

Combination sets in the CPC: a powerful search method



Purpose of the Workshop

 How to use Combination Sets for the retrieval of Documents by searching

Outline

1.Introduction: Definition of Combination Sets

2.Comparison C-set/ single symbol

3. Fields concerned

4. Practical examples

5. Conclusions

Definition of Combination-sets:

Special classification/search technique

Combination of two or more technical features

Definition of Combination-sets:

 Adding information by the combination of one or more other features

 Example: specific Polymer (C08L) + specific additive (C08K)

⇒ (C08K3/04,C08L9/00) (composition of carbon black and polybutadiene

Definition of Combination-sets:

First symbol: Base symbol

Possible use of Combination set with Additional symbols

Definition of Combination-sets:

 Limited number of fields make official use of the technique, though (in principle no limitation)

 Use of Combination Sets in a field identified from the Notes in the Scheme and/or from Definitions

Use of C-Sets:

Search in Patent Databases like CAPLUS/STN

All valid classification symbols used

 Search of technical features "together" or "taken in combination"

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• Why Combination sets instead of single symbols ?

- More precised search
- Less time consuming searches

 Single symbols classifying technical features on their own

C08G63/183

Linked symbols classifying technical features "together"

(C08K5/098,C08L67/02)

- PET+metal stearate
- EPODOC: SS 4] /c C08I67/02 Results in EPODOC 23.050
- [SS 5] /c C08K5/098 Results in EPODOC 13.809
- [SS 6] 4 and 5 **Results in EPODOC 663**

- Searching with single symbol
 Searching with linked symbol
 - PET+metal stearate
 - [SS 10] /cl (C08K5/098 s C08I67/02)
 - Results in EPODOC 753

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- Searching with single symbol
 Searching with linked symbol
- Statistic:
- Documents not relevant
- **376**

- Statistic:
- Documents not relevant
- 0

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3. Fields

Where to find Combination Sets?

Sections A, B, C,D, G, H

3. Fields

Combination Sets in a specific field ?



 Notes in the Scheme and/or from Definitions of the field concerned

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How does it work?



Use of Patent databases

ROAD MAP

1. Identification of the combined features:

2. Combination set in my field?

3. If YES then CPC Schemes /definition

- Polymers: US2014378583
- 1. A composition comprising at least:
- (a) a thermoplastic polyamide resin;
- (b) a thermoplastic polyester resin;
- (c) a reinforcing or bulking filler; and
- (d) a fire retardant,
- the composition not comprising any compatibilizer for the polyamide and the polyester

- Polymers: US2014378583
- 4 Components
- (a) a thermoplastic polyamide resin; (C08L77/00)
- (b) a thermoplastic polyester resin; (C08L67/02)
- (c) a reinforcing or bulking filler; and (C08K7/02)
- (d) a fire retardant (C08K5/51)

■ Polymers: US2014378583

■ 1) 4 symbols for 4 elements

2) Combination set for blend of polymer(s) with additive(s)

3) CPC scheme: (C08L77/00, C08L67/02,C08K7/02,C08K5/51)

4. Practical examples (US2014378583)

Epodoc:

[EPODOC: SS 16] /cl (C08L77/00 s c08L67/02 s C08K7/02 s c08K5/51)

Results in EPODOC 6

CAPLUS

S(C08L77/00/cpc)(s)(C08L67/02/cpc)(s)(C08K7/02/cpc)(s)(C08K7/02/cpc)K5/51/cpc)

L11 1 (C08L77/00/CPC)
 (S) (C08L67/02/CPC) (S)
 (C08K7/02/CPC) (S) (C08K
 5/51/CPC)

Organic chemistry: US2014378713

A method of producing 1-(2-t-butylcyclohexyloxy)-2-butanol, comprising:

Hydrogenating 1-(2-t-butylphenyloxy)-2-butanol

Organic chemistry: US2014378713

Target compound: 1-(2-t-butylcyclohexyloxy)-2-butanol (C07C43/196)

Method:

Hydrogenating 1-(2-t-butylphenyloxy)-2-butanol (C07C41/20)

Combination set: (C07C41/20, C07C43/196)

4. Practical examples (US2014 378713)

Epodoc:

[EPODOC: SS 5] /cl (C07C41/20 s C07c43/196)

Results in EPODOC: 26

CAPLUS

s (C07C41/20/CPC) s(C07C43/196/CPC)

L1 8 (C07C41/20/CPC)
 (S) (C07C43/196/CPC)

Medicine: US2014378524

- A method for treating a disorder of uncontrolled cellular proliferation in a subject, comprising the step of coadministering to the subject
- an Akt therapeutic agent (A61K31/713)
- and a phospholipase D inhibitor (A61K31/454), (A61K31/438), (A61K31/435)

Medicine: US2014378524

- co-administering to the subject (mixture of active agents)
- (A61K31/xx, A61K31/2300)
- an Akt therapeutic agent (A61K31/713)
- phospholipase D inhibitor (A61K31/454), (A61K31/438), (A61K31/435)

Medicine: US2014378524

- Combination sets:
- (A61K31/454, A61K2300),
- (A61K31/438, A61K2300),
- (A61K31/435, A61K2300)
- (A61K31/713, A61K2300)

Medicine: US2014378524

EPODOC:

SS 13] /cl (a61k31/435 s a61k2300/00); 1527

[SS 14] /cl (a61k31/438 s a61k2300/00);247

[SS 15] /cl (a61k31/454 s a61k2300/00); 1928

[SS 16] /cl (a61k31/713 s a61k2300/00); 492

[SS 17] 16 and (13 or 14 or 15); 5

Medicine: US2014378524

CAPLUS:

- L3
 226 (A61K31/435/CPC) (S) (A61K2300/00/CPC)
- L4
 48 (A61K31/438/CPC) (S) (A61K2300/00/CPC)
- L5 371 (A61K31/454/CPC) (S) (A61K2300/00/CPC)
- L6
 195 (A61K31/713/CPC) (S) (A61K2300/00/CPC)
- 6 (L3 OR L4 OR L5) AND L6

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1. More concise search

2. Finding more quickly relevant Patents

3. Reduction of "noise"