



# Technology Focus, Use, Advantage, etc – benefit from the highly structured Derwent abstract

Ernst Aichinger

# Agenda

- How does a typical DWPI record look like
- The Derwent title
- The Derwent abstract
- Appendix: Proximity operators in DWPI for keyword searching



# Key value of the Derwent World Patents Index

To present all the significant information from a patent specification in a single, highly structured record.

## **A DWPI record:**

- A record within DWPI relates to a particular invention/patent family
- The title, abstract and indexing applied to this record relate to the first document received (called the **basic**).
- Other family members are listed within the record and are referred to as **equivalents**

# Added value – The rewritten Derwent title

- Derwent title provides more information than the original
- Rewriting titles to cover:
  - **Scope:** subject of the main claim
  - **Novelty:** improvement compared to existing inventions
  - **Use:** general use of the invention

WO 2018106587 A1

Original title

Flexible abrasive article

Derwent title

Curable composition comprises a polymerizable epoxy-acrylate resin composition having a complex viscosity and abrasive particles partially or fully embedded in polymerizable epoxy-acrylate resin component, and has improved optical clarity

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# The Derwent abstract: precise and structured information

- Detailed – yet concise, avoiding patent jargon
- Each paragraph focuses on a different aspect of the patent
- Rapidly understand the key points of an invention

## ABSTRACT

**NOVELTY** - Curable composition comprises polymerizable epoxy-acrylate resin composition having a complex viscosity at 25 degrees C and 1 Hz frequency of at least about 4500 Pa-s and a probe tack peak force of at least about 300 kpa and abrasive particles partially or fully embedded in the polymerizable epoxy-acrylate resin component.

**DETAILED DESCRIPTION - INDEPENDENT CLAIMS** are included for:

- (1) an abrasive article, which comprises cured composition as an abrasive layer; and
- (2) method for making the abrasive article, which involves coating a curable composition having a curable composition first major surface and  
...

# Relevant abstract sections for each record

AB WO 2018106587 A1 UPAB: 20180706

**NOVELTY** - Curable composition comprises polymerizable epoxy-acrylate resin composition having a complex viscosity at 25 degrees C and 1 Hz frequency of at least about 4500 Pa-s and a probe tack peak force of at least about 300 kpa and abrasive particles partially or fully embedded in the polymerizable epoxy-acrylate resin component.

**DETAILED DESCRIPTION** - INDEPENDENT CLAIMS are included for the following:

- (1) an abrasive article, which comprises cured composition as an abrasive layer; and
- (2) method for making the abrasive article, which involves coating a curable composition having a curable composition first major surface and a curable composition second major surface between a first liner having a first liner major surface and a first liner second major surface and a second liner having a second liner first major surface and a second liner second major surface, where the first liner second major surface is in direct contact with substantially the entire curable composition first major surface and the second liner first major surface is in direct

**USE** - Curable composition.

**ADVANTAGE** - The curable composition has improved optical clarity.

**TECH POLYMERS** - Preferred Components: The polymerizable epoxy- acrylate resin composition has an aligned mineral retention after coating of at least about 95%. The polymerizable epoxy-acrylate resin composition comprises a tetrahydrofurfuryl (THF) (meth)acrylate copolymer component; one or more epoxy resins; and one or more hydroxy-functional polyethers. The polymerizable epoxy-acrylate resin composition further comprises one or more hydroxyl- containing film -forming polymers. The curable composition

...

## Clearly defined abstract fields allow

- the **indexer** to structure the information from the patent into information modules, each focusing on a different aspect
- to **search** for information in the appropriate fields
- to **review** efficiently only fields of interest

# Relevant abstract sections for each record

AB WO 2018106587 A1 UPAB: 20180706

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...

**NOVELTY** – What is new.

**DETAILED DESCRIPTION** – The broadest scope of the invention:

- 1) Field is included when it is not possible to summarize the main claim in NOV field.
- 2) Summarizes additional independent claims

**USE** – Stated uses or applications of the invention. If not indicated in patent – this is stated.

**ADVANTAGE** – Describes the benefits. They are given in relation to problems associated with the prior art.

**TECHNOLOGY FOCUS** – Details from dependent claims and preferred aspects from the detailed description. Distinct subheadings available for each technology area.

# Subsections of Derwent abstracts

/TI	The Derwent title		
/AB	The Derwent abstract	/USE	Use
		/NOV	Novelty
		/ADV	Advantage
		/DETD	Detailed description
		/ACTN	Mechanism of action
		/ACTV	Activity
		/DRWD	Drawing description
/TECH	Technology Focus	Relevant subsections chosen, e.g. Agriculture, Biotechnology, Ceramics and Glass, Metallurgy, Pharmaceuticals, Polymers,....	
/ABEX	Abstract Extension	/ABEX.ADM	Administration
		/ABEX.SC	Specific substances
		/ABEX.EX	Example
		/ABEX.DEF	Definitions
		/ABEX.WD	Wider disclosure
/ABDT	Documentation Ab.	/ABDT.USE, /ABDT.ADV,....	

7 separately searchable subsections

**\*Technology focus** describes the preferred features of the invention.

**\*Extension abstract** covers information outside the claims, e.g. examples and administration.

**\*Documentation abstract** was replaced by the Extension abstract in 1999

**\*For display: subscription required**

# Key advantages of the patent-oriented abstract

## 1 Efficiently search with keywords

Concise summaries of claims, uses and advantages. As patent jargon is avoided – generally accepted terminology can be used for searching.

## 2 Refine the search

Search in specific subsections of abstract for precise retrieval, e.g. focus search aspects to the novelty or main features of the invention (/NOV), etc.

## 3 Efficiently review results

The relevance of the retrieved documents can be quickly assessed by the rewritten abstracts and their subsections.

# Efficiently search with keywords

1

=> **FIL WPIX** (or **WPIINDEX** or **WPIDS**)

=> **S (TOOTHPASTE OR TOOTH PASTE OR DENTRIFICE) AND ABRASIV?**

L1 1888

Which abrasives are used for toothpastes with reduced abrasivity?

As patent jargon is avoided – generally accepted terminology can be used for searching the Derwent World Patents Index.

# Refine your search with abstract fields

2

=> **FIL WPIX**

=> **S (TOOTHPASTE OR TOOTH PASTE OR DENTRIFICE) AND ABRASIV?**

L1            1888

=> **S (TOOTHPASTE OR TOOTH PASTE OR DENTRIFICE)/TI,NOV,USE AND ABRASIV?/ADV**

L2            137

Which abrasives are used for toothpastes with reduced abrasivity?

Toothpaste has to be mentioned in Title, Novelty or Use

The abrasive or abrasivity of the toothpaste has to be described as an advantage of the invention by the patent assignee.  
*Optional: S ... AND ABRASIVIT?/ADV,NOV*

# Efficiently review results

3

=> FIL WPIX

=> S (TOOTHPASTE OR TOOTH PASTE OR DENTRIFICE) AND ABRASIV?

L1 1888

=> S (TOOTHPASTE OR TOOTH PASTE OR DENTRIFICE)/TI,NOV,USE AND ABRASIV?/ADV

L2 137

=> D FULL

L1 ANSWER 1 OF 137 WPIX COPYRIGHT 2020 CLARIVATE ANALYTICS on STN  
AN 2020-11781S [2020014] WPIX Full-text  
TI Oral care composition used in **toothpaste** or gel, comprises sodium bicarbonate and abrasive silicon dioxide

Next, display abstract (e.g. with D FULL) or selected sections of the abstract.

...

AB CN 110742815 A UPAB: 20200218  
NOVELTY - An oral care composition comprises abrasive silicon dioxide and sodium bicarbonate having particle size of 10-250 mu m.  
USE - The oral care composition used in toothpaste or gel (claimed).  
ADVANTAGE - The composition has high cleaning ability Pellicle Cleaning Ratio (PCR) of greater than or equal to 85, low abrasion value, and PCR/Relative Dentin **Abrasivity** (PCR/RDA) of greater than or equal to 0.90.

This document describes silicon dioxide and sodium bicarbonate with a specific particle size.

TECH PHARMACEUTICALS - Preferred Components: The composition comprises 2-30...

# SET HIGHLIGHTING to keep essentials in view

4

=> SET HIGHLIGHTING OFF

=> S (TOOTHPASTE OR TOOTH PASTE OR DENTRIFICE)/TI,NOV,USE AND ABRASIV?/ADV

L3 137

=> SET HIGHLIGHTING ON

=> S L3 AND ABRASIV?

L4 137

=> D KWIC=15

L4 ANSWER 1 OF 137 WPIX COPYRIGHT 2020 CLARIVATE ANALYTICS on STN  
TI Oral care composition used in toothpaste or gel, comprises sodium bicarbonate and **abrasive** silicon dioxide  
NOV NOVELTY - An oral care composition comprises **abrasive** silicon dioxide and sodium bicarbonate having particle size of 10-250 mu m.  
ADV . . . high cleaning ability Pellicle Cleaning Ratio (PCR) of greater than or equal to 85, low abrasion value, and PCR/Relative Dentin **Abrasivity** (PCR/RDA) of greater than or equal to 0.90.  
TECH PHARMACEUTICALS - Preferred Components: The composition comprises 2-30 wt.%, preferably 10-20 wt.% **abrasive** silicon dioxide, and 5-15 wt.%, preferably 10-15 wt.% sodium bicarbonate. The weight ratio of silicon dioxide to sodium bicarbonate is.. . .

Switch ON/OFF hit term highlighting to precisely display relevant information:

Search terms will be not highlighted.

Highlighting is switched on and search term "abrasive" searched again.

This allows to display specifically information around the search term "abrasive" (KWIC – KeyWord In Context)

# Contact Us



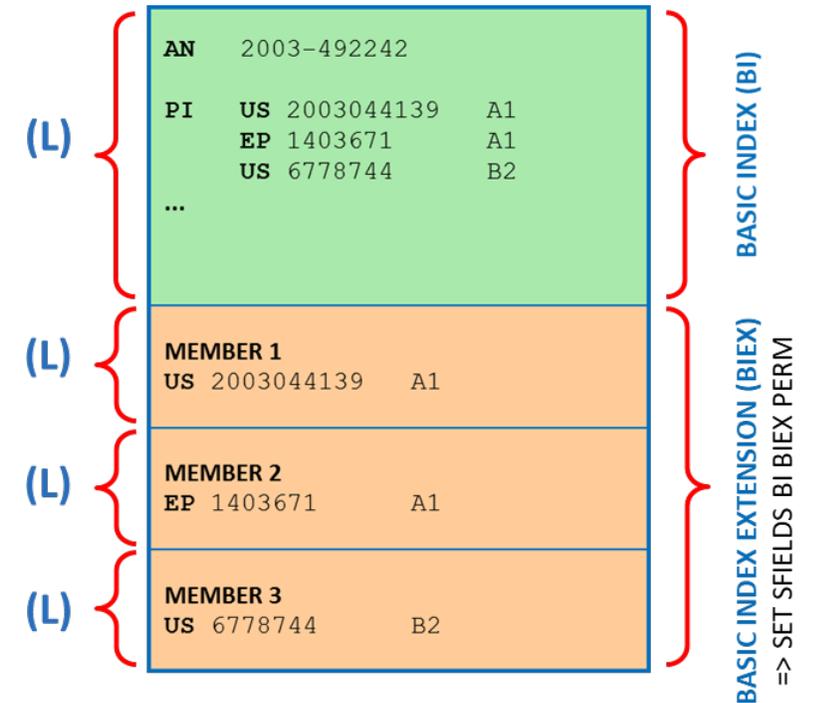
**CAS** [help@cas.org](mailto:help@cas.org)  
[www.cas.org](http://www.cas.org)

**FIZ Karlsruhe**

[helpdesk@fiz-karlsruhe.de](mailto:helpdesk@fiz-karlsruhe.de)  
[www.stn-international.de](http://www.stn-international.de)

# (L), (P) and (S)-operators for keyword searching

- The **(L)-operator** can be used in two ways:
  - Keywords are *within the invention level* or *within individual family members*
- The **(P)-operator** searches
  - keywords within one *individual abstract subsection* (e.g. within NOV)
  - keywords within one individual claim
- The **(S)-operator** searches within paragraphs:
  - Keywords are within a *paragraph from the abstract, technology focus, abstract extension or documentation abstract*



# (L), (P) and (S)-operators for keyword searching

=> S (?DEGRAD? (1W) POLYM?) (L) (RENEWABL? OR SUSTAINABL? OR NATURAL(2W)MATERIAL#)  
L1 421

ADVANTAGE - ... The diaper when stretched and deformed under stress, will return to its original shape, size and consistency upon discontinuation of the stress. The diaper is made of **renewable** resources.  
TECH POLYMERS - Preferred Composition: The outer sheet, inner sheet, side sheets, fastening tabs and fastening mat are made of a biobased and/or **biodegradable polymer** chosen from aliphatic polyester, aromatic polyester, cellulosic fiber and nonwoven material. ...

} (L)

=> S (?DEGRAD? (1W) POLYM?) (P) (RENEWABL? OR SUSTAINABL? OR NATURAL(2W)MATERIAL#)  
L2 305

[CLAIM 8] 8. The method according to any one of claims 1 to 3 for children ' s non-standard balloon dilation catheter, wherein the balloon is made of nylon polymer, **biodegradable polymer**, **natural fibre material** or a mixture thereof.

} (P)

=> S (?DEGRAD? (1W) POLYM?) (S) (RENEWABL? OR SUSTAINABL? OR NATURAL(2W)MATERIAL#)  
L3 294

NOVELTY - Orodispersible films from a **biodegradable polymeric** matrix and **renewable** source used as drug carriers for direct absorption into the oral cavity. The films are produced with 100% **renewable** and biodegradable raw material, being cassava starch, gelatin and pullulan.

} (S)