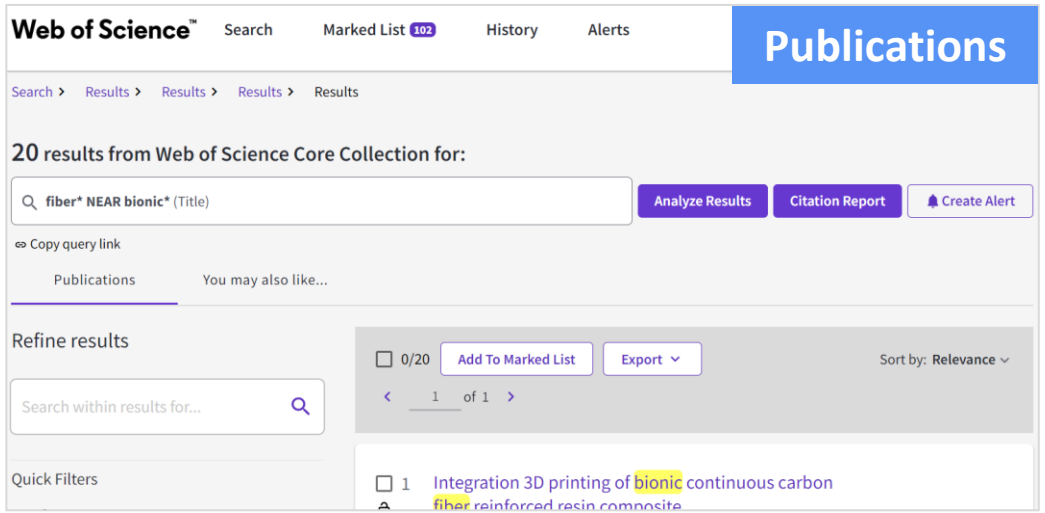
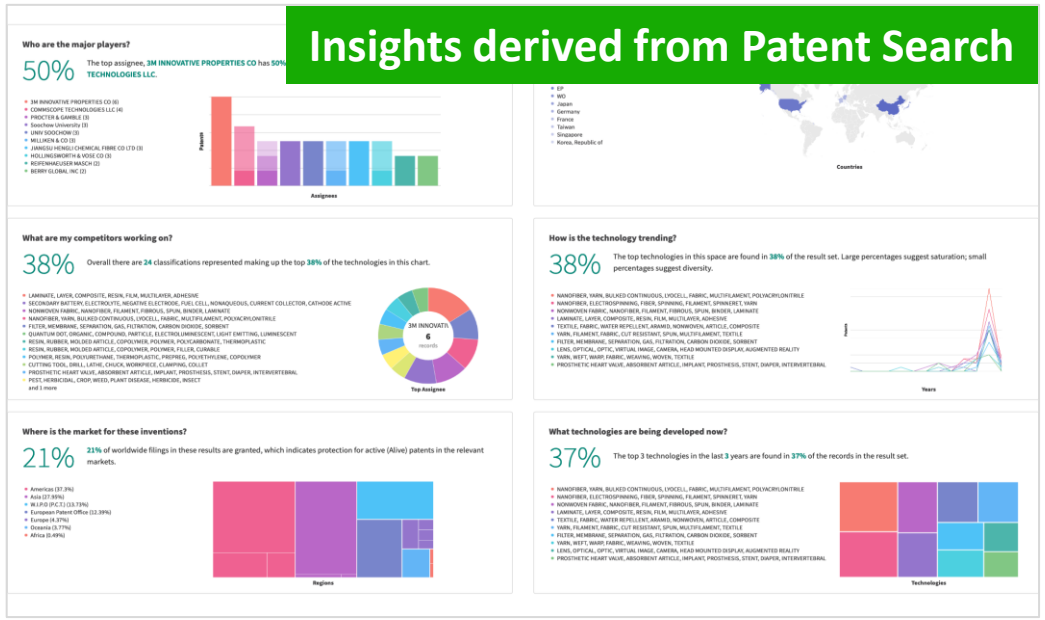
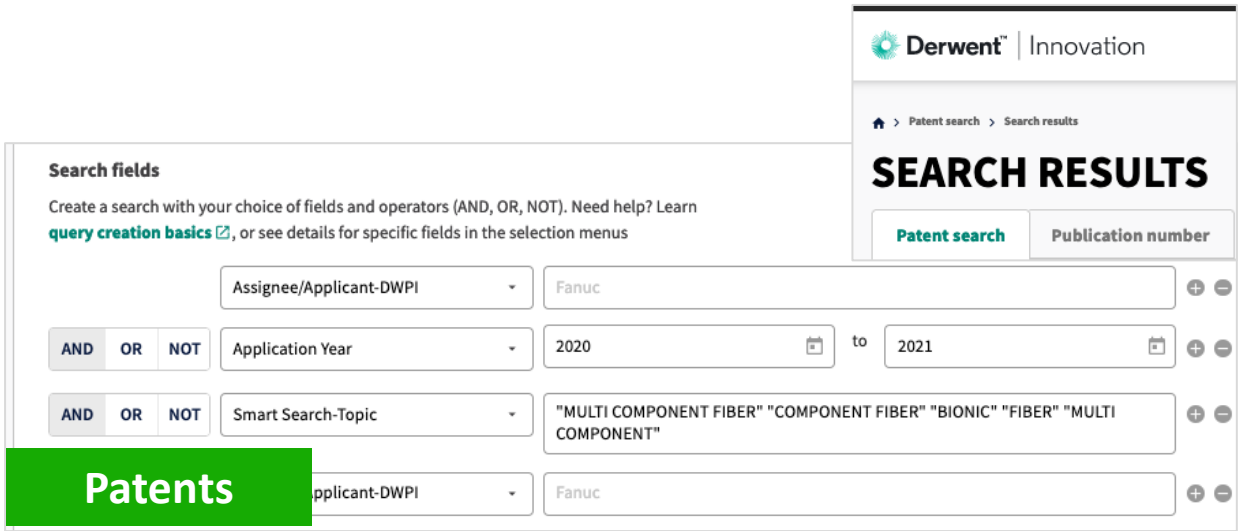
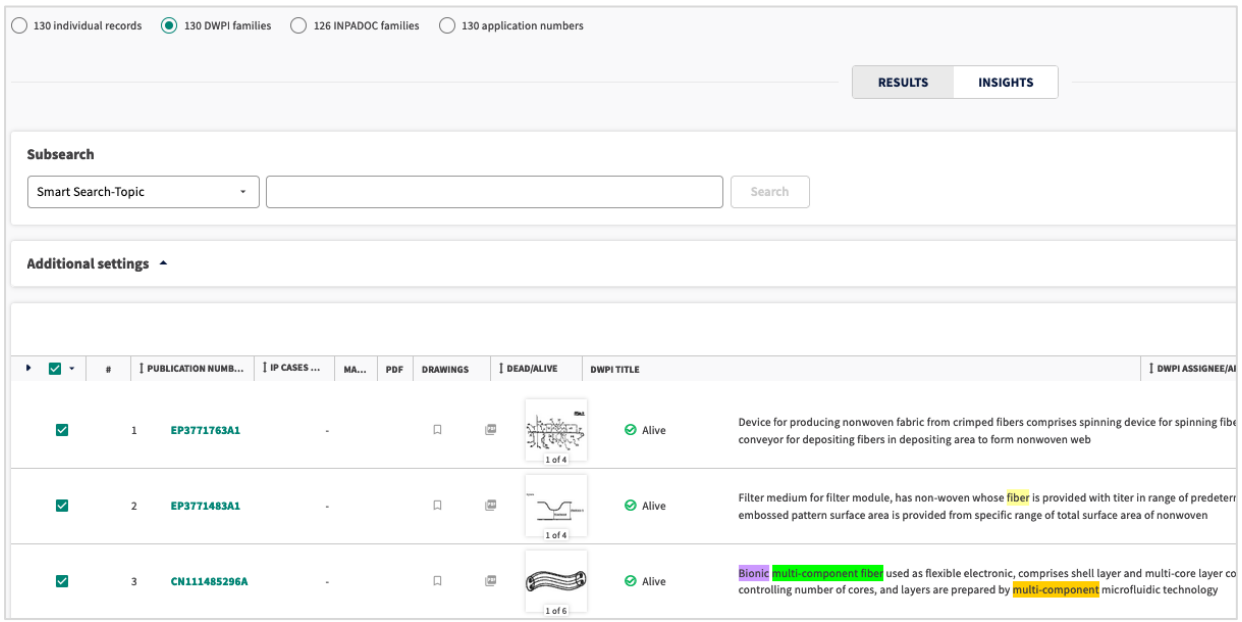
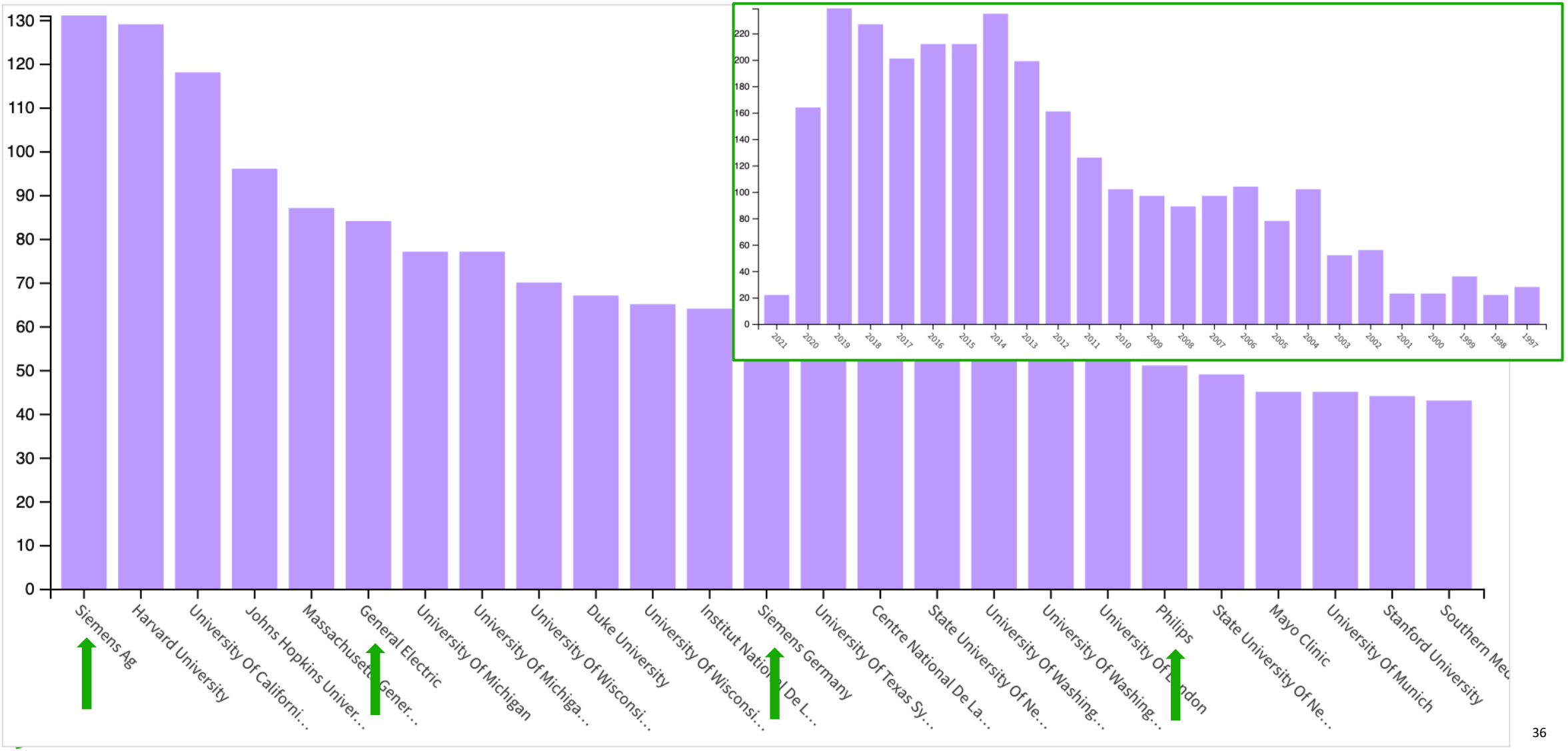




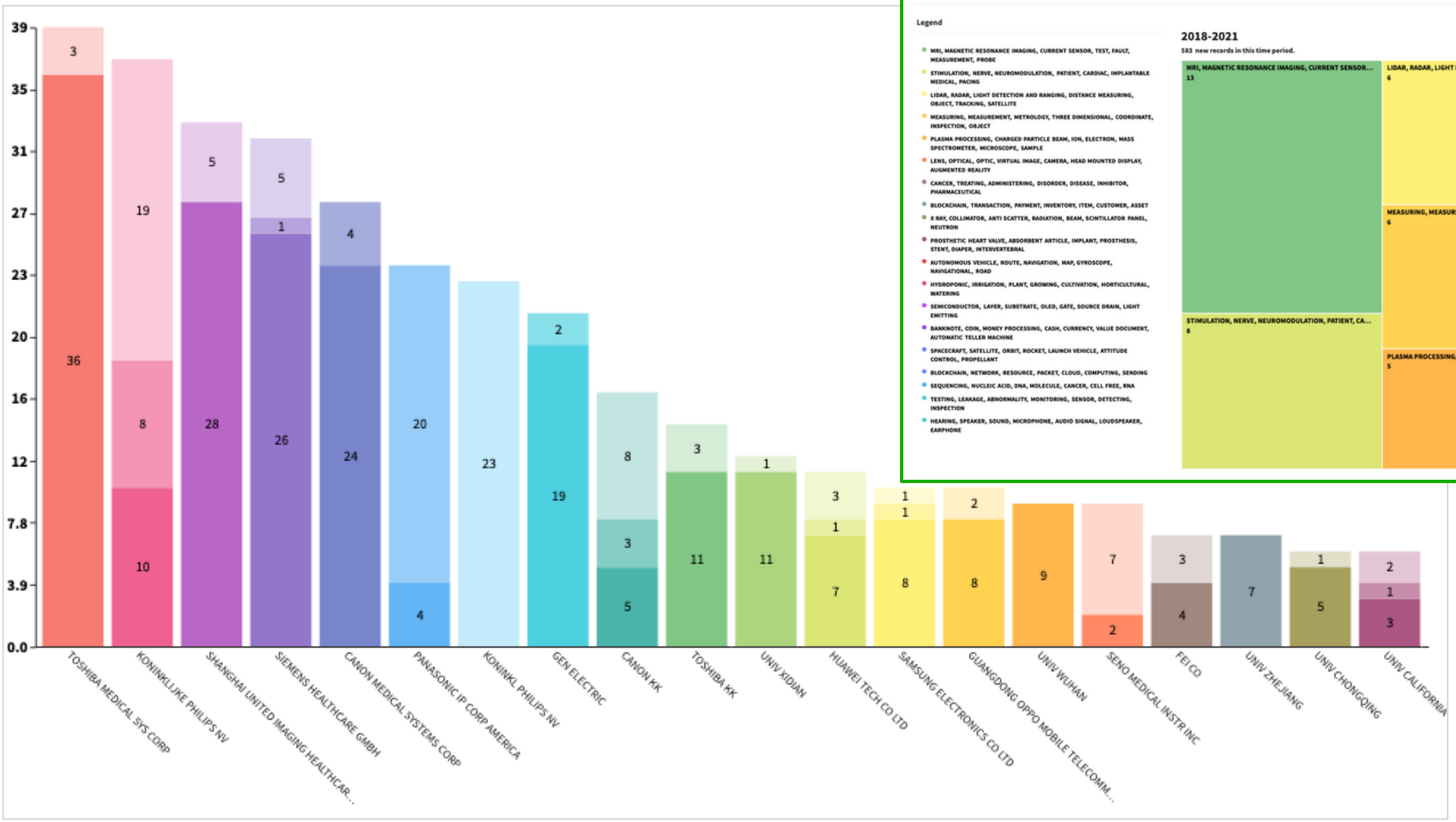


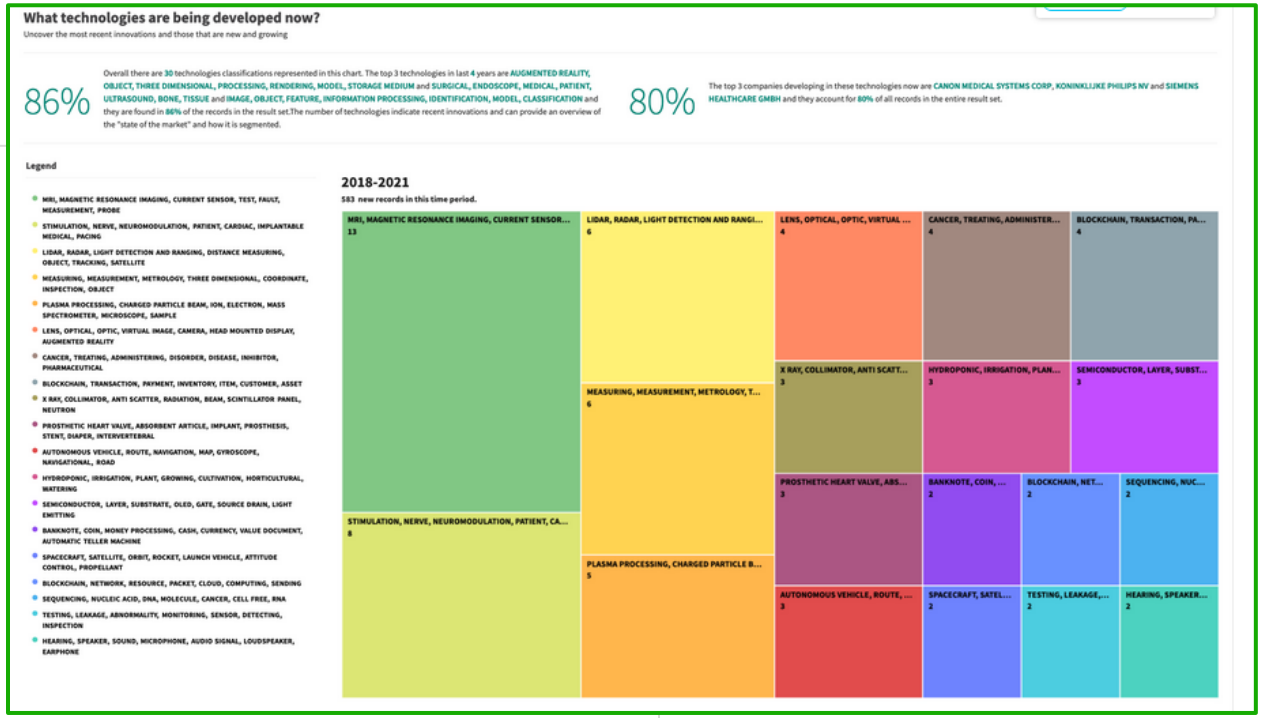


Statistical Image reconstruction-CT | Publications



Statistical Image reconstruction-CT | Patents





Vă mulțumesc

Adriana Filip
Solutions Consultant
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