



# Căutarea, vizualizarea și analiza brevetelor

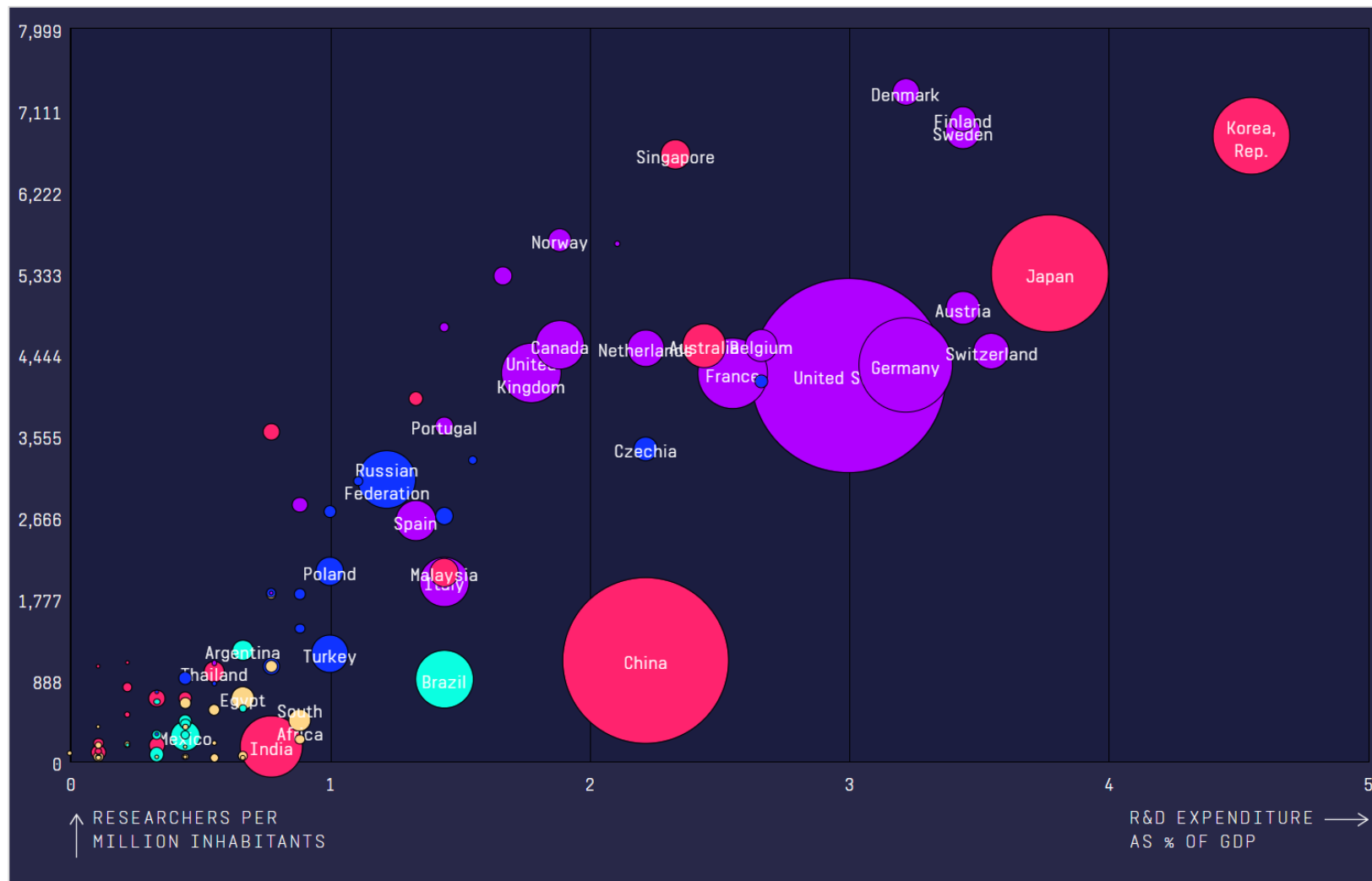
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Februarie 2022

# 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

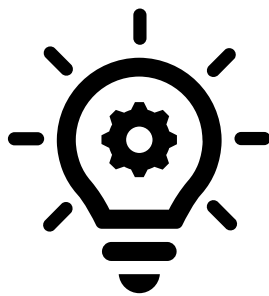
## What can be patented?

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

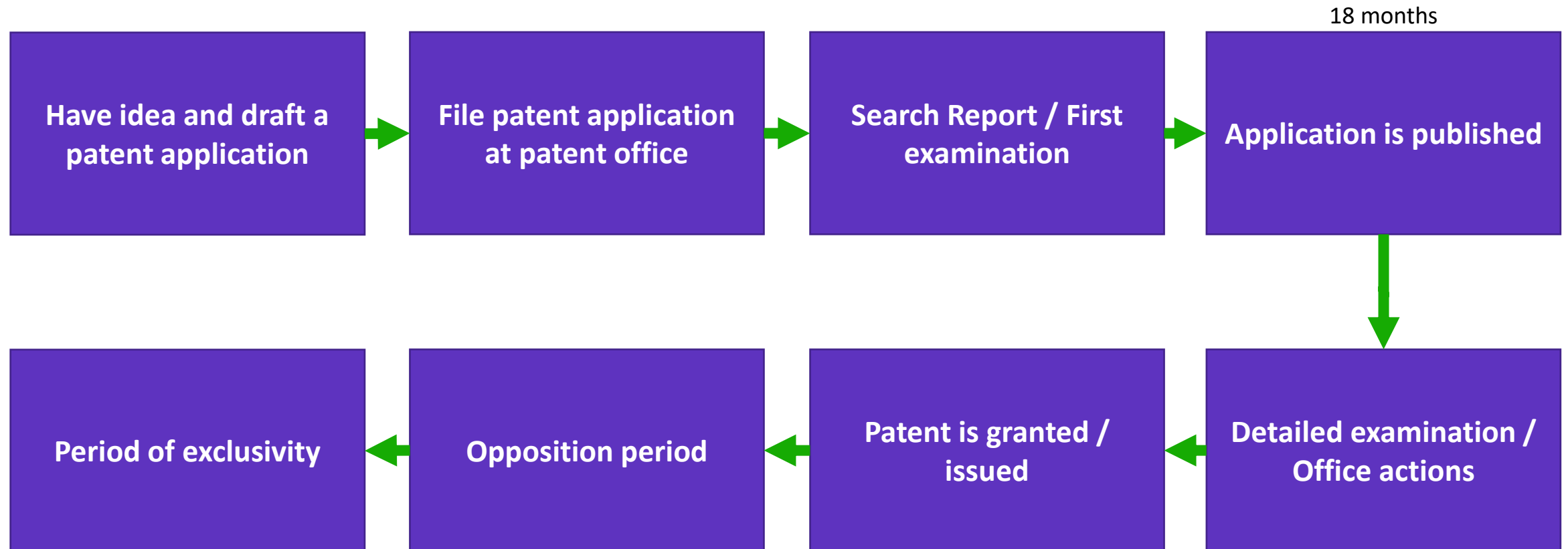


## Criteria for grant of patent


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**

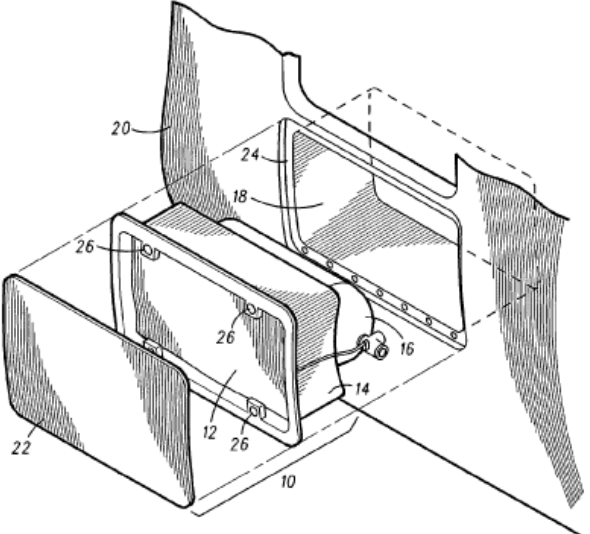
(5) **FRANGIBLE PNEUMATIC LATCH** (52) U.S. Cl. .... 244/137.2; 244/905; 182/48  
 (7) **Inventor: Gary L. Matsch, Phoenix, AZ (US)** (57) **ABSTRACT**  
 Correspondence Address:  
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**Suite 2400**  
**1850 N. Central Avenue**  
**Phoenix, AZ 85004 (US)**


(8) **Assignee: Goodrich Corporation, Charlotte, NC**  
 (21) Appl. No.: **11/138,154**  
 (2) **Filed: May 26, 2006**

**Publication Classification**

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

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** (10) **Patent No.: US 7,380,755 B2**  
**Matsch** (45) **Date of Patent: Jun. 3, 2008**

(54) **FRANGIBLE PNEUMATIC LATCH** (52) U.S. Cl. .... 244/137.2; 244/905; 193/25 B  
 (75) **Inventor: Gary L. Matsch, Phoenix, AZ (US)** (57) **ABSTRACT**  
 (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, 2006**  
 (65) **Before Publication Date**  
 US **2006/0266888 A1** **Nov. 30, 2006**

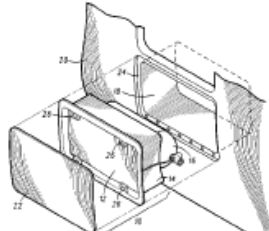
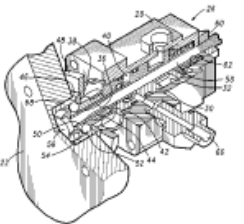
(51) **Int. Cl. B64D 25/14 (2006.01)**  
 (52) **U.S. Cl. .... 244/137.2; 244/905; 292/252**  
 (58) **Field of Classification Search .... 244/137.1, 244/137.2, 905, 118.3; 292/137, 138, 144, 292/150, 252; 182/48; 280/728.3**  
 See application file for complete search history.

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(Continued)  
 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**

# 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** 2006/48

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

(21) **Application number:** 05252751.2

(22) **Date of filing:** 04.06.2005

(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

(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)**

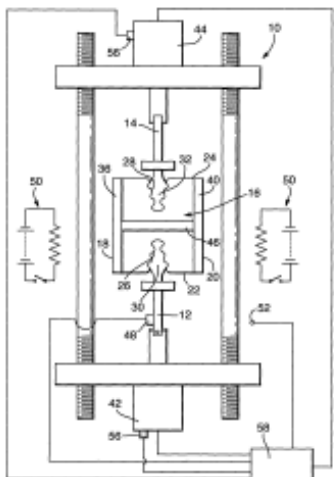
(30) **Priority:** 05.06.2004 GB 0412591

(71) **Applicant:** ROLLS-ROYCE PLC  
**London, SW1E 6AT (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 fitree slot (26) to receive a first component (12) and the second edge (24) has a second fitree slot (28) to receive a second component (14). The first component (12) has a fitree attachment feature (30) to fit the first slot (26) and the second component (14) has a fitree 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 fitree attachments for turbine blades and discs.

**Fig.1.**



**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<sup>(2008.01)</sup> G01N 3/04<sup>(2008.01)</sup> G01M 13/02<sup>(2008.01)</sup>

(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

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

(30) **Priority:** 05.06.2004 GB 0412591

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

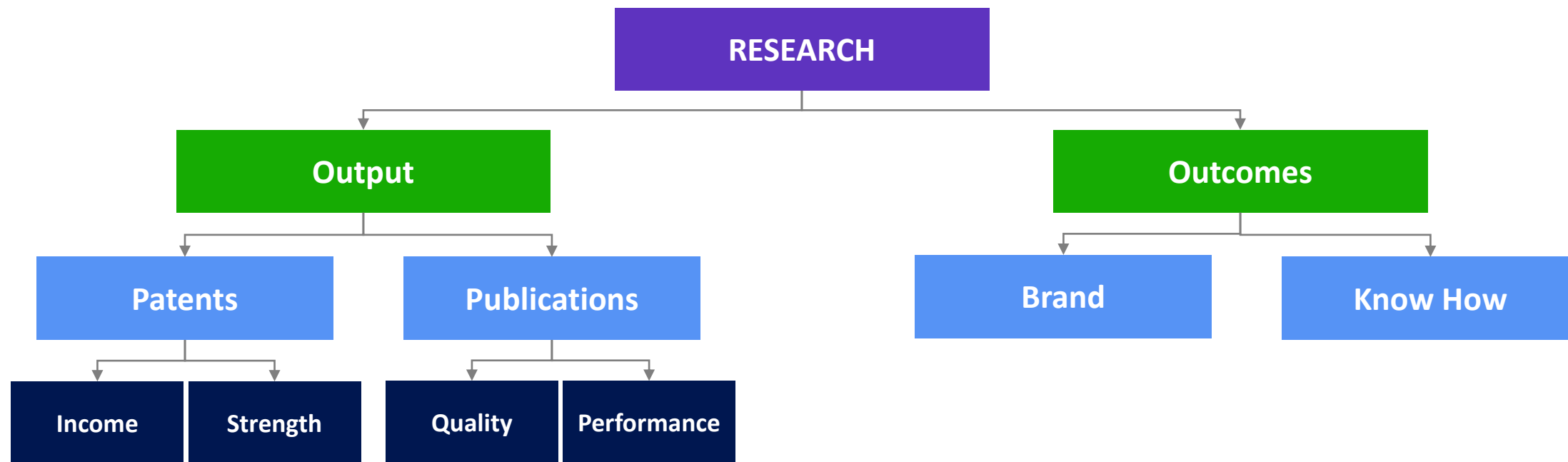
(43) **Date of publication of application:** 07.12.2005 **Bulletin** 2005/49

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**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/rjaest.13.3348  
 ISSN: 2040-7459 e-ISSN: 2040-7467  
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 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**  
 Kambiz Ghafourian, Zaini Mohamed, Syuhaida Ismail, Roya Malakute and Maryam Abolghasemi  
 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 106; 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 Mood (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 (Lefevre *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 (Check *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 (Check *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 area of CDW management published from the year 2000 to February 2016.

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 741

# Purpose Share knowledge

## Intention

Establish expertise in the field

USDA/697874B1

(12) **United States Patent**  
**Faircloth**

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

(50) **CONCRETE HOLE CUTTING MACHINE** OTHER PUBLICATIONS  
 (70) Inventor: **Terry Faircloth, 107 Ashley Ln., Dunn, NC (US) 28534** "Kee-It-K-7000Rites System," <http://www.kee-it.com/bucket-skid-core-drills.htm>  
 Primary Examiner—George Nguyen  
 (75) Attorney, Agent, or Firm—Cook & Bowen, P.L.L.C.

(\* ) 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.: **10843376**

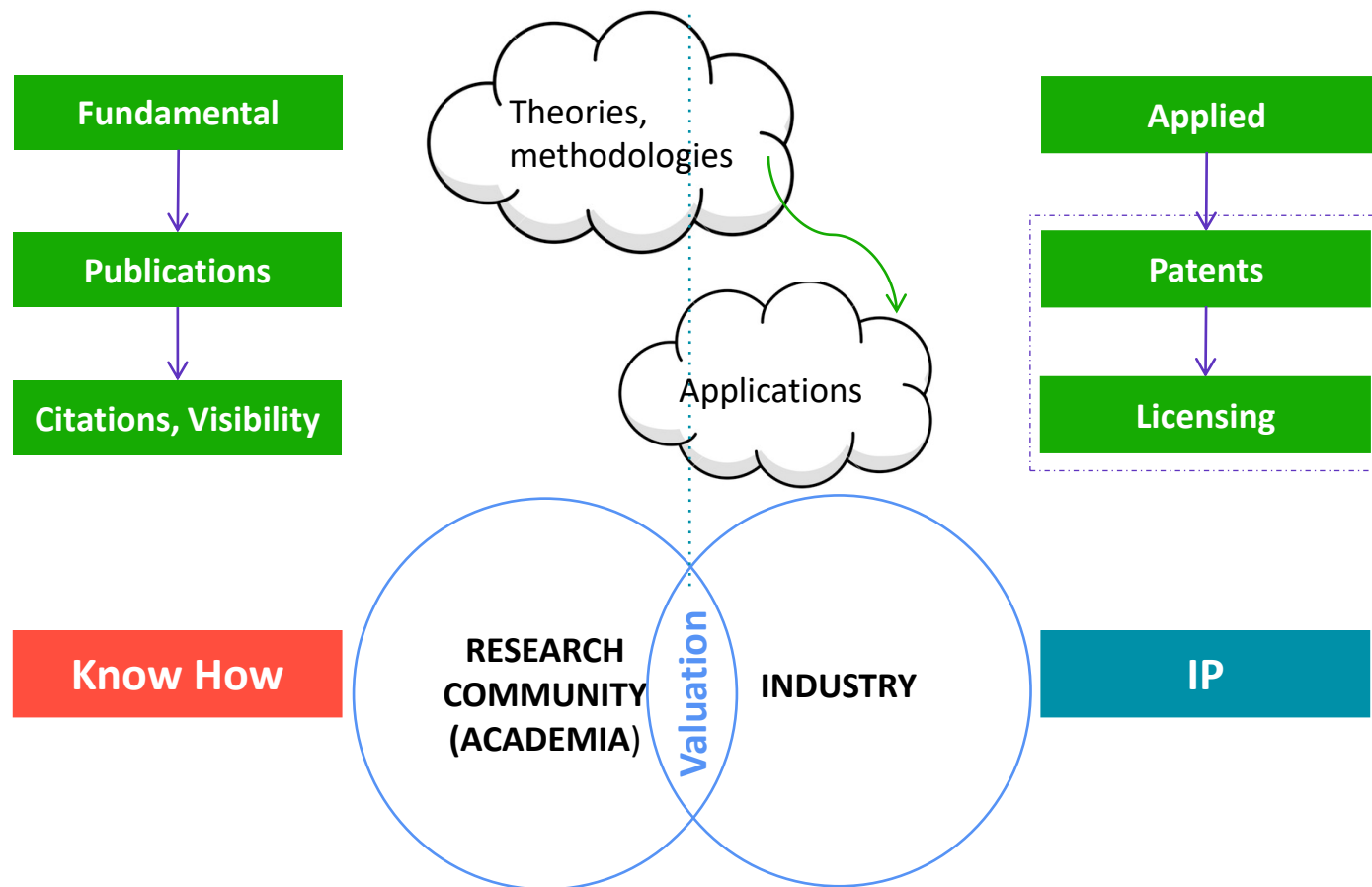
(22) Filed: **May 10, 2004**

(51) Int. Cl.<sup>7</sup> **B24D 1/04**  
 (52) U.S. Cl. **125/138; 125/139; 125/140; 125/141; 125/142; 125/143; 125/144; 125/145; 125/146; 125/147; 125/148; 125/149; 125/150; 125/151; 125/152; 125/153; 125/154; 125/155; 125/156; 125/157; 125/158; 125/159; 125/160; 125/161; 125/162; 125/163; 125/164; 125/165; 125/166; 125/167; 125/168; 125/169; 125/170; 125/171; 125/172; 125/173; 125/174; 125/175; 125/176; 125/177; 125/178; 125/179; 125/180; 125/181; 125/182; 125/183; 125/184; 125/185; 125/186; 125/187; 125/188; 125/189; 125/190; 125/191; 125/192; 125/193; 125/194; 125/195; 125/196; 125/197; 125/198; 125/199; 125/200; 125/201; 125/202; 125/203; 125/204; 125/205; 125/206; 125/207; 125/208; 125/209; 125/210; 125/211; 125/212; 125/213; 125/214; 125/215; 125/216; 125/217; 125/218; 125/219; 125/220; 125/221; 125/222; 125/223; 125/224; 125/225; 125/226; 125/227; 125/228; 125/229; 125/230; 125/231; 125/232; 125/233; 125/234; 125/235; 125/236; 125/237; 125/238; 125/239; 125/240; 125/241; 125/242; 125/243; 125/244; 125/245; 125/246; 125/247; 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# Applied vs Basic Research

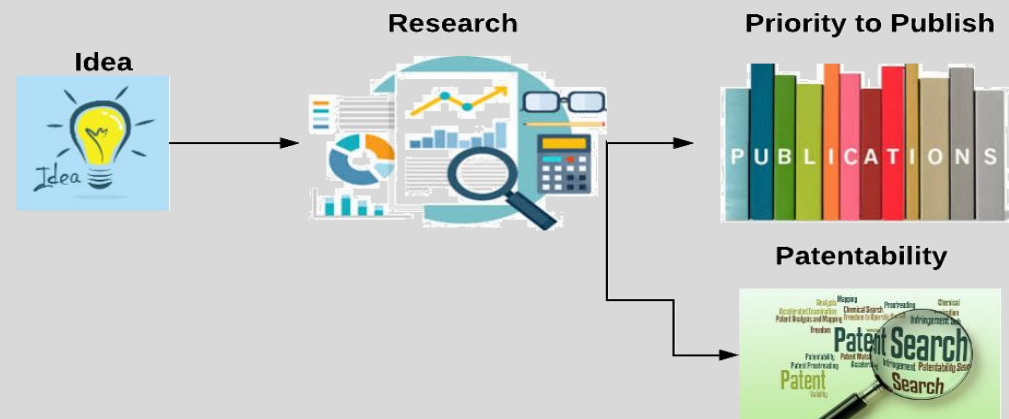
## Pathway from Research to IP, Strategy

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

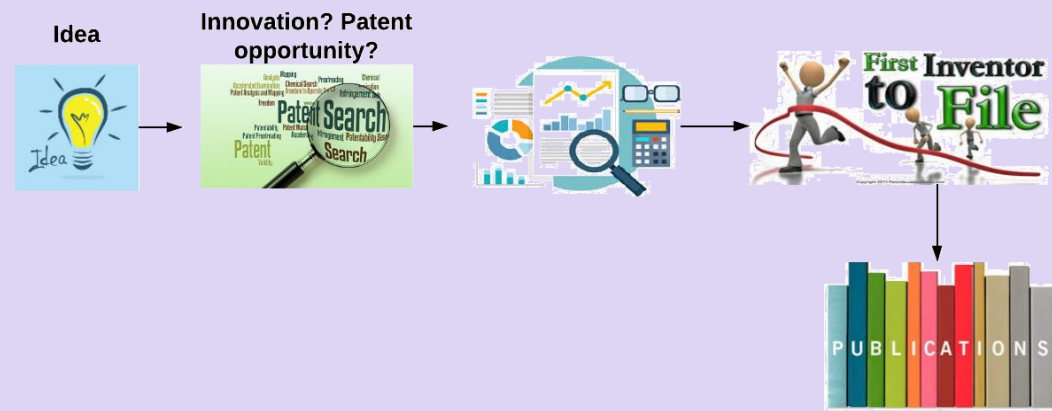


# An innovative approach

## 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

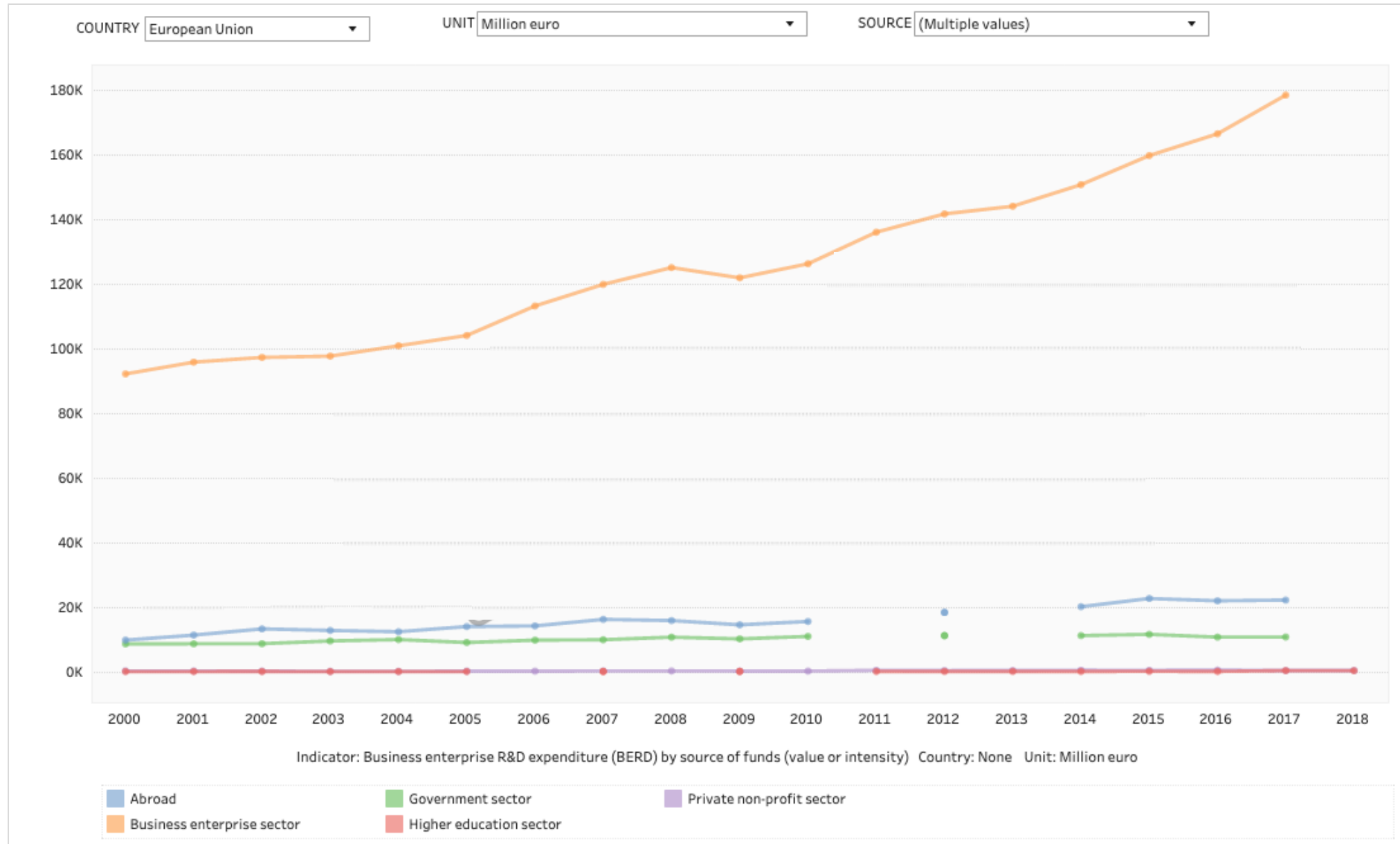


It is important to recall that, in the context of the European Community R&D Framework Programs, participants need to demonstrate the innovative character of the project they propose. A proper analysis of the state of the art is one of the criteria project proposals are evaluated upon, and therefore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

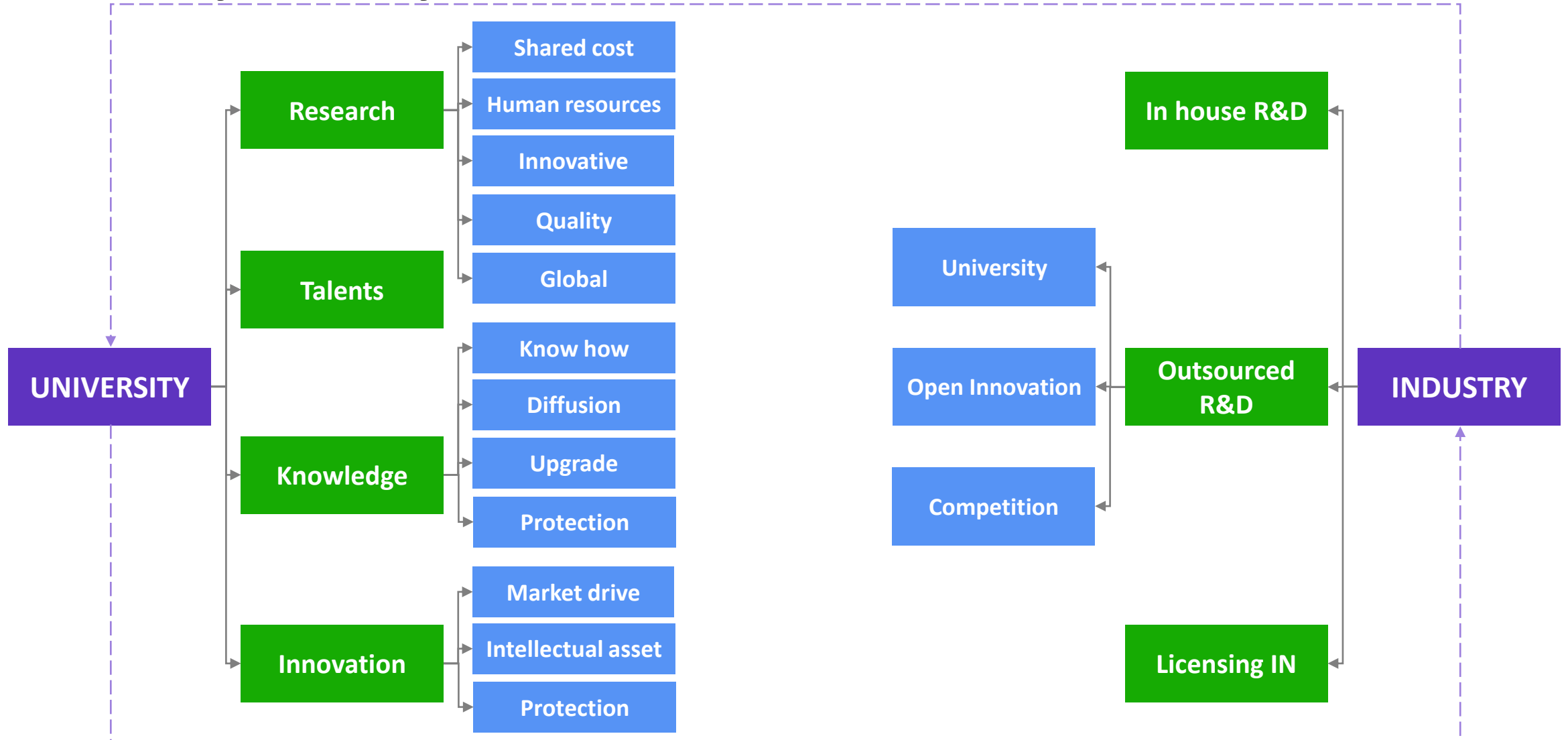
Up to 80% of current technical knowledge can only be found in patent document [\*].  
Moreover, this information is rapidly available, as most patent applications are published 18 months after the first filing, irrespective of their country of origin.

# Who is spending on R&D?

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



# University-Industry relations



# Completing the research picture with Derwent Innovations Index



# Web of Science platform content



**34,000+**

Journals across the platform

**101 million**

Patents for over 50 million inventions

**21,000+**

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**13 million+**

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With cover-to-cover indexing

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**128,000+**

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# Derwent Innovations Index on Web of Science

**Derwent Innovations Index (DII)** facilitates rapid, precise patent searching, letting you conduct patent and citation searches of inventions in chemical, electrical, electronic, and mechanical engineering.

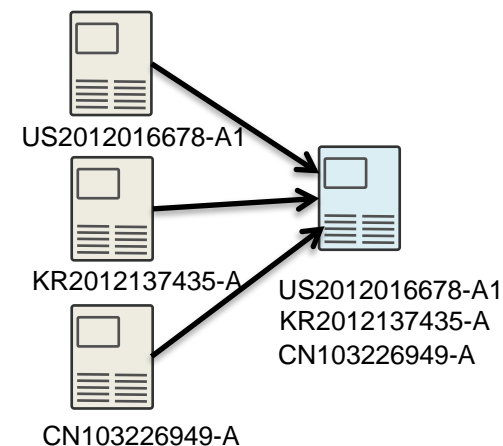
DII merges the value-added patent information from **Derwent World Patents Index** with the patent citation information from **Derwent Patent Citation Index\***.

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.*

- ✓ Over 101M individual patent documents
- ✓ 59 patent issuing authorities covered
- ✓ 7M patents added in the last year
- ✓ Coverage 1963 to present



# Derwent Innovations Index on Web of Science

## Comprehensive Coverage

Derwent Innovations Index covers over 14.3 million basic inventions from almost 60 worldwide patent-issuing authorities and creates a unique patent family for every invention to speed discovery.

All Derwent titles and abstracts are written in plain English, to aid searching across patents issued in other languages, and to make it easy to understand an inventions novelty and claims.

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Accessing Derwent Innovations Index on Web of Science means you can simultaneously search all other Web of Science resources your institution subscribes to and take advantage of their powerful tools such as cited reference searching.

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Find trends and patterns, gain insight into emerging fields of research, and identify leading researchers, institutions, and journals with the Analyze Tool.

## Backfile Data to 1963

Track over 55 years of vital data to discover all relevant prior art. More backfiles give you the power to conduct deeper, more comprehensive searches and track trends through time.

# Patent data in the Derwent Innovations Index

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(74) Agent: **KAYA, Erdem**, Kurah Mah. Kadifesi Sok. Etilerpark  
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(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,  
DZ, EC, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,  
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,  
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,  
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,  
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RU, RW,  
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,  
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(84) Designated States (unless otherwise indicated, for every  
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GM, KE, LR, LS, MW, MZ, NA, RW, SD, SI, ST, SZ, TZ,  
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TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV,  
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,  
TR), OAPI (BF, BI, CG, CI, CM, GN, GT, GW, KM,  
ML, MR, NE, NG, SN, TD, TG).

(54) Title: PRODUCTION OF  $F_{2n}N_{2n}$  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

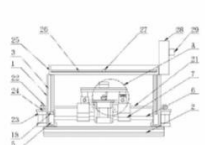
(21) 申请号 201910195919.3  
(22) 申请日 2019.03.15  
(71) 申请人 烟台工程职业技术学院(烟台市中  
学院)  
地址 264006 山东省烟台市开发区珠江路  
烟台工程职业技术学院  
(72) 发明人 于竹林 刘娟  
(74) 专利代理机构 北京科亿知识产权代理事务  
所(普通合伙) 11350  
代理人 汤东凤

(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  
一种可以嵌入桌子实现自动控制的沙画的装置

(57) 摘要  
本发明公开了一种可以嵌入桌子实现自  
动控制沙画的装置,具体涉及沙画控制技  
术领域,包括稳定控制架支脚,所述稳定控制架支脚  
包括底座支脚,所述底座支脚,所述底座支脚顶部  
固定有固定架料,所述固定架料一侧设有三角固  
定扣,所述固定架料前侧面设有第一固定板,所  
述第一固定板一侧设有第一光柱,所述第一光柱  
外侧套接有第一滑块,所述第一滑块前侧面固  
定设有第一打印零件,所述第一打印零件底  
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控制架支  
脚,嵌入式设计提高钢铁运动的稳定性,会影响到沙  
画回轮的协调性,提高影响永磁体吸引钢珠的效  
率避免,发生脱离情况,提高画面的速度和精度  
度。



CS 109823115 A

**A Typical Patent |** Patents are filed in multiple offices around the world, each having its own formats and standards. They are usually written in a way that makes them difficult to understand. This can make the task of tracing patents an onerous one.

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 magnetiz  
USE - Product  
ADVANTAGE -  
the available e

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

**The DII Equivalent |** Our editorial team use the original patent to create a record in DII, including:

- a more descriptive English Title; a plain English Abstract, with Novelty, Use, Advantage and if required, a Description of Drawings;
- all of the patent numbers that make up the family; links to original patent documents; unified Assignee codes where available
- International Patent Codes and our own Derwent Codes; full Patent Application details

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DII opens the power of patent searching to all levels of an organization, allowing you to browse patent records by entering simple search queries.

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Assignee aarhus univ\*

Search

Assignee

Searches the Patent Assignee Name(s) and Code(s) field. To identify a code belonging to a specific company, click 'Select from List'.

Examples:  
SOUT-N  
SOUTHCO UK LTD

Assignee - Name only

Derwent Chemistry Resource Number (DCR)

New macrocyclic compounds comprising a moiety used to treat cancer e.g. leukemia, tissue cancer, bone cancer, ocular cancer, neck cancer

Chemical Information

Patent Number: WO2021110968-A1

Inventors: ROULSEN T B; HJERRILD P; JACOBSEN

Patent Assignee:

UNIV AARHUS (UYUA-C)

Derwent Primary Accession Number: 2021-6311

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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# Specialist indexing

Derwent Innovations Index has several specialist indexes available for searching.

- **Derwent Class Codes:** allows user to quickly retrieve a category of inventions
- **Derwent Manual Codes:** indicates the novel technical aspects of the invention
- **Patent Assignee Codes:** enable all of a company's patents to be found even though they may have filed them under different name variations (>20k companies).

**Derwent Manual Codes** are assigned to patents by Derwent's indexers. They are used to indicate the novel technical aspects of an invention, and also its applications. Using manual codes to create a detailed search strategy can significantly improve the speed and accuracy of searching.

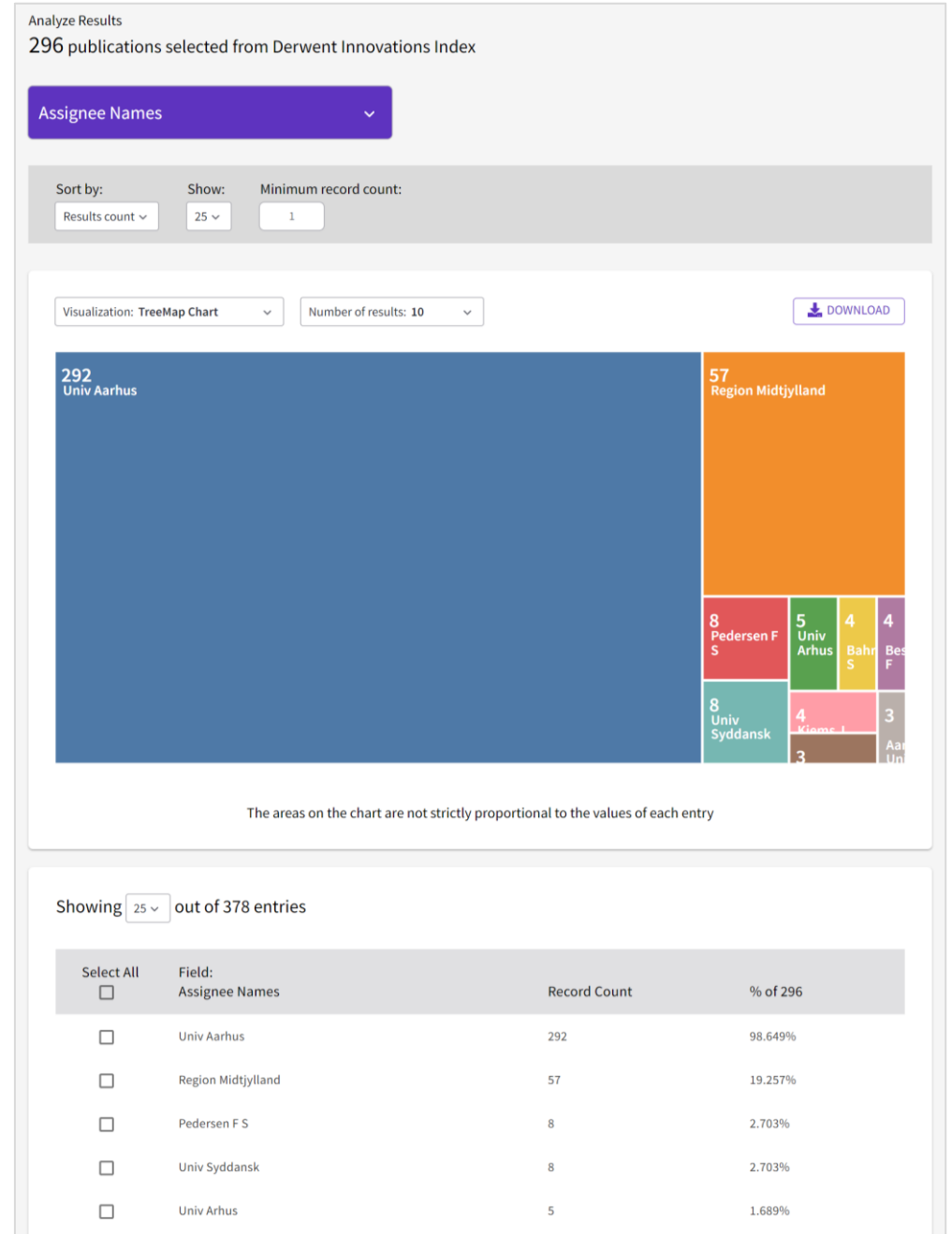
The image shows two overlapping screenshots of the Derwent search interface. The top-left screenshot, titled "Derwent Manual Codes", shows a tree view under "Section A: Plasdoc" with categories like "A01 MONOMERS, CONDENSANTS" and "A01-A MONOMERS, CONDENSANTS NOT CONTAINING HETEROATOMS, B, SI, METAL, OR NITROSO GROUPS". Each category has an "Add" button. The bottom-right screenshot, titled "Derwent Class Codes", shows a tree view under "Chemical Sections (A - M)" with categories like "A Polymers and Plastics" and "A1 Addition and Natural Polymers". It lists specific codes such as "A11 Polysaccharides; natural rubber; other natural polymers" and "A12 Polymers of di-and higher olefins; acetylenics; nitroso compounds", each with an "Add" button.

The image shows a screenshot of the Derwent search interface. At the top, there are tabs for "DOCUMENTS" and "RESEARCHERS". Below this is a search bar with the text "Search in: Derwent Innovations Index". Underneath the search bar are three tabs: "DOCUMENTS", "CITED PATENT SEARCH", and "COMPOUND SEARCH". The "DOCUMENTS" tab is active. Below the tabs is a search input field with a dropdown menu for "Derwent Manual Code" and a text input field containing "Example: T01-L02". To the right of the input field is a green icon with a plus sign. Below the input field are two buttons: "+ Add row" and "+ Add date range". To the right of these buttons is the text "Advanced Search". At the bottom right are two buttons: "X Clear" and "Search".


# Analyse Results

**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.



# Citations

<p>New therapeutic composition comprises an RNA complex comprising a core double-stranded region, useful for treating cancer, atherosclerosis, hypercholesterolemia, hyperlipidemia, or an inflammatory disease</p> <p> Patent Family</p> <p>Inventors: WENGEL J; KJEMS J Patent Assignees: UNIV SYDDANSK(UYSY-Non-standard) UNIV AARHUS(UYUA-C) SANTARIS PHARMA AS(SANT-Non-standard)</p>	<p>Citation Network</p> <p>In Derwent Innovations Index</p> <p><b>124</b> Citing Patents</p> <table><tr><td>Articles Cited by Examiner</td><td>Patents Cited by Examiner</td></tr><tr><td><b>50</b></td><td><b>63</b></td></tr></table>	Articles Cited by Examiner	Patents Cited by Examiner	<b>50</b>	<b>63</b>
Articles Cited by Examiner	Patents Cited by Examiner				
<b>50</b>	<b>63</b>				

DII records any citation information associated with a patent family. This includes:

- ✓ any other patents that cited it
- ✓ patents cited by the Inventor and the Examiner
- ✓ articles cited by Inventor and the Examiner
- ✓ Where these items are in the Web of Science, links are provided to the records.

DOCUMENTS CITED PATENT SEARCH COMPOUND SEARCH

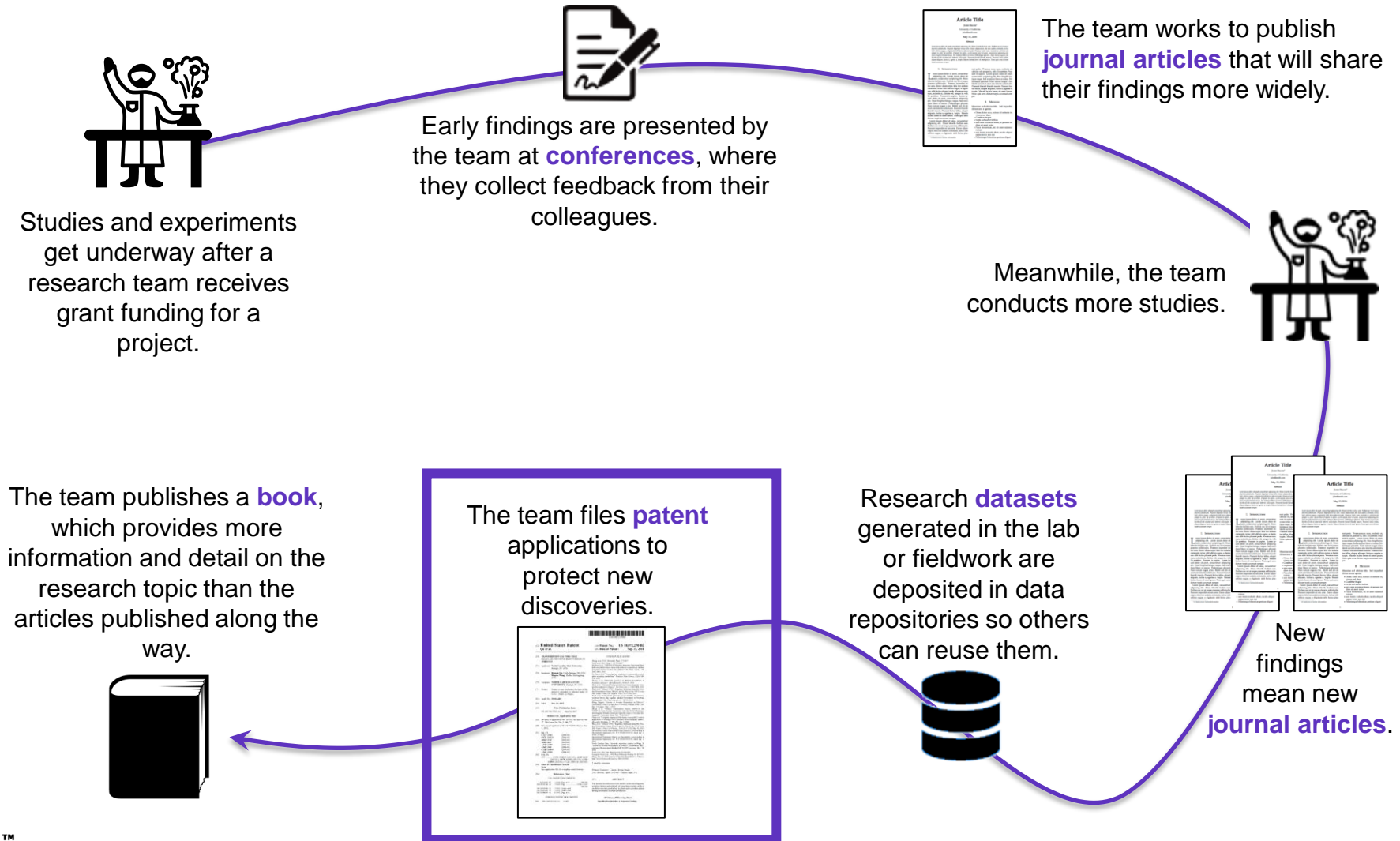
Find the patents that cite a patent or patents. Enter the patent number, assignee, inventor, and/or accession number. Fields can be combined with the Boolean AND, OR or NOT operators.

Cited Patent Number	Example: EP797246 or US5723945-A	
And	Cited Assignee	Example: XEROX CORP or XERO
And	Cited Inventor	Example: Smith A*

## Cited Patent Search



# All Database Search | Wider Discovery and Citation Tracking



# Why use the Derwent Innovations Index?



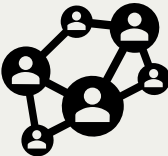
## Determine the State of the Art

- 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



## Identify competitors or collaborators

# Derwent Innovation

# Clarivate | IP solutions and services

## IP intelligence solutions

Darts-ip  
Derwent Innovation  
Derwent Data Analyzer  
Innography  
PatentScout  
CompuMark  
SAEGIS® Online Screening  
TM go365™

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FoundationIP  
Inprotech  
Unycom  
Memotech  
Patrawin  
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Ipendo  
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Forecast  
Network Collaboration Tools  
Domain Management

## IP services

Patent & Trademark Maintenance  
Filing & Prosecution Support  
Patent Translations Services  
Domain Optimization

# Derwent solutions

We help government agencies and universities evaluate the patent landscape, identify future trends and issue and enforce IP rights around the world.

Our solutions support their critical role in fostering innovation – from patent applications to policy-making and investing in scientific and technological research.



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# Derwent Innovation

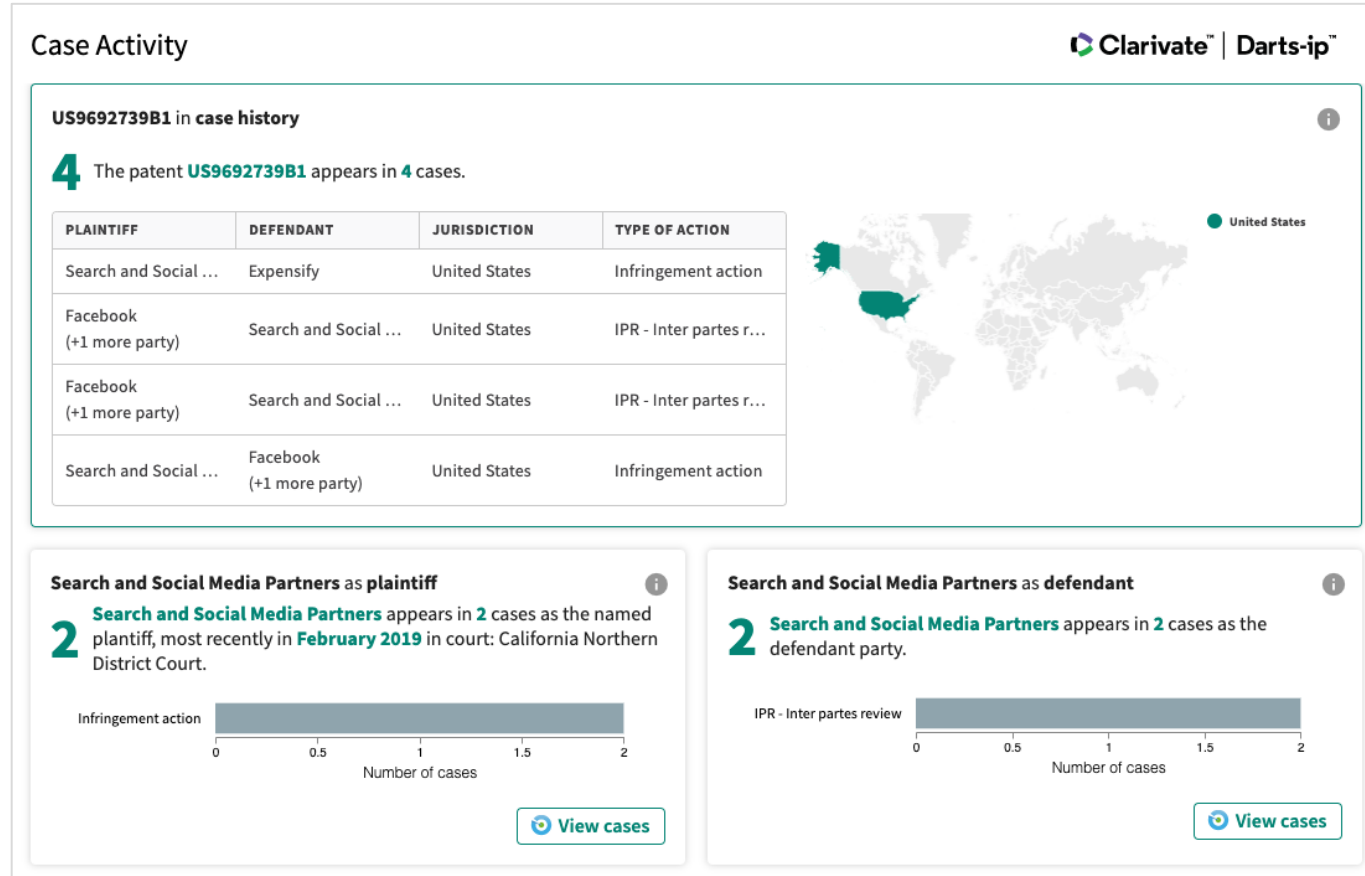
The screenshot shows the Derwent Innovation search interface. At the top left is the logo 'Derwent™ | Innovation'. To the right are navigation links: 'SEARCH ▾', 'SEARCH HISTORY', and 'SAVED WORK ▾'. Below the header is a large search bar with the placeholder text 'Enter keywords, phrases or text blocks to search' and a magnifying glass icon. Under the search bar are two radio buttons: 'Smart Search' (selected) and 'Publication numbers'. Below these are four white cards with green borders and icons, each with a right-pointing arrow in the bottom right corner:

- PATENT SEARCH**: Research global patent landscapes with precise search strategies and extensive, worldwide full-text coverage. (Icon: document with magnifying glass)
- NATIVE JAPANESE SEARCH**: Search and review published Japanese patent documents in original Japanese-language text. (Icon: document with magnifying glass)
- LITERATURE SEARCH**: Investigate the state-of-the-art as published in scientific literature such as academic journals and conference papers. (Icon: book with magnifying glass)
- SEARCH HISTORY**: Review and manage your previous search strategies. (Icon: list with magnifying glass)

## POWERFUL SEARCH ENGINES

- 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

# Derwent Innovation



## 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.

# Derwent Innovation

US8910819B2

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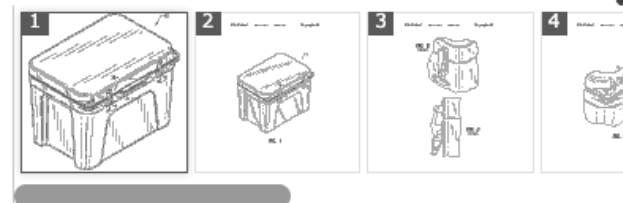
Preferred documents

DWPI family	Alive <a href="#">View details</a>	Expiration date	2031-11-28 (estimated) <a href="#">View factors</a>
INPADOC family	Alive <a href="#">View details</a>	Remaining life	3600 days (9 year(s), 10 month(s))
Original assignee	YETI Coolers LLC, Austin, TX, US, Seiders Roy J...	Domain Influence	81.35
Optimized assignee	YETI COOLERS LLC	Strategic Importance	17.23
Ultimate parent	YETI COOLERS LLC	Combined Patent Impact	69.26

Jump to Bibliography Abstract Classes/Indexing **Legal status** Family Claims Description Citations Other Custom fields

## Predictive Analytics

Predictive Type	Data
Probability of Grant	100.00
Probability of Early Lapse	21.10
Probability of Restoration Post-Lapse	-



## 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



# Derwent Innovation

**Watched records** Help

Search     Include annotations

0 items selected Created: 2020-10-19 Modified: 2020-10-19

Manage

<input type="checkbox"/>	RECORD	DATE MODIFIED	TYPE	OPTIONS
<input type="checkbox"/>	<b>US9890351B2</b> Encapsulates	2021-12-22	Patent	

**SETTINGS**   **ACTIVITY**

**Overview**

**Description:**  
**Owner:** Josh Beddow  
**Date created:** 2021-12-22

**Trigger events**

**Standard:** INPADOC family changes  
**Legal code groups:**  
**Custom fields:**

**Additional save and share options**

**Save to:** Personal folders/Consumer products  
**Share:**

Records per page  Showing 1 - 1 of 1

## 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

# Searching “A Bionic Multi-component Fiber”

**Web of Science™** Search Marked List **102** History Alerts **Publications**

Search > Results > Results > Results > Results

20 results from Web of Science Core Collection for:

Q fiber\* NEAR bionic\* (Title) **Analyze Results** **Citation Report** **Create Alert**

Copy query link

Publications You may also like...

Refine results

0/20 **Add To Marked List** **Export** Sort by: Relevance

Search within results for...

Quick Filters

1 **Integration 3D printing of bionic continuous carbon fiber reinforced resin composite**

**Derwent™** | Innovation

Patent search > Search results

## SEARCH RESULTS

Patent search Publication number

**Search fields**  
Create a search with your choice of fields and operators (AND, OR, NOT). Need help? Learn [query creation basics](#), or see details for specific fields in the selection menus

Assignee/Applicant-DWPI Fanuc

AND OR NOT Application Year 2020 to 2021

AND OR NOT Smart Search-Topic "MULTI COMPONENT FIBER" "COMPONENT FIBER" "BIONIC" "FIBER" "MULTI COMPONENT"

Applicant-DWPI Fanuc

130 individual records 130 DWPI families 126 INPADOC families 130 application numbers

RESULTS INSIGHTS

Subsearch Smart Search-Topic Search

Additional settings

✓	#	PUBLICATION NUM...	IP CASES ...	MA...	PDF	DRAWINGS	DEAD/ALIVE	DWPI TITLE	DWPI ASSIGNEE/...
✓	1	EP3771763A1	-				🟢 Alive	Device for producing nonwoven fabric from crimped fibers comprises spinning device for spinning fiber conveyor for depositing fibers in depositing area to form nonwoven web	
✓	2	EP3771483A1	-				🟢 Alive	Filter medium for filter module, has non-woven whose fiber is provided with titer in range of predetermined embossed pattern surface area is provided from specific range of total surface area of nonwoven	
✓	3	CN111485296A	-				🟢 Alive	Bionic multi-component fiber used as flexible electronic, comprises shell layer and multi-core layer controlling number of cores, and layers are prepared by multi-component microfluidic technology	

## Insights derived from Patent Search

**Who are the major players?**  
50% The top assignee, 3M INNOVATIVE PROPERTIES CO has 50% of the technologies in this space.

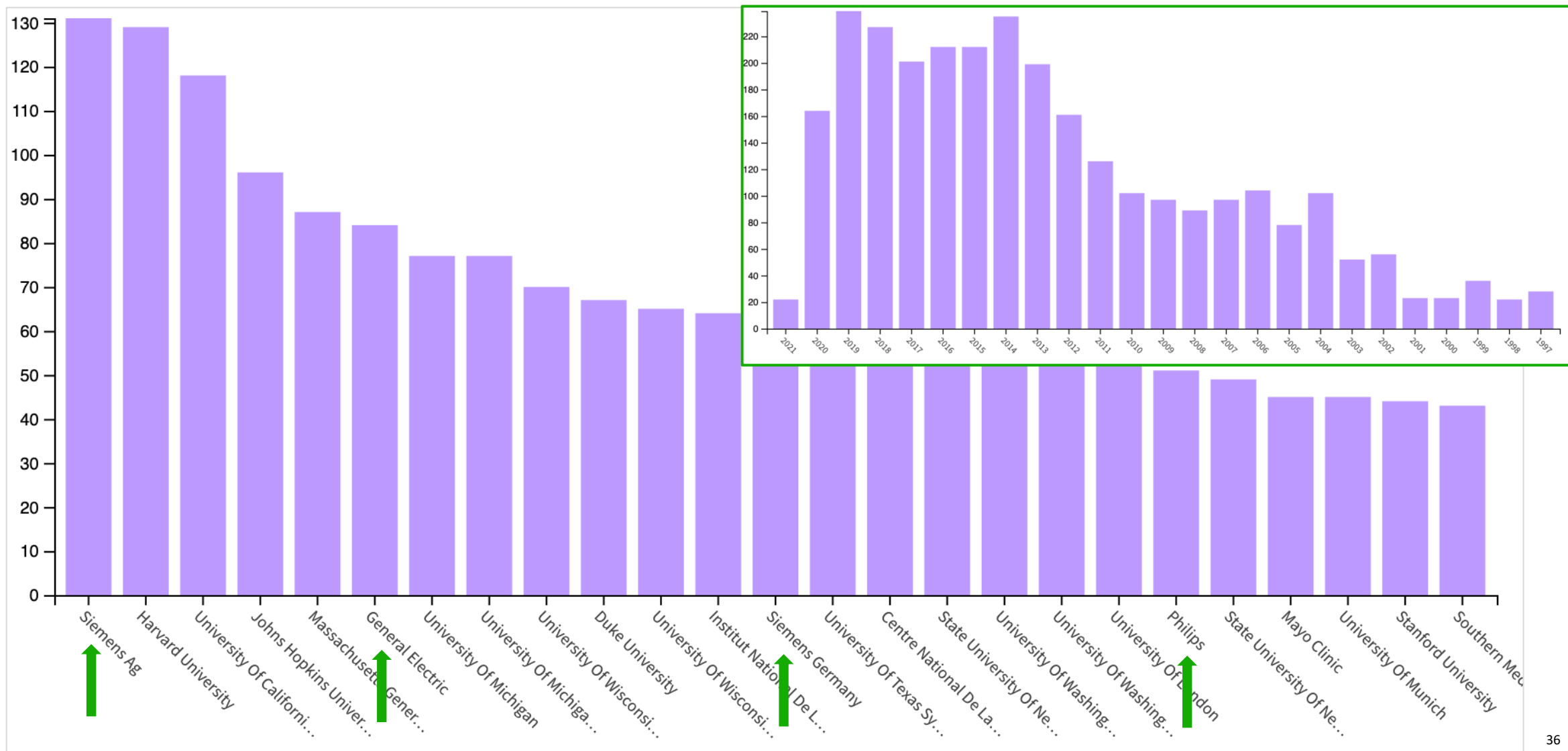
**What are my competitors working on?**  
38% Overall there are 34 classifications represented making up the top 38% of the technologies in this chart.

**How is the technology trending?**  
38% The top technologies in this space are found in 38% of the result set. Large percentages suggest saturation; small percentages suggest diversity.

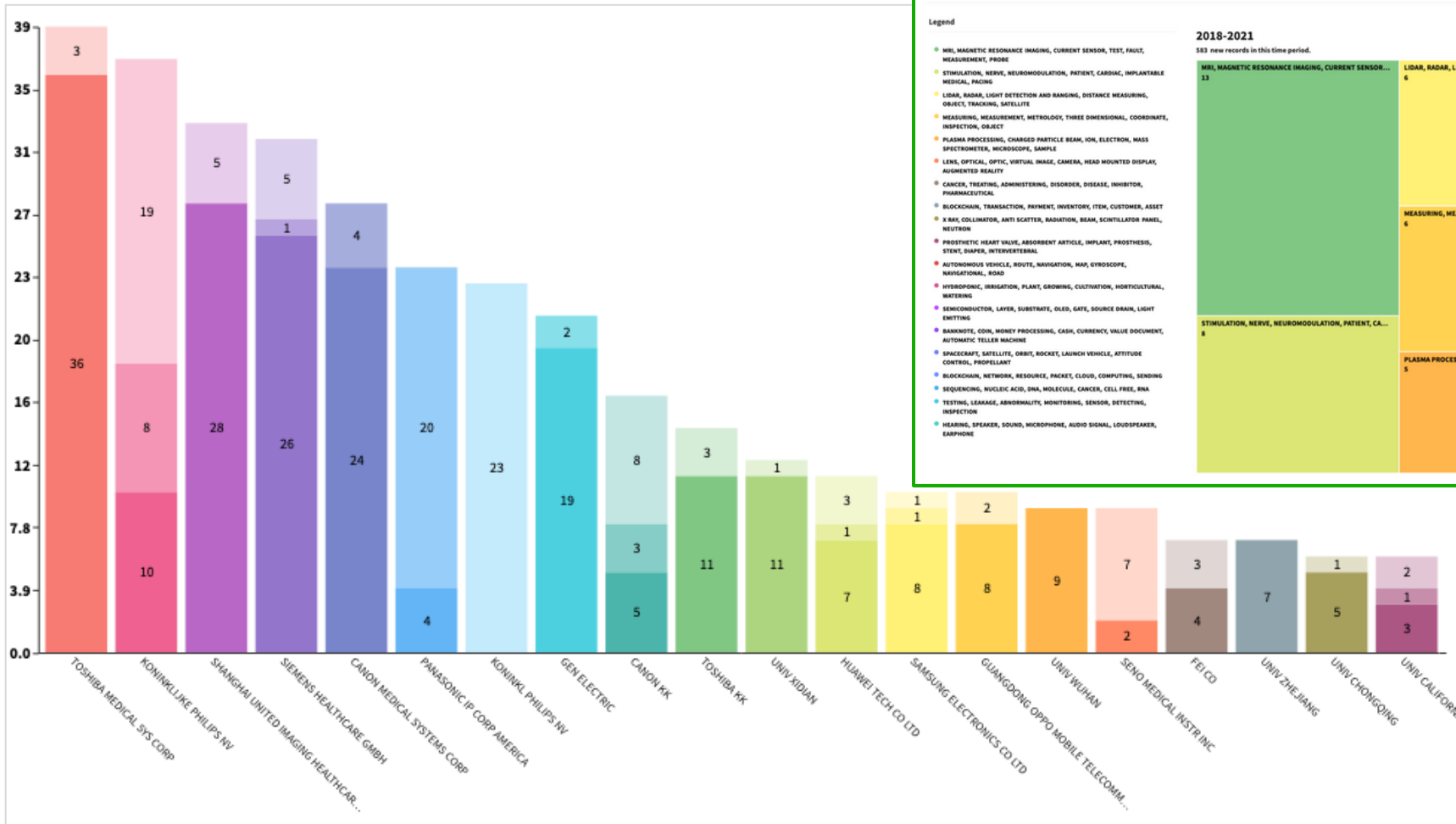
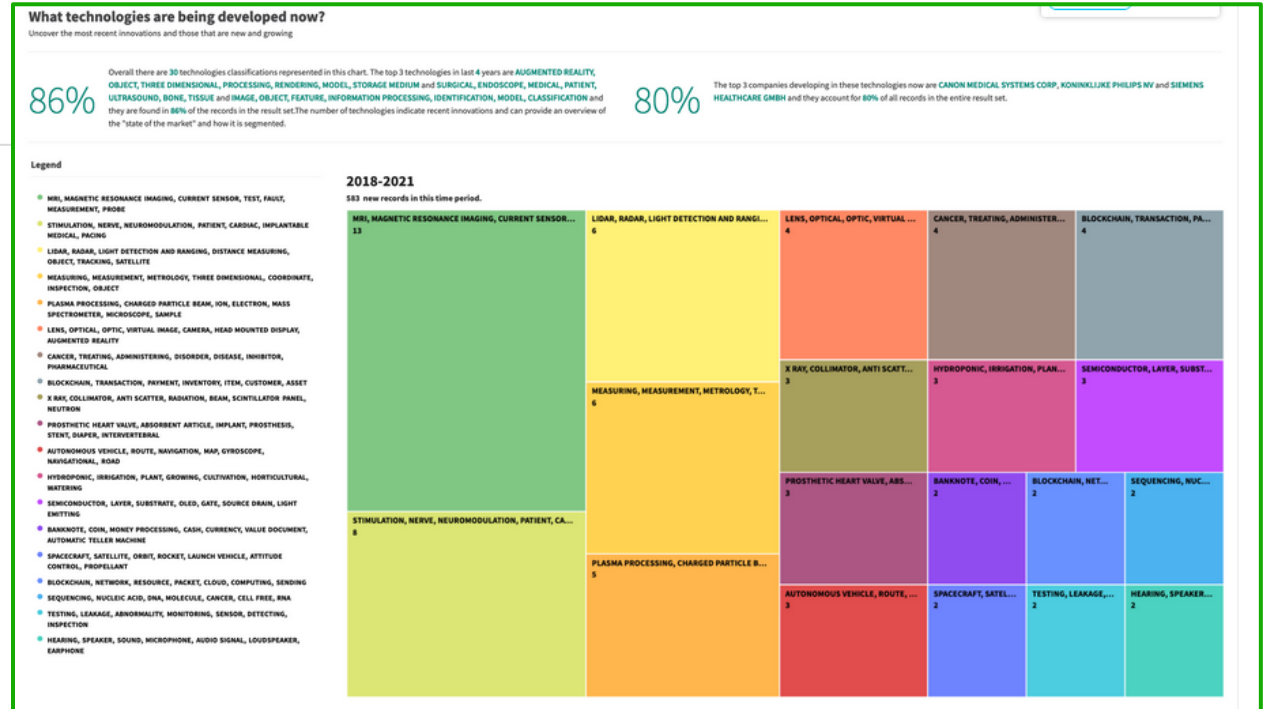
**Where is the market for these inventions?**  
21% 21% of worldwide filings in these results are granted, which indicates protection for active (Alive) patents in the relevant markets.

**What technologies are being developed now?**  
37% The top 3 technologies in the last 3 years are found in 37% of the records in the result set.

# Statistical Image reconstruction-CT | Publications



# Statistical Image reconstruction-CT | Patents





# Vă mulțumesc

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Solutions Consultant

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[www.clarivate.com](http://www.clarivate.com)

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