Discover how Derwent Innovations Index helps researchers find inventions easily

User guide

March 2022

Why researchers should care about patents

- Along with journals and conference proceedings, patents are a major component of the world's published scientific literature.
- Up to 80% of technical knowledge can only be found in patent documents (because industrials tend to disclose their innovations only in patent applications)

BUT…

- Patents are by nature very technical documents that can be difficult to read for patent non-experts

Why Derwent Innovations Index in Web of Science

- The Derwent Innovations Index (DII) is designed for use by the patent non-experts
- It is a resource providing easy search and discovery of patent content
- Clarivate-Derwent experts distill the contents of the patent, adding descriptive titles and structured abstracts, presented in a well-organized overview
- Derwent Innovations Index translates the key aspects of non-English language patents to ensure that you don’t miss those important discoveries which sets us apart from other databases.

Derwent Innovations Index

- Coverage and benefits
- Searching
- Using specialist indexing
- Analyzing results
- Tracking citations
- Searching all databases

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DII Coverage

Derwent Innovations Index combines unique value-added patent information indexed from over 50 patent issuing authorities in the **Derwent World Patent Index**, with patent citations indexed from the **Derwent Patents Citation Index**.

For full details on the coverage see here:-

https://clarivate.com/products/dwpi-reference-center/dwpi-coverage/

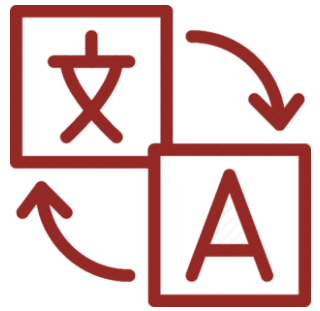
- 101M **Patents** (88K+ added per week)
- 51M+ **Inventions**
- From 61 sources, including 59 patent-issuing authorities and 2 literature sources
- From 1963 to present
- Combines three sources:
  - Derwent World Patents Index (DWPI)
  - Derwent Patents Citation Index (DPCI)
  - Derwent Chemical Patents Index (DCPI)
- Updated every 3-5 days

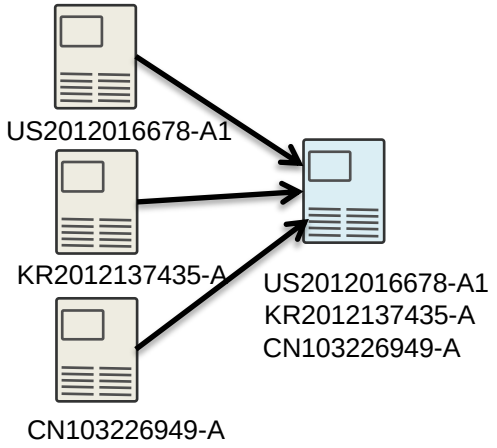
DII Benefits

900+ patent editors
write abstracts based on their technical domain expertise

Derwent Innovations Index enhances searchability and discoverability of patent data by adding valuable metadata to the patent record:

- Descriptive title: concise titles that describe the invention and its novelty
- Abstract: 250-500 words description in English about the claims and novelty of the invention
- Patent family: applications for the same invention in countries around the world are linked together in one record
- Derwent Class Codes: allows user to quickly retrieve a category of inventions
- Derwent Manual Codes: indicates the novel technical aspects of the invention, and also its applications



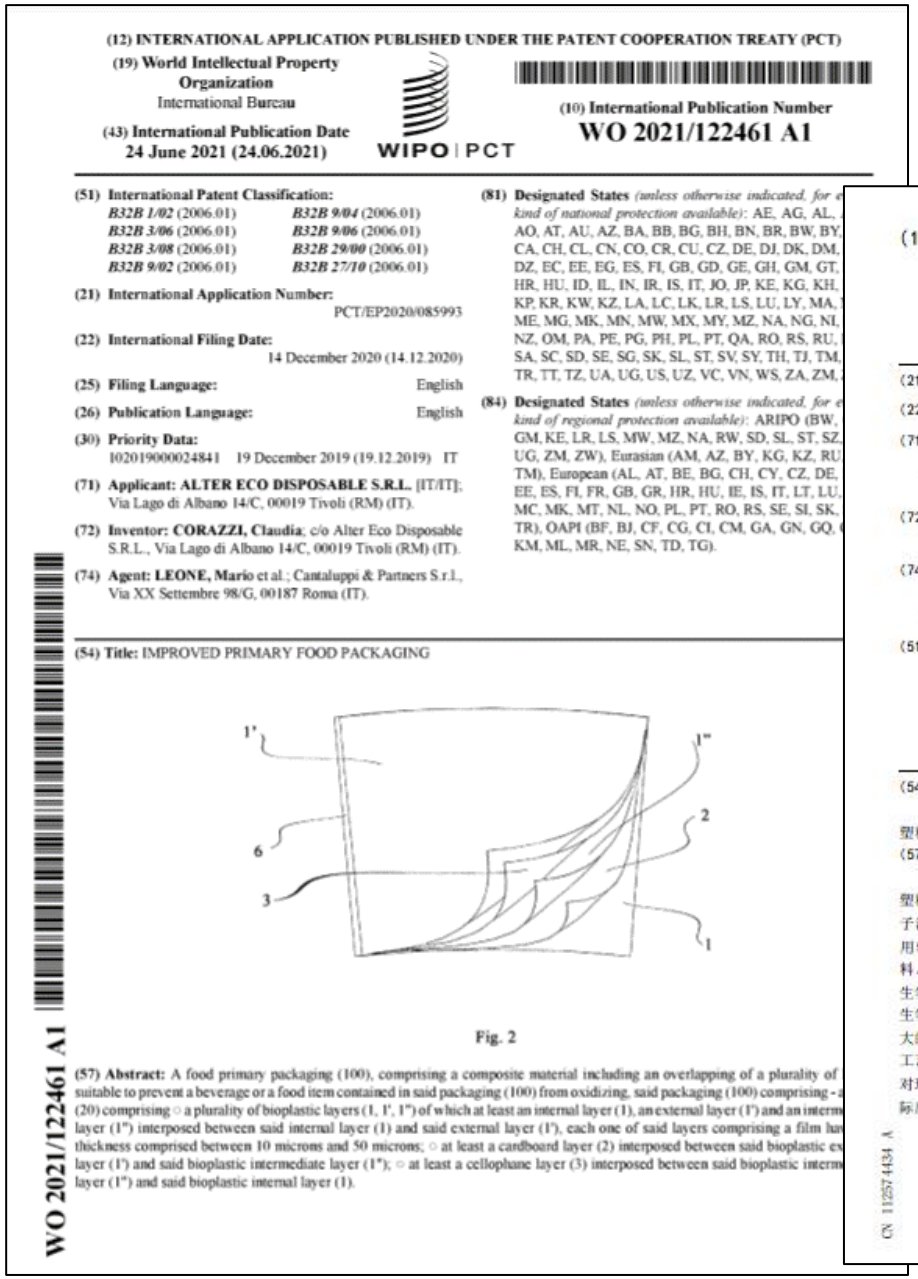


A Typical Patent

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.



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(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
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(10) International Publication Number
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(74) Agent: **LEONE, Mario** et al.; Cantaluppi & Partners S.r.l., Via XX Settembre 98/G, 00187 Roma (IT).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM,

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, KM, ML, MR, NE, SN, TD, TG).

(54) Title: IMPROVED PRIMARY FOOD PACKAGING

Fig. 2

(57) Abstract: A food primary packaging (100), comprising a composite material including an overlapping of a plurality of suitable to prevent a beverage or a food item contained in said packaging (100) from oxidizing, said packaging (100) comprising - (20) comprising ○ a plurality of bioplastic layers (1, 1', 1") of which at least an internal layer (1), an external layer (1') and an interm layer (1") interposed between said internal layer (1) and said external layer (1'), each one of said layers comprising a film ha thickness comprised between 10 microns and 50 microns; ○ at least a cardboard layer (2) interposed between said bioplastic ex layer (1') and said bioplastic intermediate layer (1"); ○ at least a cellophane layer (3) interposed between said bioplastic interm layer (1") and said bioplastic internal layer (1).

WO 2021/122461 A1

(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 112574434 A
(43)申请公布日 2021.03.30

(21)申请号 201910945445.X

(22)申请日 2019.09.30

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(74)专利代理机构 武汉科皓知识产权代理事务所(特殊普通合伙) 42222
代理人 吴楚

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C08J 9/36(2006.01)
C08K 3/04(2006.01)
C08L 1/02(2006.01)
C08L 5/08(2006.01)

权利要求书1页 说明书6页 附图3页

(54)发明名称

一种快速连续制备高韧性天然高分子生物塑料的方法

(57)摘要

本发明公开了一种高韧性天然高分子生物塑料的快速连续化制备方法，首先利用天然高分子溶液，制备得到天然高分子凝胶材料，然后利用辊对辊热压处理上述凝胶，得到相应生物塑料，这种加工方法实现了非热塑性的天然高分子生物塑料的连续化和快速化生产，并且所制备的生物塑料内分子链发生取向，沿平面内排列，极大的提升了塑料的韧性，这种新的加工方法不仅工艺绿色环保、成本低，而且产品性能优异，它是对现有技术的重大突破，适合于工业化生产及实际应用，具有广阔的应用前景。

CN 112574434 A

Clarivate™

The DII Equivalent

Our editorial team use the original patent to create a record in DII. This will have:

- 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

Method for rapidly and continuously preparing high-toughness natural polymer bioplastics used in textiles, involves using natural polymer material solution to prepare natural polymer gel material, subjecting to roll-to-roll hot pressing

Chemical Information

Patent Number: CN112574434-A

Inventors: CAI J; HU L; XU D; ZHONG Y; WEI P; ZHANG L

Patent Assignee:
UNIV WUHAN(UYWU-C)

Derwent Primary Accession Number: 2021-37425G

Abstract:
NOVELTY - A method for rapidly and continuously preparing high-toughness natural polymer bioplastics, involves step (1) using a natural polymer material solution to prepare a natural polymer gel material, step (2), subjecting the obtained natural polymer gel material to rapid and continuous roll-to-roll hot pressing, preferably orienting the molecular chains in the plane and drying to form a strong hydrogen bond.
Expand to show full abstract

Technology Focus:
TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Components: The regeneration liquid used in step (1) regeneration includes water, water added with cations, and non-polar organic liquid with a water content of more than 50 wt.%.
TECHNOLOGY FOCUS - POLYMERS - Preferred Components: The natural polymer material in step (1) includes cellulose, chitin, chitosan, and the obtained natural polymer gel
Expand to show full technology focus

Documentation Abstract: CN112574434(A)
Images: 5 (click to view)

International Patent Classification: C08J-003/00 Processes of treating or compounding macromolecular substances [2]; C08J-003/075 Macromolecular gels [6]; C08J-003/09 in organic liquids [5]; C08J-003/24 Crosslinking, e.g. vulcanising, of macromolecules INFO 5546 [2]; C08J-009/28 by elimination of a liquid phase from a macromolecular composition or article, e.g. drying of coagulum [2]; C08J-009/36 After-treatment INFO 5553 [2,5]; C08K-003/04 Carbon [2]; C08L-001/02 Cellulose; Modified cellulose [2]; C08L-005/08 Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof [2]

Derwent Class Code(s): A96 (Medical, dental, veterinary, cosmetic.); A11 (Polysaccharides; natural rubber; other natural polymers (only a restricted range of (modified) natural polymers are included. Thus starch would be excluded, but chemically modified starch included).); A21 (Epoxides; aminoplasts; phenoplasts.); A35 (Other processing and general - including vulcanisation, welding of plastics and adhesive processes. Testing.); A88 (Mechanical engineering and tools e.g. valves, gears and conveyor belts.); A92 (Packaging and containers - including ropes and nets.)

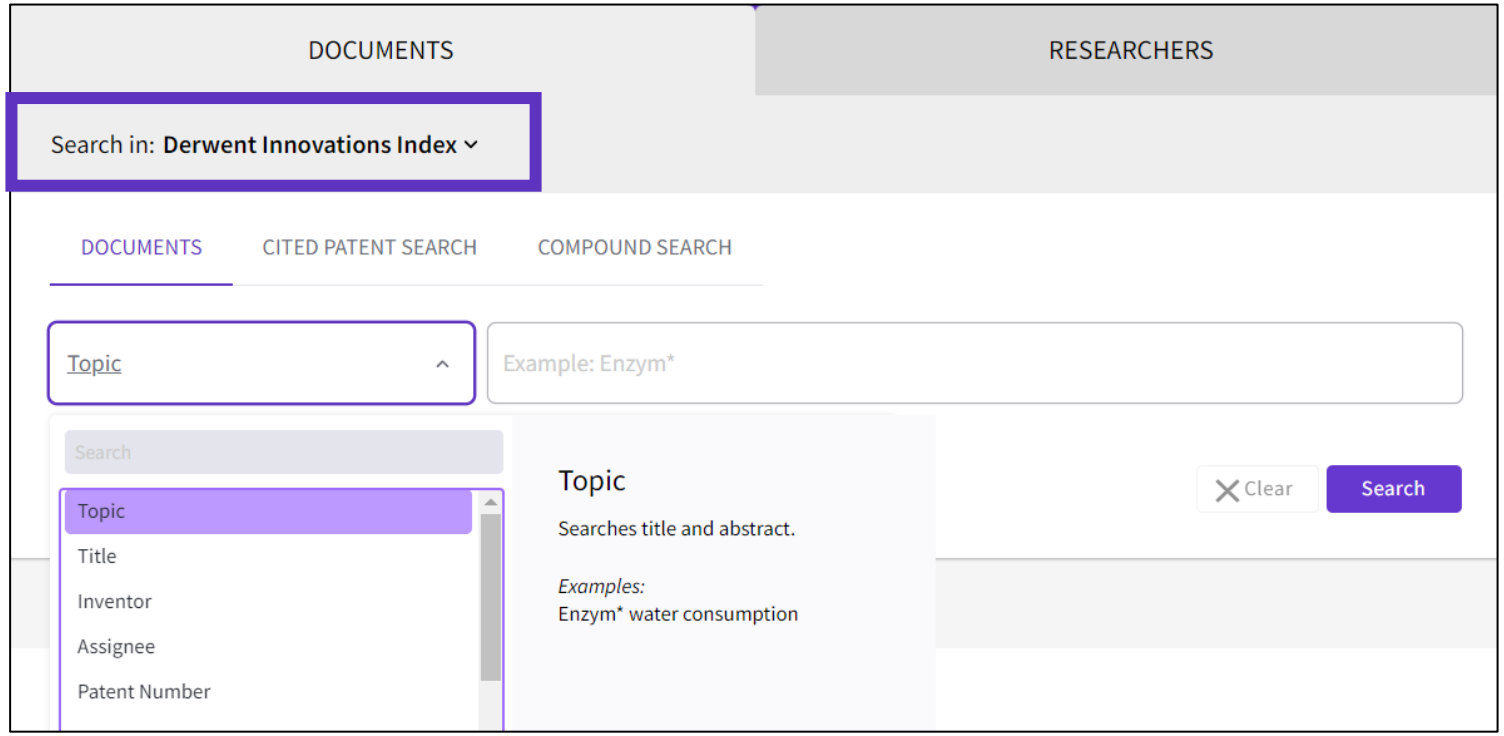
Derwent Manual Code(s): A03-C02 NATURAL RESINS OR GUMS, ROSIN (ABIETIC ACID), LIGNIN; A11-B02 ANNEALING, CRYSTALLISING, HEAT-SETTING, ORIENTING, DRAWING, FIBRILLATING; A11-B09A2 LAMINATING; LAY-UP OF REINFORCED PLASTICS INVOLVING NON-FIBROUS MATERIAL; A11-C02 CROSSLINKING, CURING, VULCANISATION; D04-A01P2 PHYSICAL METHOD; J04-E03 CATALYST SUPPORTS; J04-E11 CATALYST PRODUCTION

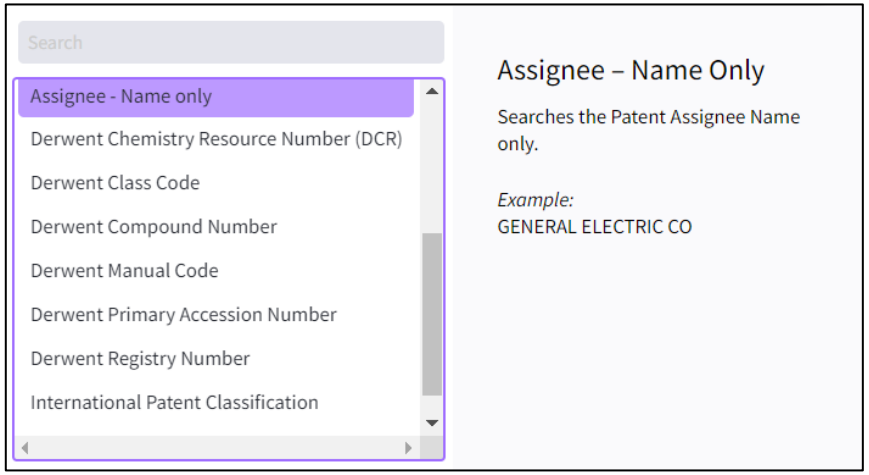
Derwent Innovations Index

- Coverage and benefits
- Searching
- Using specialist indexing
- Analyzing results
- Tracking citations
- Searching all databases

Searching

The search engine in Derwent Innovations Index (DII) is not the same as the one in Web of Science.





Searching fields are different because the indexation of patents is specific to DII

Searching Limitations

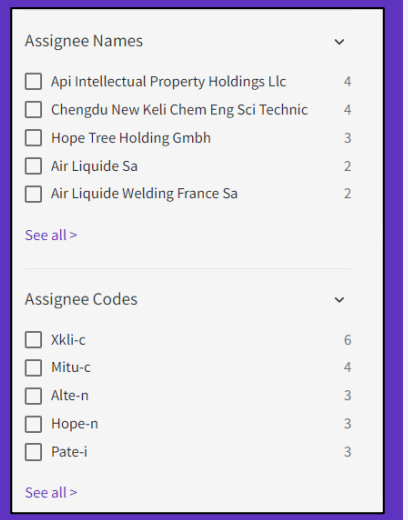
The search engine in Derwent Innovations Index (DII) is not the same as the one in Web of Science.

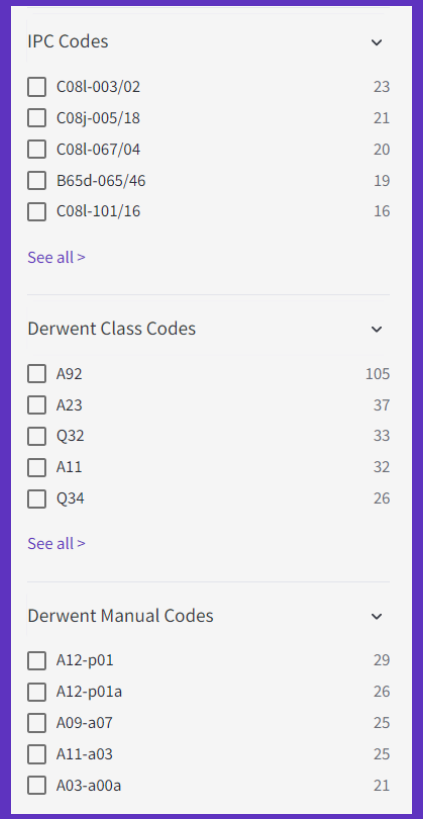
The main difference are shown opposite.

- You cannot use left-hand truncation in a search query including Topic and Title searches.
- You cannot use stopwords in a search query including Topic and Title searches. A search for Vitamin D will also find Vitamin A, Vitamin B, Vitamin C, and so on (unless you write it within quotation marks “vitamin d”
- You cannot create search queries using the NEAR/n operator. For example, battery NEAR/15 lithium is not a valid search.
- The Lemmatization feature is not available in the current version of the Derwent Innovations Index.
- The Derwent Innovations Index is integrated with the All Databases function, and therefore, searchable when you search the All Databases function.
- The following indexes are only available in the Chemical version of DII:
  - Ring Index Number
  - Derwent Compound Number
  - Derwent Registry Number
  - DCR Number

Results List

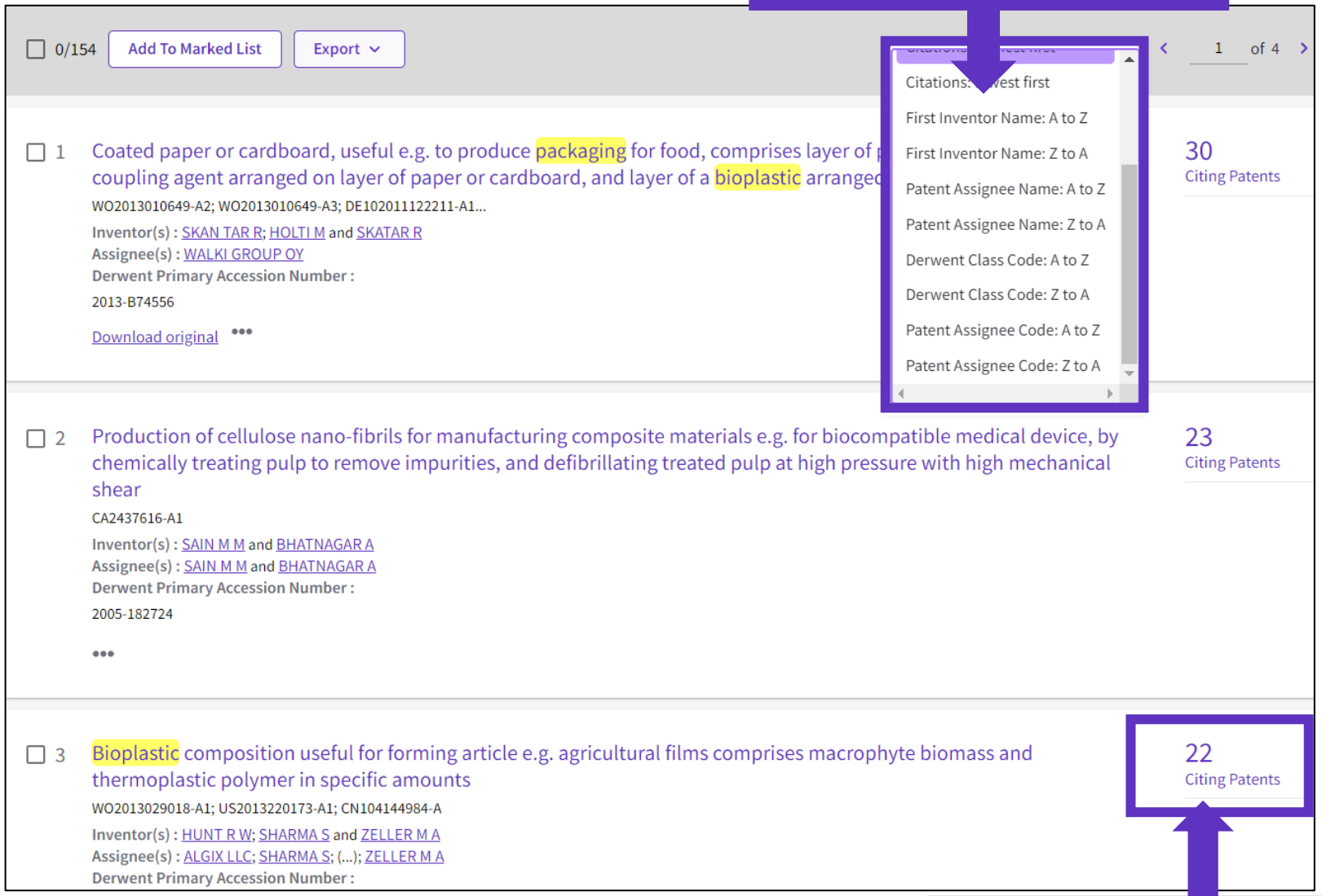
The search **Results List** is similar to Web of Science but there are a few differences.





Filters specific to DII

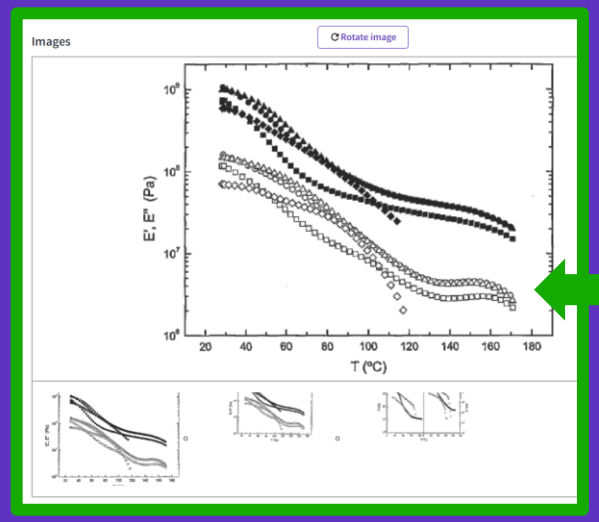
Sort options specific to DII



Links to Citing Patents.

Record View

The **Record View** is similar to Web of Science but there are a few special features in DII.



Preparation of bioplastic material from a protein matrix and plasticizer, useful for making biodegradable packaging, films and adhesives

Patent Family | Chemical Information

Inventors: JEREZ GOMEZ A; PARTAL LOPEZ P; MARTINEZ GARCIA I; GALLEGOS MONTES C; GUERRERO CONEJO A

Patent Assignee:
UNIV HUELVA(UYHU-Non-standard)

Unique organisation code.

Derwent Primary Accession Number: 2007-092424

Abstract:
NOVELTY - Method for preparing a bioplastic material (A) from a protein matrix (PM) and a plasticizer (I) comprises mixing PM and (I), then molding and compressing the mixture at suitable temperature and pressure.
USE - (A) is used to prepare biodegradable plastics for packaging; in preparation of films and adhesives, or to make plastic articles for general use.
Expand to show full abstract

Technology Focus:
TECHNOLOGY FOCUS - BIOLOGY - Preferred Materials: PM is of plant or animal origin, preferably gliadin or glutenin from wheat and/or egg proteins (from white or yolk) but also rice and/or potato proteins. (I) is one or more of water; glycerol; sorbitol; propylene glycol; sucrose; poly(ethylene glycol); fatty acids and monoglycerides. Preferred Process: PM and (I) are mixed in a discontinuous mixer operated at 5-500 rpm and10-200degreesC, preferably under adiabatic conditions. Molding is at 10-200, particularly 25-140, degreesC and 0-500,
Expand to show full technology focus

Extension Abstract:
EXAMPLE - Egg white proteins (66%) and glycerol (33%) were blended at 25degreesC for 10 minutes, in a rheometer at 50 rpm, to form a homogeneous mixture which was recovered, subdivided and cooled. It was then compressed in a stainless steel mold (3 by 10 by 50 mm), covered with aluminum foil, for 10 minutes, at 120degreesC and various pressures. The product had elasticity modulus, at constant traction of 20 mm/minute, of 650.1 N/mm2 when molded at 0 bar and 887.8 N/mm2 at 25 bar; compare 560.5 N/mm2 for low-density
Expand to show full extension abstract

Documentation Abstract: WO2006134188(A2,A3)

Images: 3 (click to view)

International Patent Classification C08L-000/00 ; C08H-001/00 Macromolecular products derived from proteins INFO 5542

Derwent Class Code(s): A92 (Packaging and containers - including ropes and nets.); A17 (Polymers of unsubstituted aliphatic monoolefins; including polyethylene.); A25 (Polyurethanes; polyethers.); G03 (Adhesives - excluding dispensers. Polymeric adhesives are also classified in Section A (C09H, J).)

Derwent Manual Code(s) A03-C01 PROTEINACEOUS POLYMERS; ... GRADABILITY; G03-B02A NATURAL POLYMERS ADHESIVES

Links to indexed terms .

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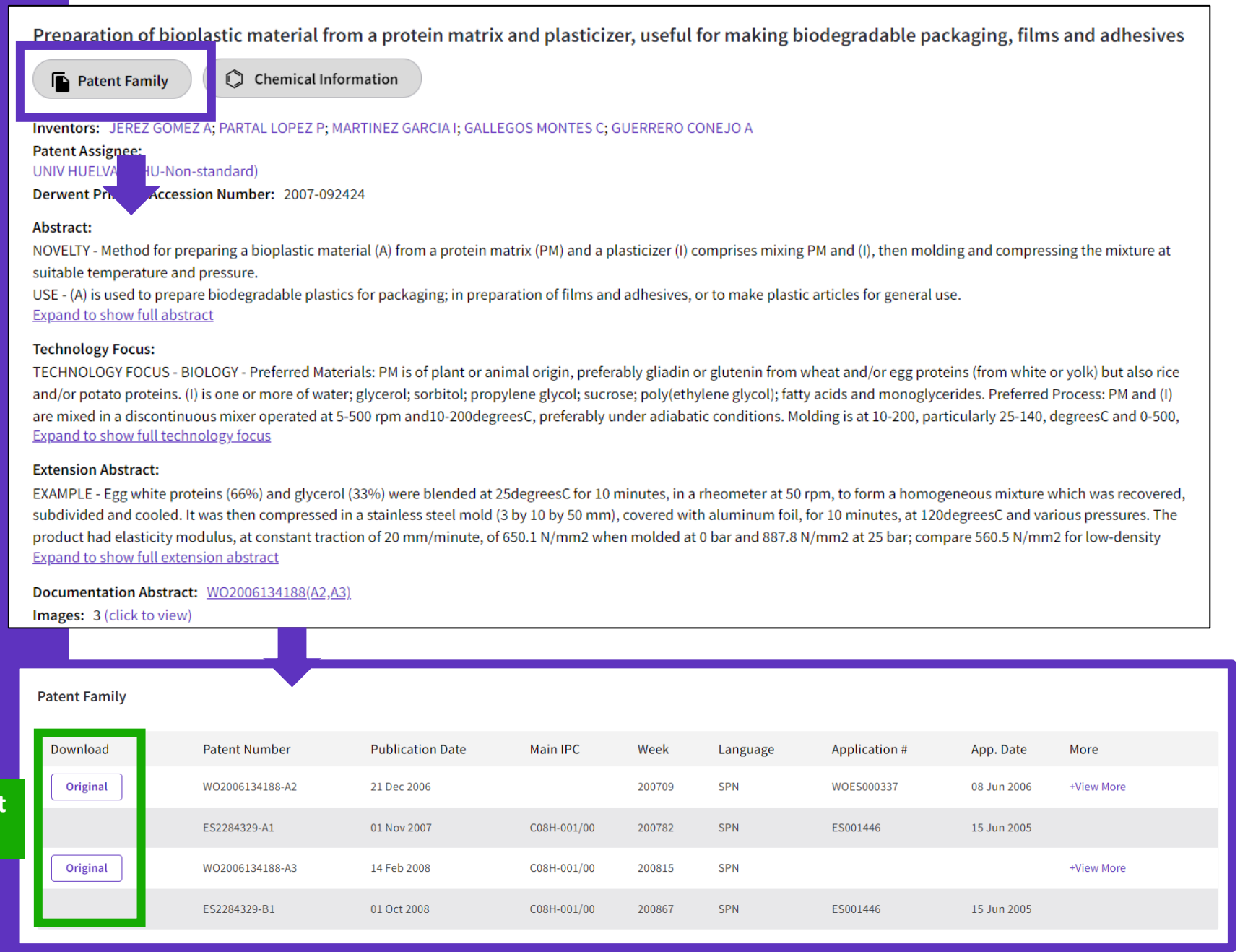
Record View

The **Record View** is similar to Web of Science but there are a few special features in DII.



Links to download the original document for EP, JP, US and WO patents only

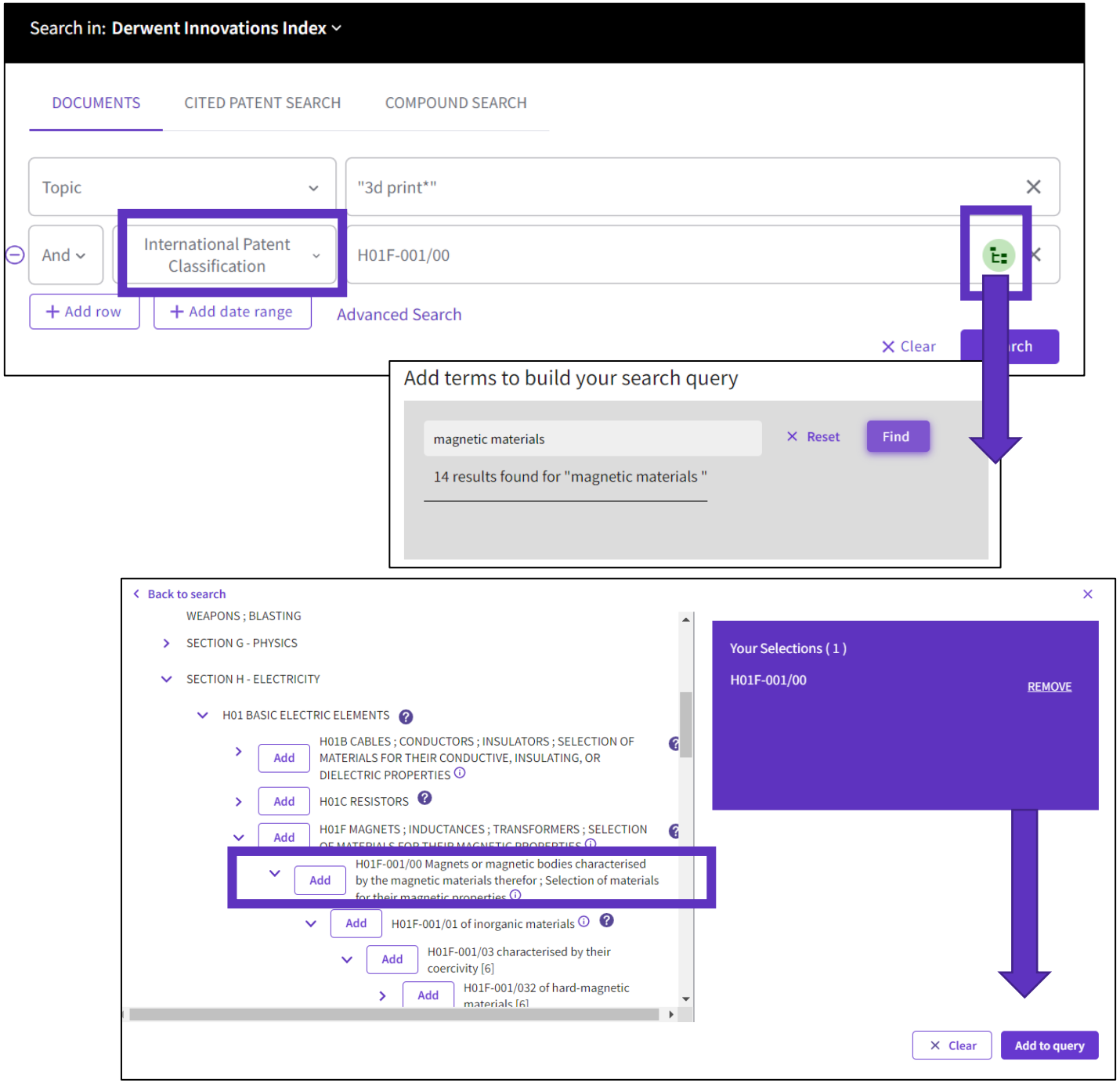
Searching

By combining a typical “**Topic**” search with a specialist index search like “**International Patent Classification**”, more precise results can be found.

The International Patent Classification (IPC) is an internationally recognized classification system that is controlled by the World Intellectual Property Organization (WIPO) and assigned to patent documents by Patent Offices.

If you need to widen the indexed search, simply remove the last 2 digits and add an “*”.

Multiple index search terms can be used in conjunction with the usual Boolean operators.



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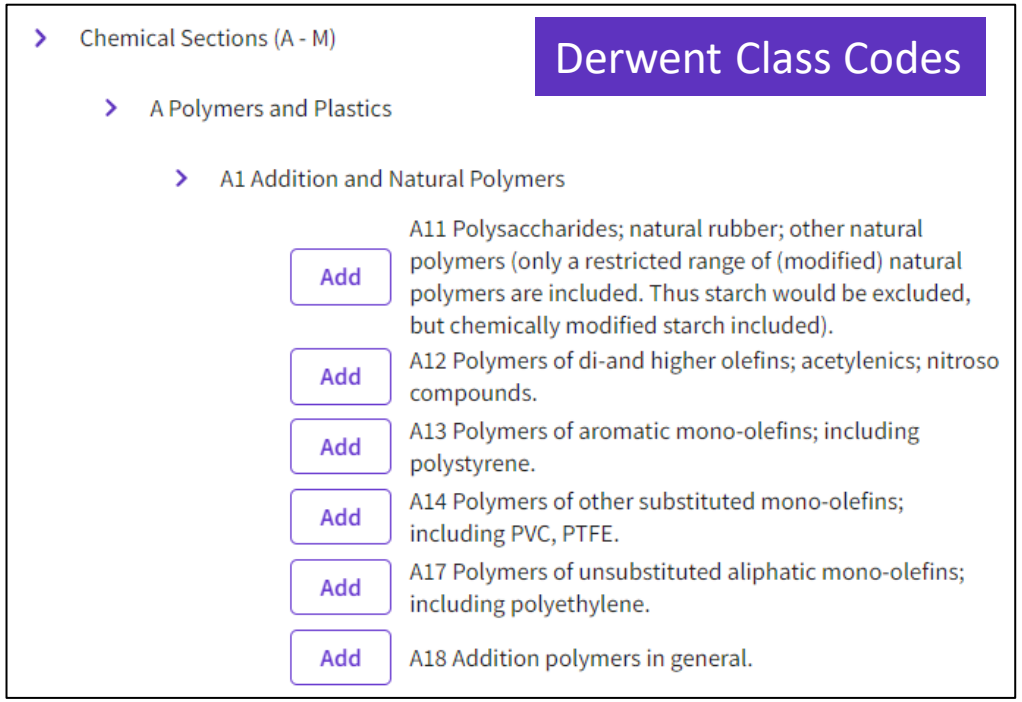
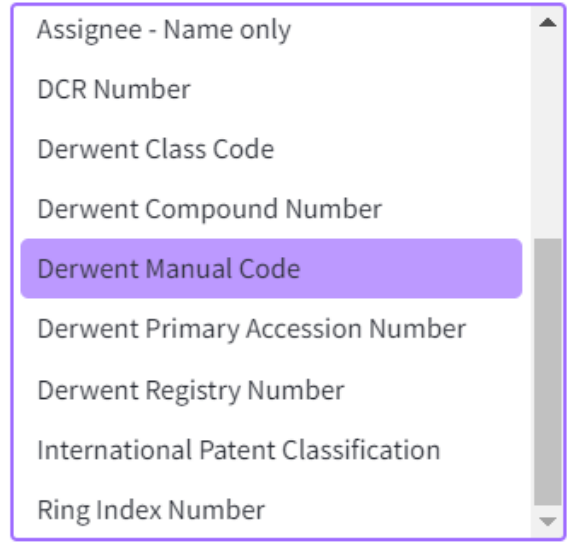
Specialist Indexing

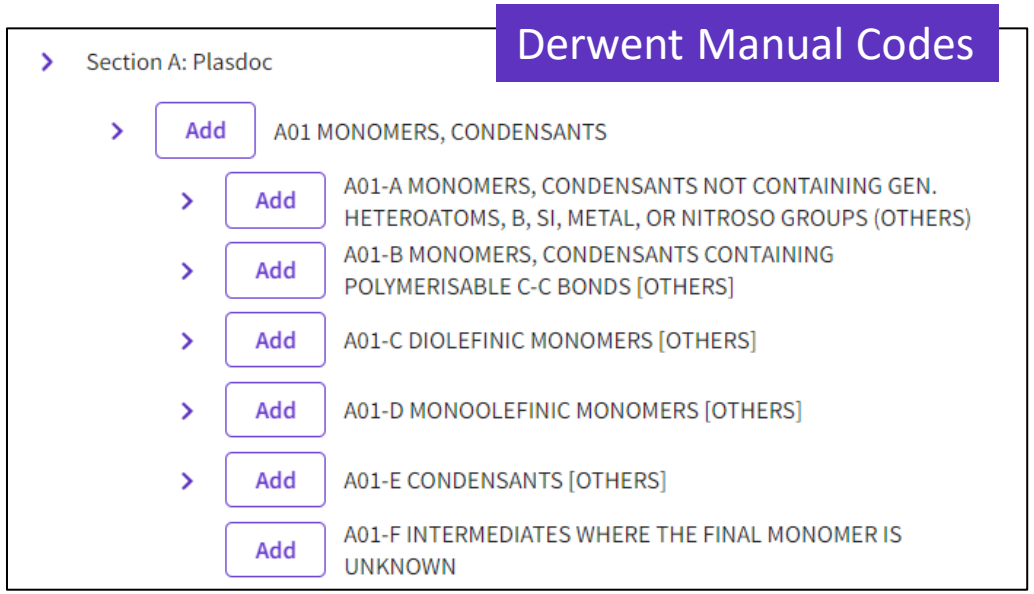
Derwent Innovations Index has several specialist indexes available for searching. Some are specific to Derwent, while others are standard patent indexes.

Derwent Class Codes: allows user to quickly retrieve a category of inventions

Derwent Manual Codes: indicates the novel technical aspects of the invention, and also its applications





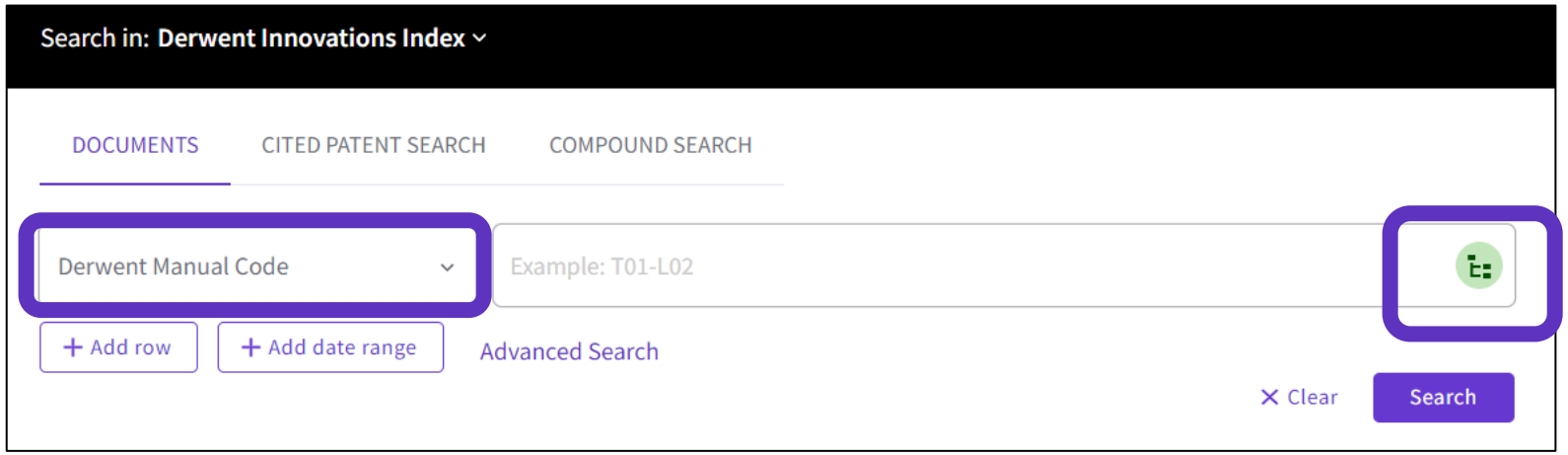


Specialist Indexing

Since the national patent offices may apply IPCs in different ways, the same invention patented in several countries can have different IPCs.

The Derwent patent family structure solves this problem by assigning the most appropriate Derwent class(es) to the basic patent record.

All other members of the family then automatically take the same class(es). The exception to this is for Engineering patents where the classes applied to the equivalent patent may be revised if the IPCs change.



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.
Manual codes are arranged in hierarchies where there is a broad or general code at the top of the hierarchy followed by subdivisions of the codes into more specific categories.

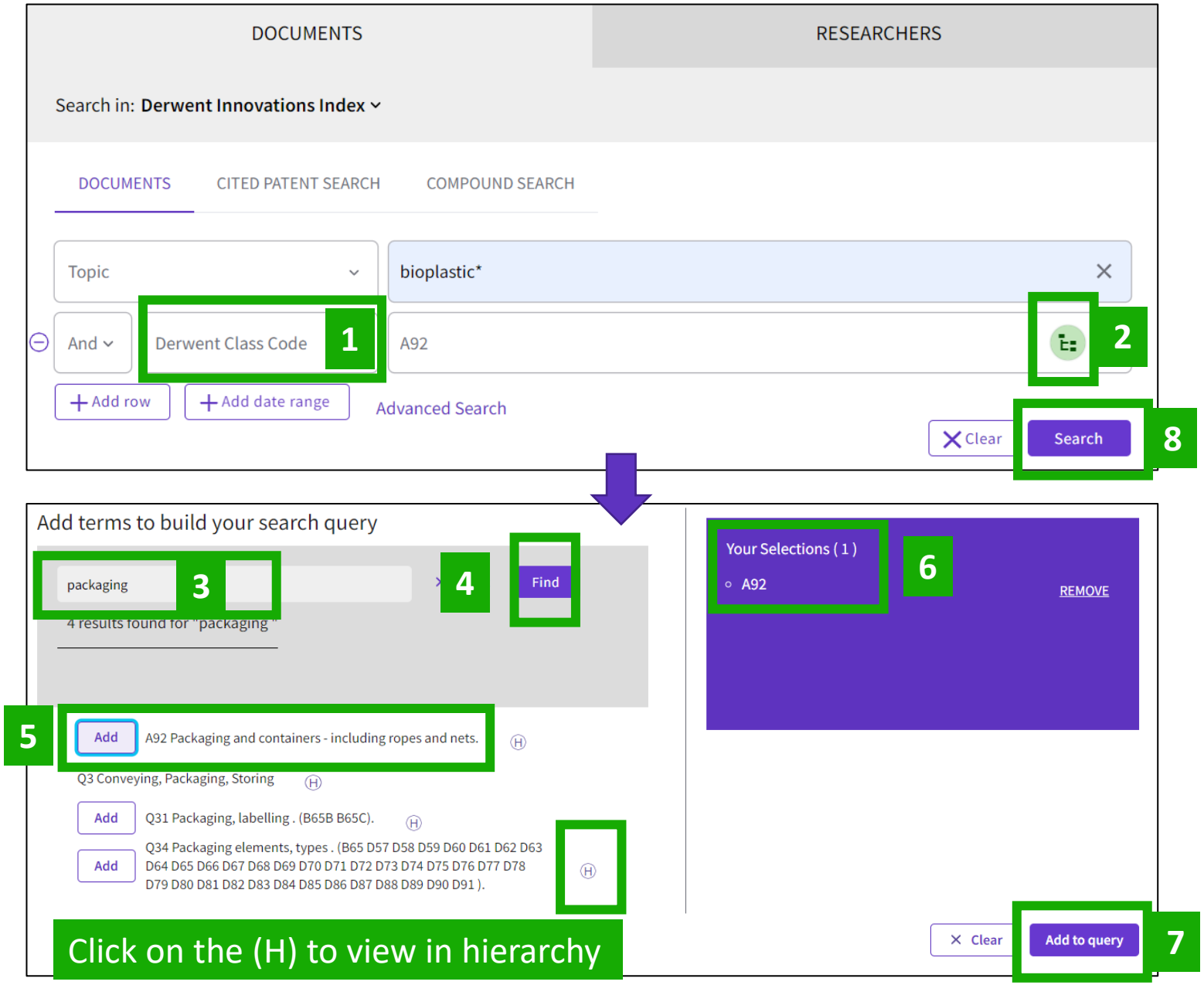
Search Tip
When performing a search using manual codes, use the asterisk (*) character. For example, searching for **J07-B** finds patents that *have not* been assigned to one of the subdivisions within the J07-B hierarchy while **J07-B*** finds those patents as well as all patents within all subdivisions in the J07-B hierarchy

Searching

By combining a typical “**Topic**” search with a specialist index search like “**Derwent Class Code**” or “Derwent Manual Code, more precise results can be found.

If you need to widen the indexed search, simply remove the last digits and add an “*”.

Multiple index search terms can be used in conjunction with the usual Boolean operators.



Searching

There are two Assignee search options.

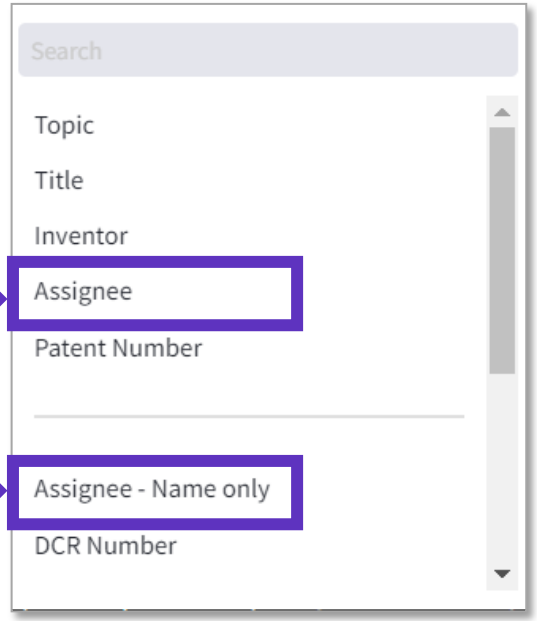
"**Assignee**" and
"**Assignee – Name Only**"

Derwent assigns a unique 4-letter code to approximately 21,000 companies (those with most patents), these codes retrieve subsidiaries and related holdings of the company. Other companies and individual patent assignees are given a non-standard 4-letter code, which is not unique. Patent codes appear as:

- ABCD-C (Standard Company)
- ABCD-I (Individual)
- ABCD-N (Non-standard)
- ABCD-R (Soviet Assignee)

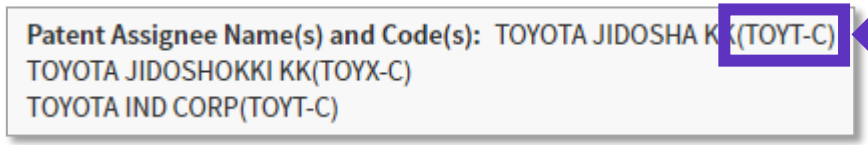
Patent Assignee Codes: enable all of a company's patents to be found even though they may have filed them under different name variations (>20k companies)

Searches the Patent Assignee Name(s) and Code(s) field within a patent record.



This search restricts your search to names found within Patent Assignee Name(s) field.

All three Assignees are part of the same company and have the same code but could be searched for individually.



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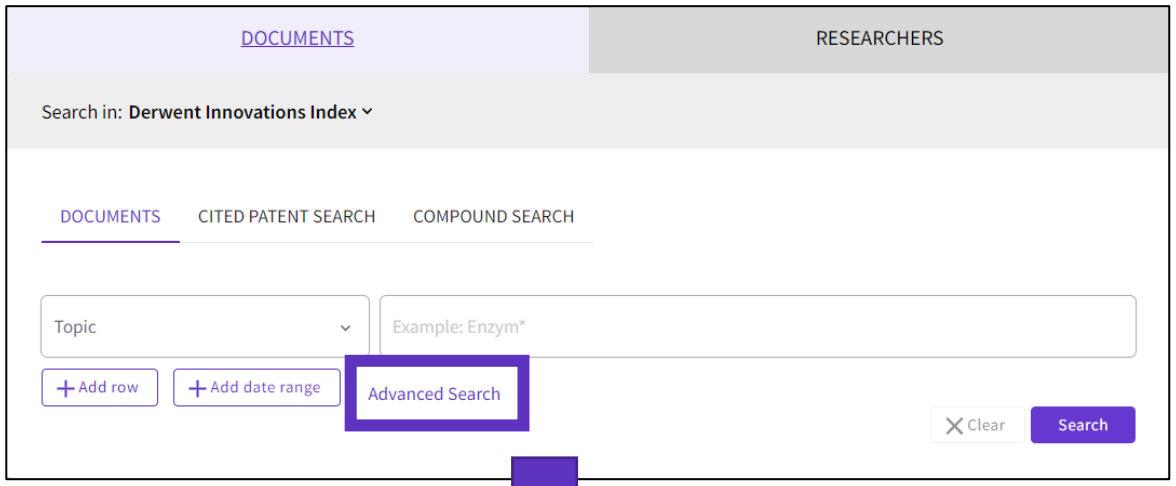
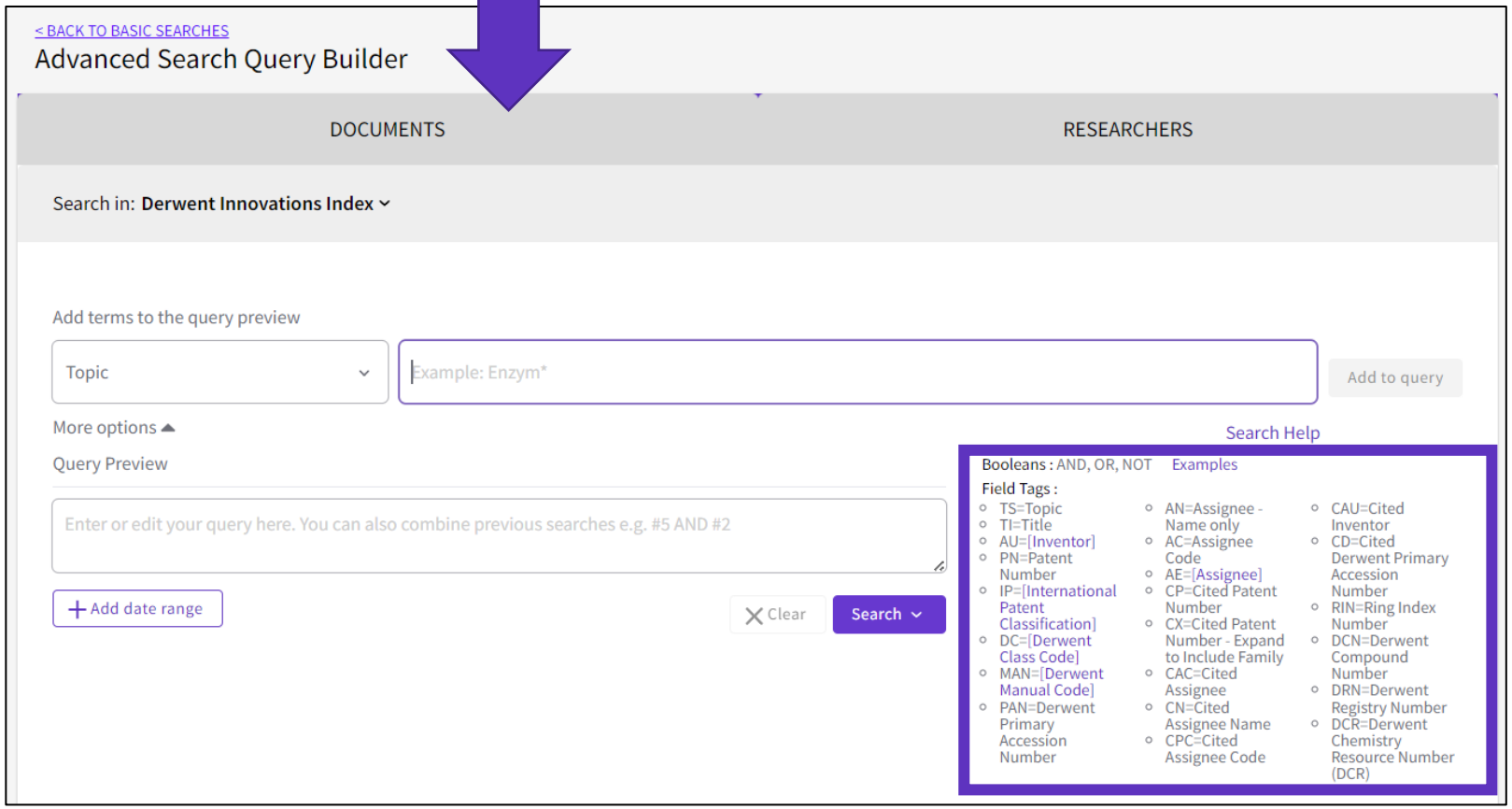
Complex queries

For complex queries, use the Advanced Search Query Builder where you will find additional field tags specific to DII





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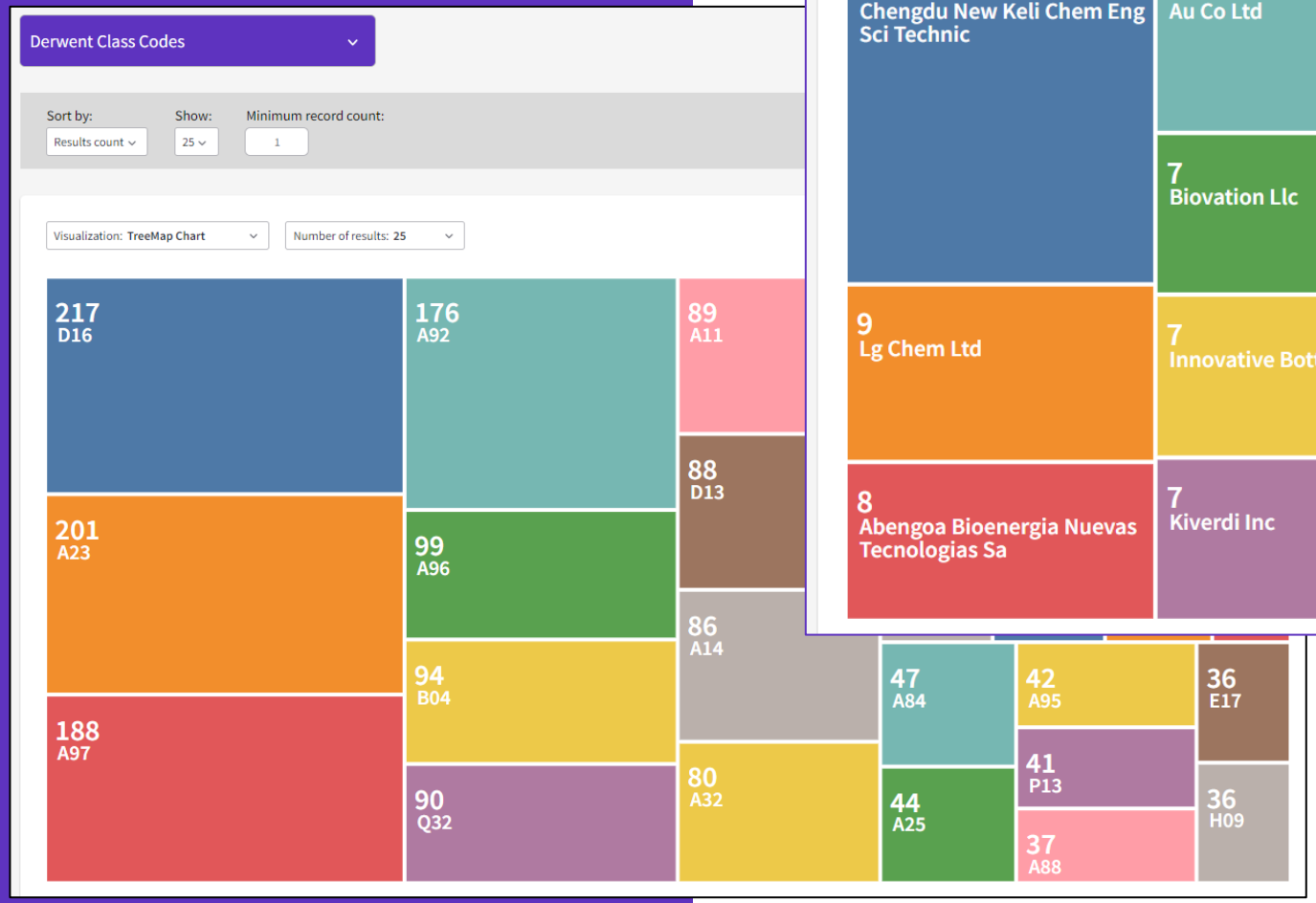
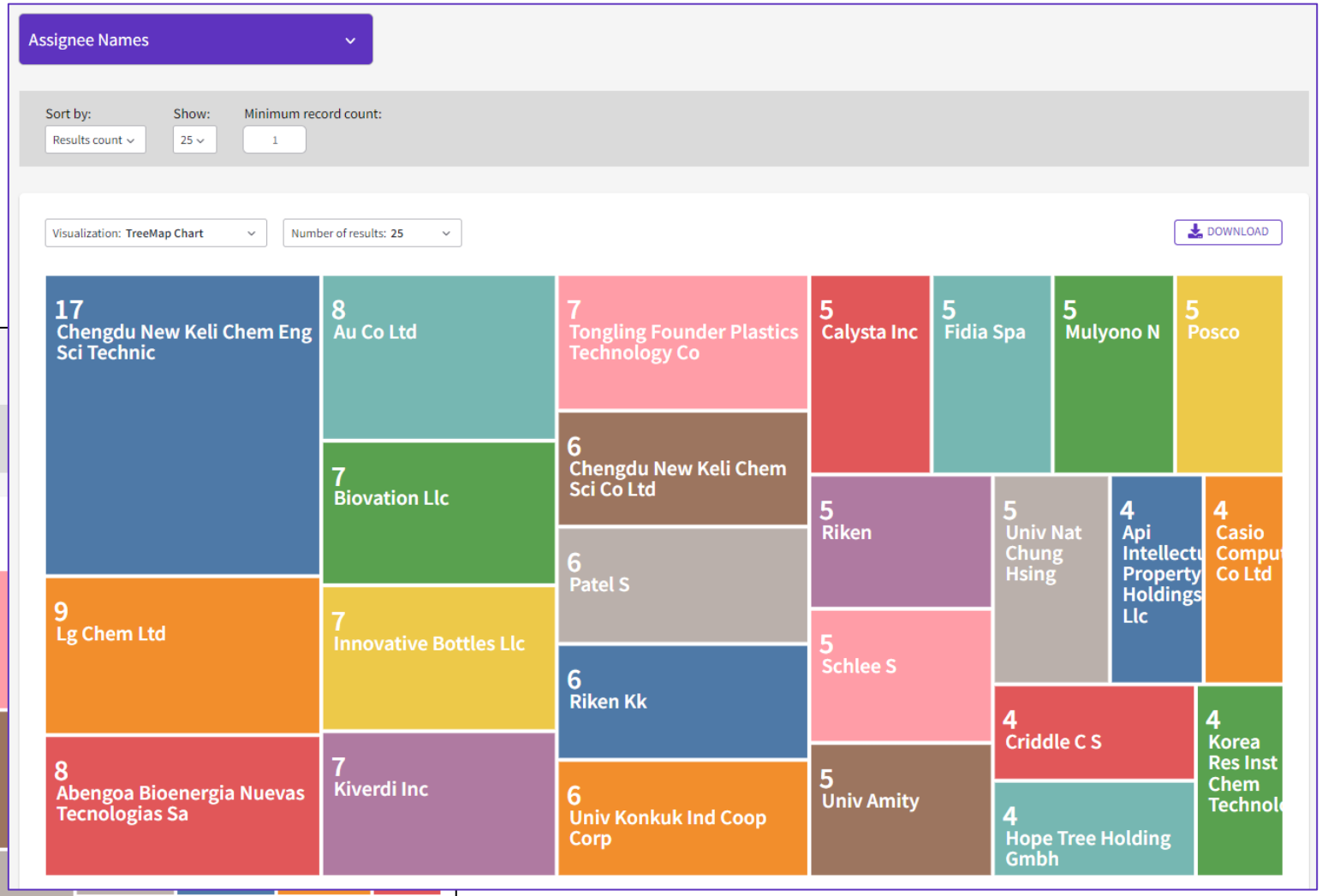
- Searching
- Using specialist indexing
- Analyzing results
- Tracking citations
- Searching all databases

Analysis

Analyze Results is available for DII, though the options for analysis are specific to DII.





DII can help you

- Find patents without specialist knowledge
- Search for English language equivalents
- Review the novelty of an invention
- Determine the extent to which an invention is covered internationally
- Identify competitors or collaborators
- Avoid or watch for patent infringements
- Research technological advances
- Find gaps in the marketplace

Derwent Innovations Index

- Coverage and benefits
- Searching
- Using specialist indexing
- Analyzing results
- Tracking citations
- Searching all databases

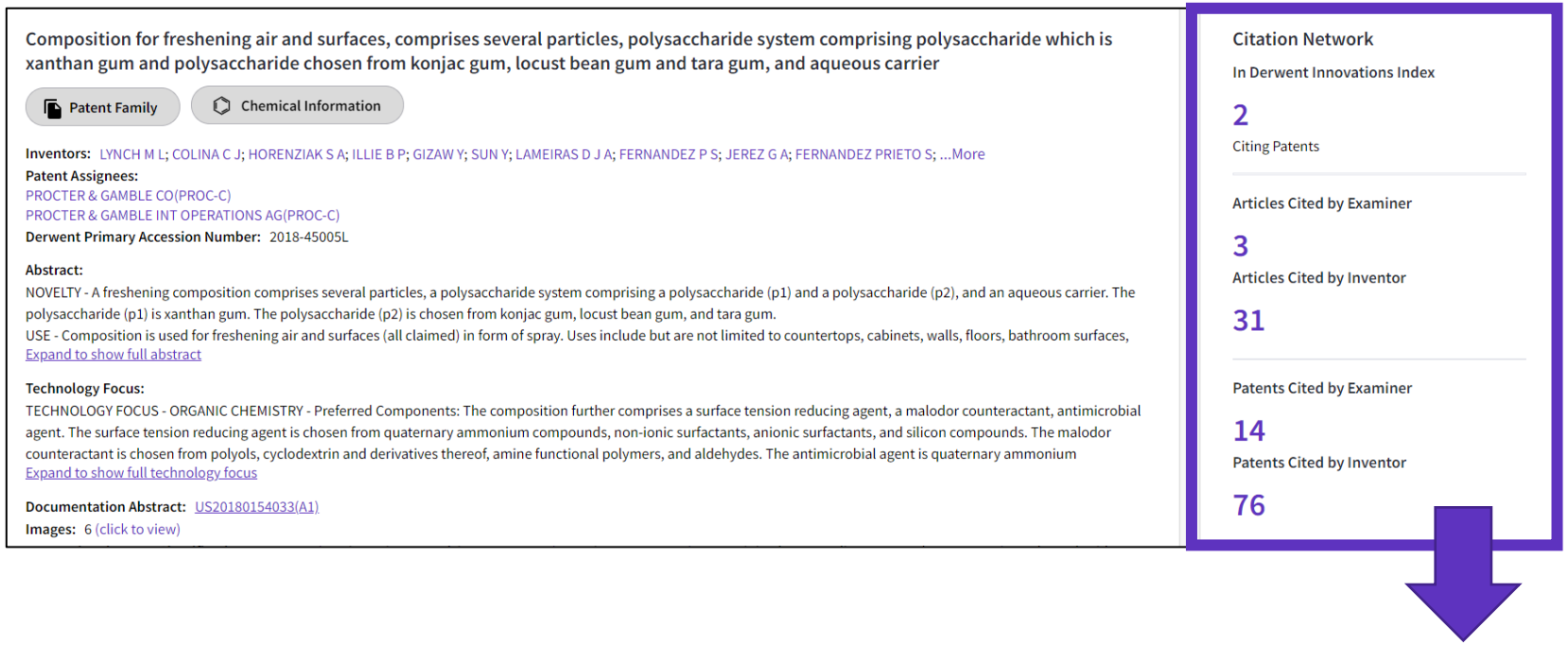
Citations

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

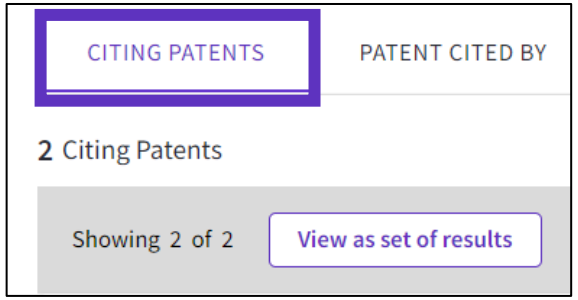
Where these items are in the Web of Science, links are provided to the records.



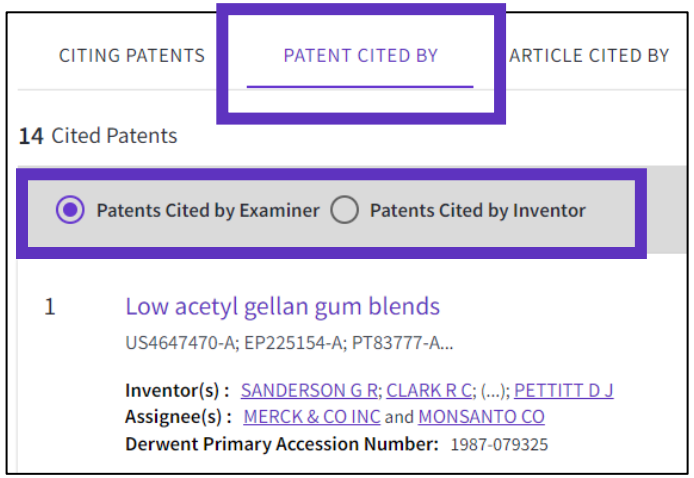
The new Web of Science resolves > 50% more citations from patents to articles so there are more links available from patents on Derwent Innovation Index to the Web of Science Core Collection.

Citations

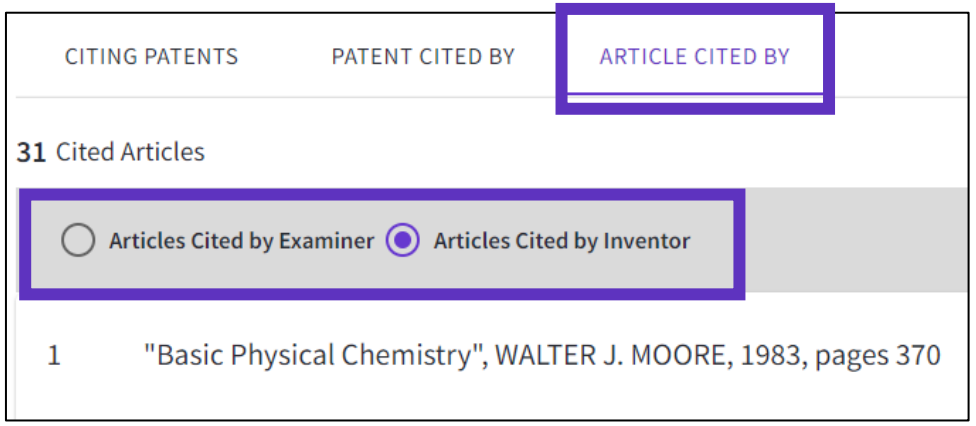
- Citations reflect the influence on other innovators of each patented idea
- DII automatically removes double, triple (or more) counting of citation events between the same patented ideas
- Clarivate normalizes patent citations compiled by patent examiners and uses this indicator as part of the methodology to determine the list of Top 100 Global Innovators (normalization for variation by technology sector and differences that occur by geography or language)



Displays the number of patent family records whose members have cited members of the current patent family. A zero means that no patents covered in the current database cite members of this patent family.



Displays the number of patents cited by the inventor / examiner. A zero means there are no patent references or the references were not keyed into the database.



Displays the number of articles (non-patent items) cited by the inventor / examiner. A zero means the patent has no article references or the references were not keyed into the database.

Clarivate™

Cited Patent Search - DII

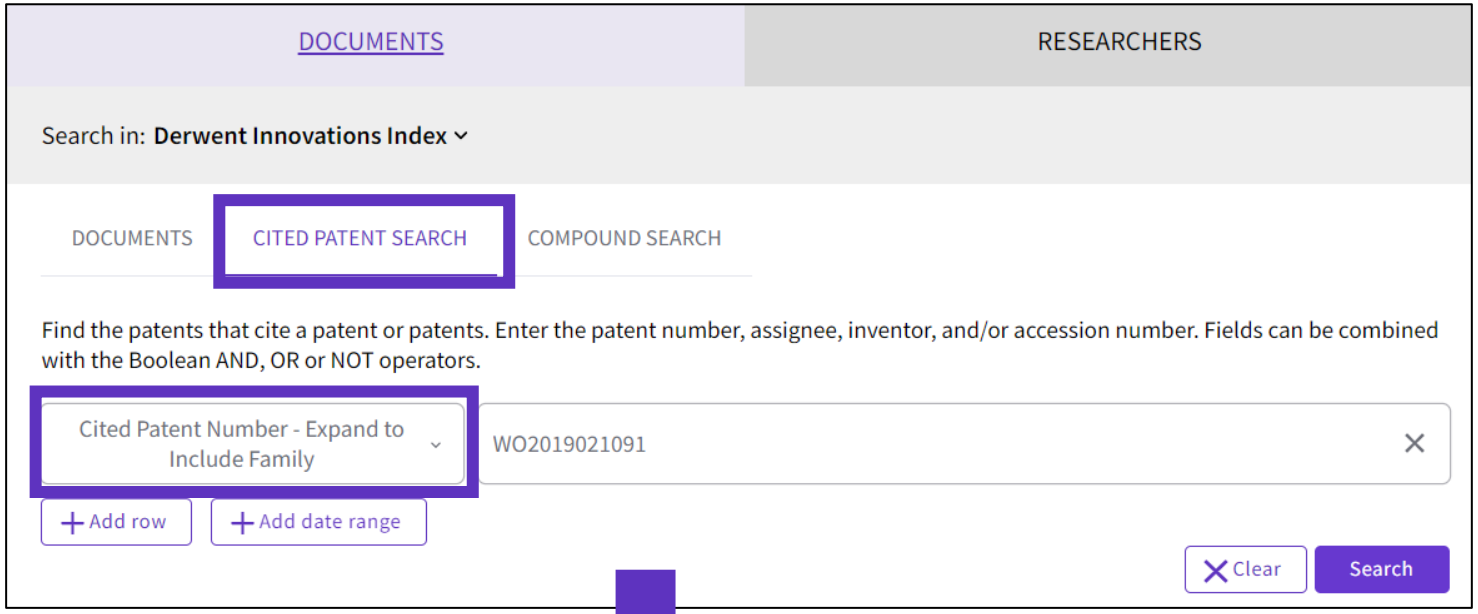
There is a **Cited Patent Search** option in **DII**, similar to the **Cited Reference** in **Web of Science**.

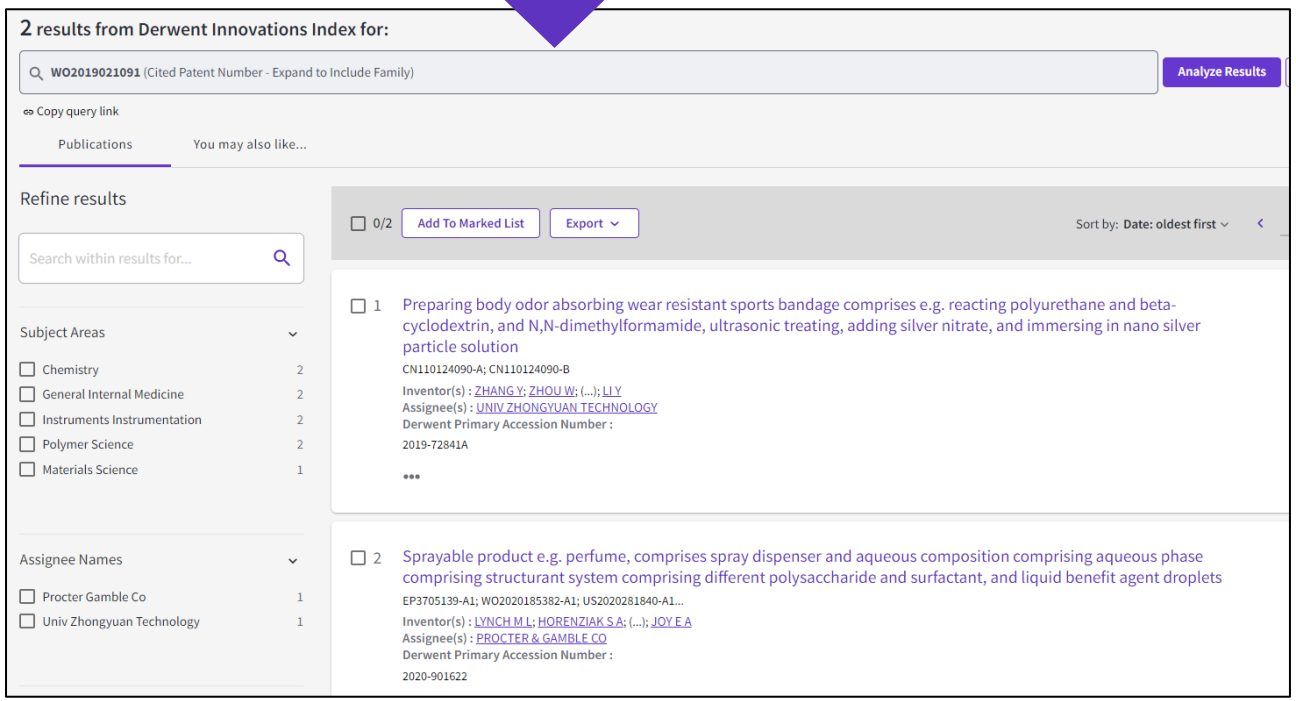
However, it does not include an intermediary selection screen before showing the results list.

Cited Patent Number - Expand to Include Family

Expand your search to include all patent numbers found within a patent family by selecting this field. You must enter a unique patent number when using the Expand Family option.

Examples:
EP178925
EP178925-A





Derwent Innovations Index

- Coverage and benefits
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- Analyzing results
- Tracking citations
- Searching all databases

All Databases 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.

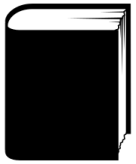
The team works to publish **journal articles** that will share their findings more widely.

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.

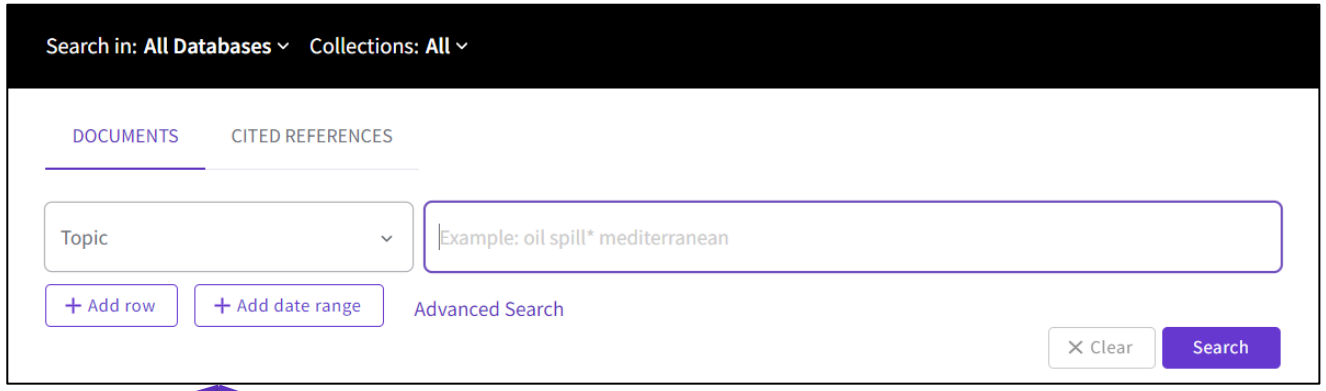
The team files **patent** applications to protect new discoveries.



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

All Databases Search

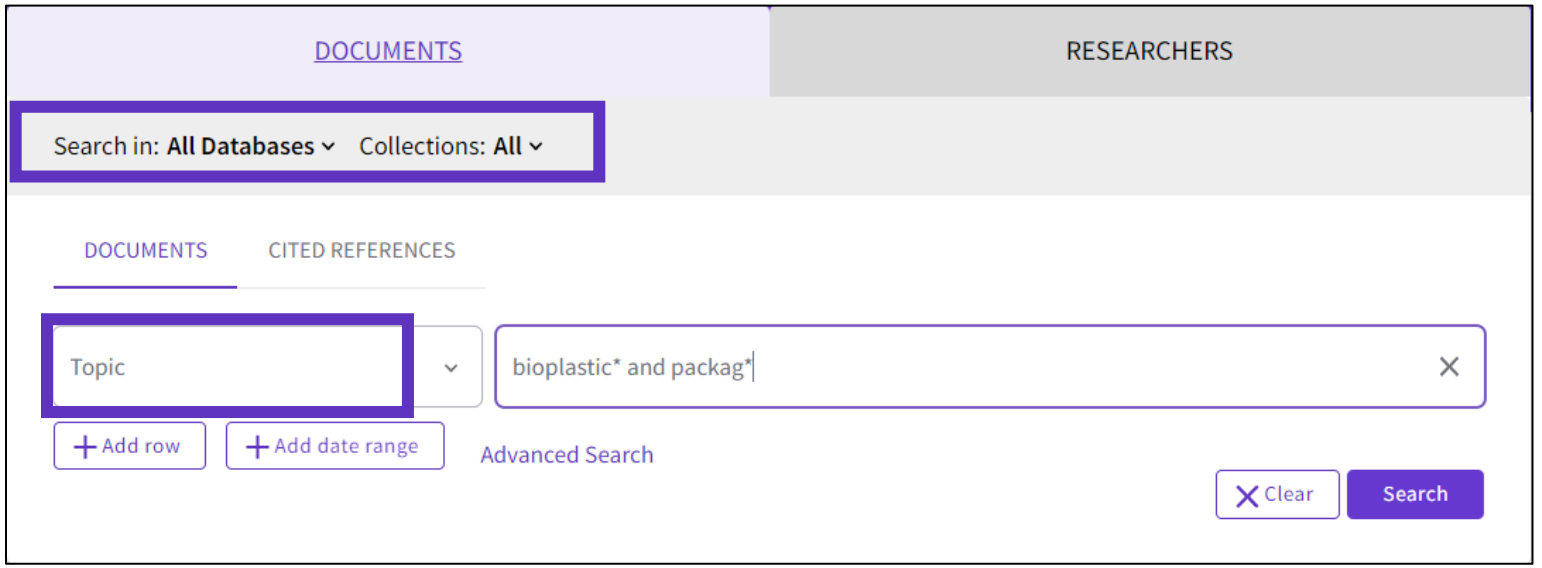
Specialist Indexing is searched in addition to the usual fields

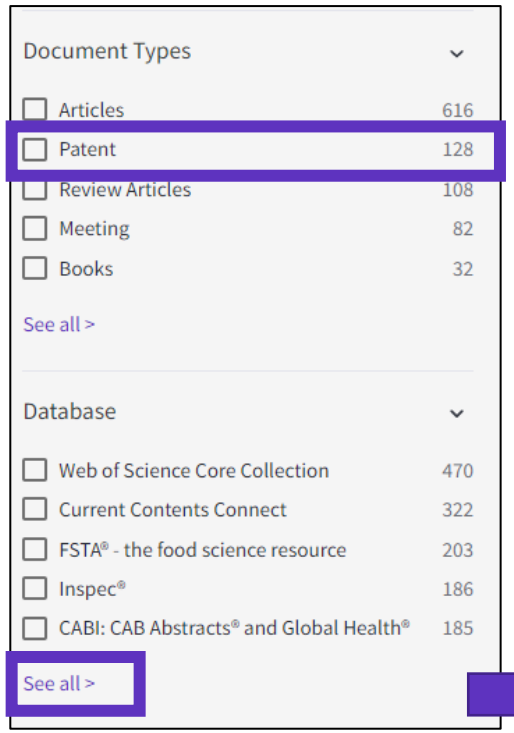


Web of Science Core collection Title, Abstract, Author Keywords, KeyWords Plus®	**BIOSIS Citation Index Biological Abstracts** Title, Abstract Major Concepts, Concept Code(s) Taxonomic Data, Disease Data, Chemical Data, …	**Derwent Innovations Index** Title. Abstract, Equivalent abstracts, International patent classification, Derwent Class codes, Derwent Manual codes	**Inspec** Title, Abstract, Controlled Indexing, Uncontrolled Indexing, Original Indexing Classification Code(s)
Zoological Records Title, Abstract, Broad Terms Descriptors Data, Super Taxa, Taxa Notes	**MEDLINE** Title, Abstract, MeSH Terms Keyword List, Chemical, Gene Symbol, Subject,…	**CABI** Title, Abstract, Descriptors, Broad Descriptors, Organism Descriptors, Geographic Location, CABICODE Names	**Data Citation Index** Titles, Abstracts, Repository Name, Data Study, Data Set
Food Science and Technology abstracts Title, Abstract, FSTA Thesaurus, MeSH Thesaurus	**Current Contents Connect** Title, Abstract, Author Keywords KeyWords Plus®	**Chinese Science Citation Database** Title, Abstract, Author Keywords	**SciELO Citation Index** Title, Abstract, Author Keywords

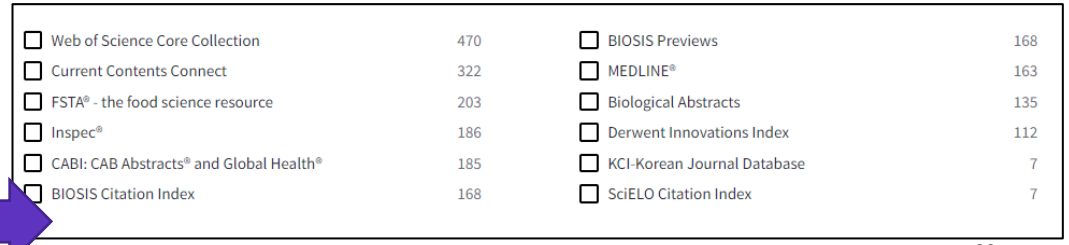
Searching

When searching in **All Databases** or the **Web of Science Core Collection**, the results can easily be filtered to show just **Patents** if required.





- See all document types
- Select “Patent” and refine



Record View

The DII indexed terms links are not present in the **Record View** of a **Patent** record when searching from **All Databases** or the **Web of Science Core Collection**.

Preparation of bioplastic material from a protein matrix and plasticizer, useful for making biodegradable packaging, films and adhesives

Patent Family | Chemical Information

Inventors: JEREZ GOMEZ A; PARTAL LOPEZ P; MARTINEZ GARCIA I; GALLEGOS MONTES C; GUERRERO CONEJO A
Patent Assignee:
UNIV HUELVA(UYHU-Non-standard)
Derwent Primary Accession Number: 2007-092424

In Web of Science the indexed information is not linked

International Patent Classification: C08L-000/00 ; C08H-001/00 Macromolecular products derived from proteins INFO 5542

Derwent Class Code(s): A92 (Packaging and containers - including ropes and nets.); A17 (Polymers of unsubstituted aliphatic monoolefins; including polyethylene.); A25 (Polyurethanes; polyethers.); G03 (Adhesives - excluding dispensers. Polymeric adhesives are also classified in Section A (C09H, J).)

Derwent Manual Code(s): A03-C01; A08-P01; A09-A07; G03-B02A

In Derwent Innovation Index it is linked

International Patent Classification: C08L-000/00 ; C08H-001/00 Macromolecular products derived from proteins INFO 5542

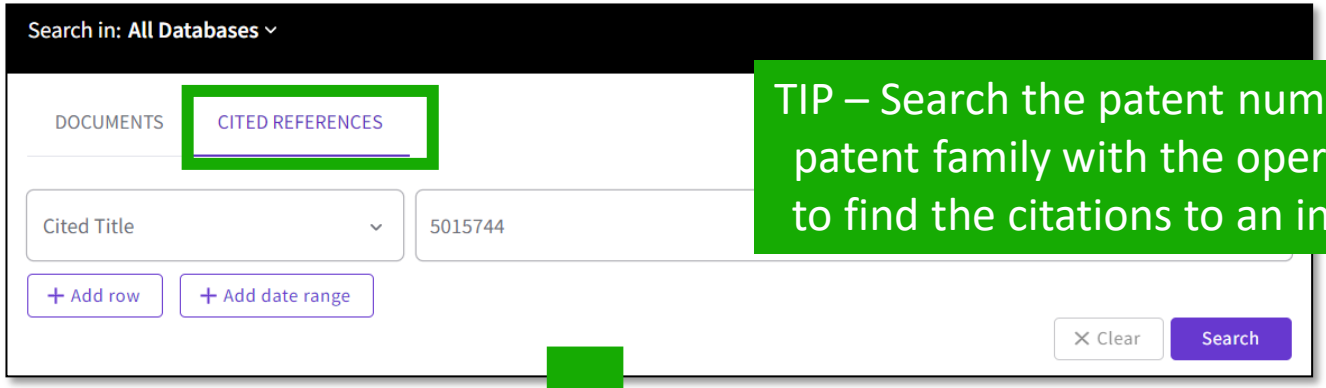
Derwent Class Code(s): A92 (Packaging and containers - including ropes and nets.); A17 (Polymers of unsubstituted aliphatic monoolefins; including polyethylene.); A25 (Polyurethanes; polyethers.); G03 (Adhesives - excluding dispensers. Polymeric adhesives are also classified in Section A (C09H, J).)

Derwent Manual Code(s): A03-C01 PROTEINACEOUS POLYMERS; A08-P01 PLASTICISERS AND EXTENDERS [GENERAL]; A09-A07 BIODEGRADABILITY; G03-B02A NATURAL POLYMERS ADHESIVES

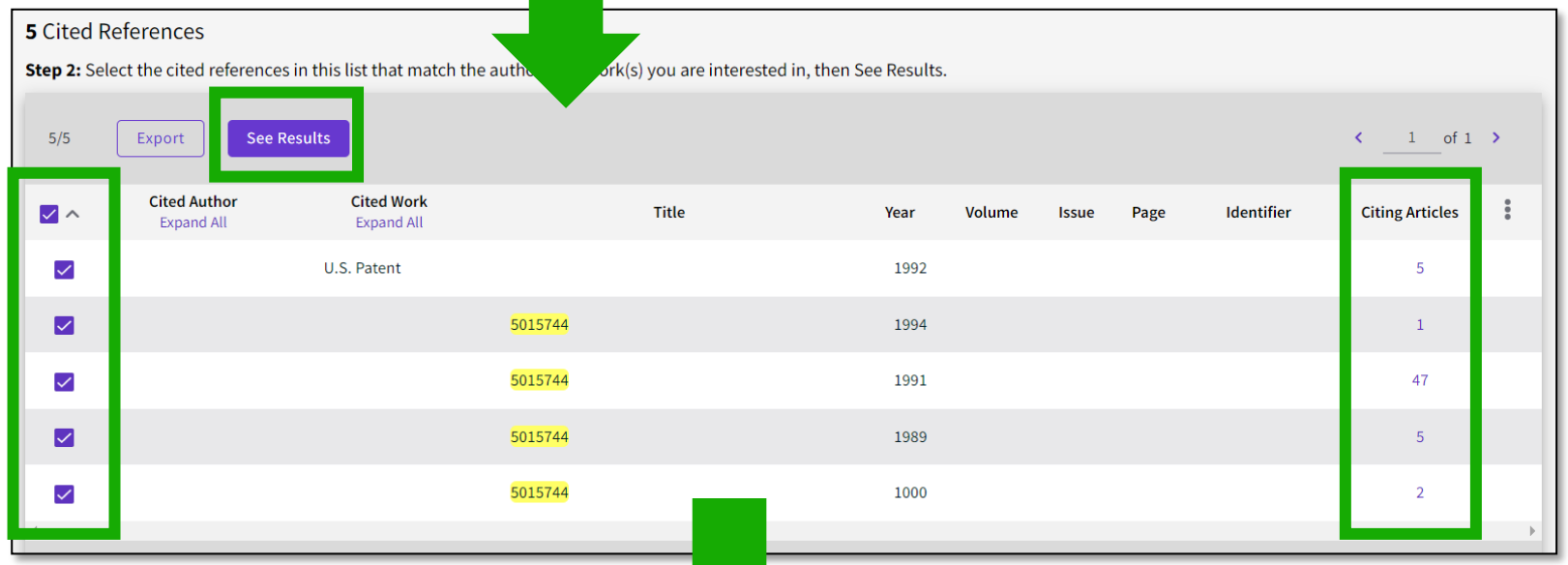
Cited Patent Search – All Databases

The **Cited Reference** in **Web of Science** can be used to search for **Cited Patents** too.

To do a Cited Reference Search for patents, enter the patent number in the **Cited Title** field. Do not specify a country code. For example, enter “5015744” to look up references to patent US5015744. This search will retrieve results for citations to this patent from source items indexed in the Web of Science.

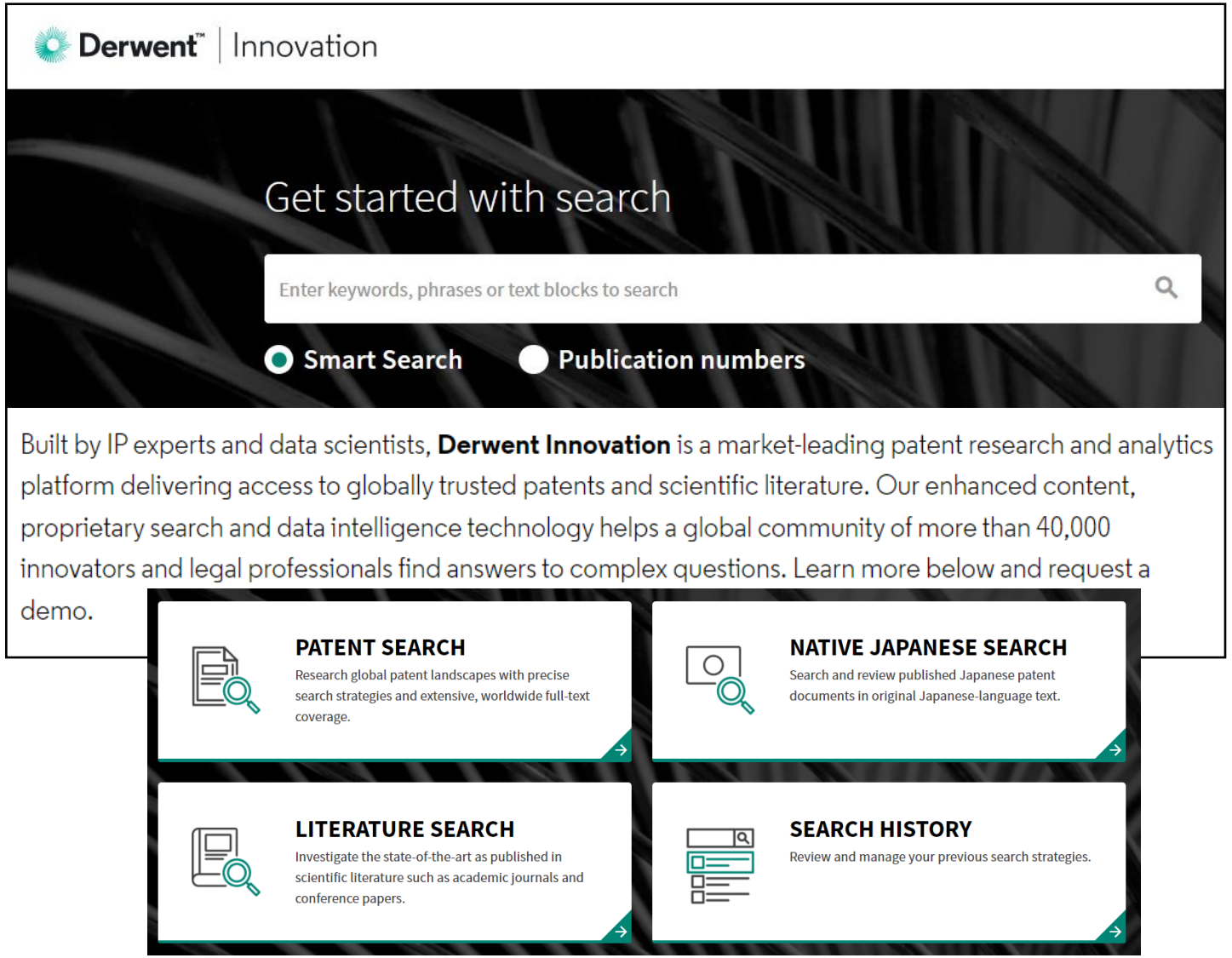


TIP – Search the patent numbers of a patent family with the operator OR to find the citations to an invention



More resources

More resources for patent specialists




Every
visionary
Needs
to see over
the horizon
Clarivate™