



**STN Coffee Lecture**

# Who Wrote That? Part 2 - Searching for Companies on STNNext

# Searching for Company Names

Verify how a company name is entered in the database with EXPAND

*Retrieve references which originate from the Exxon Mobil Corporation*

=> **FIL HCAPLUS**

=> **E EXXON/PA**

E1	3	EXXOMOBIL UPSTREAM RESEARCH COMPANY/PA
E2	3	EXXOMOBIL UPSTREAM RESEARCH COMPANY USA/PA
E3	6392	--> EXXON/PA
E4	6	EXXON CHEMI CAL JAPAN LTD/PA
E5	1	EXXON CHEMI CAL JAPAN LTD JAPAN/PA
E6	24	EXXON CHEMI CAL LI MI TED/PA
E7	6	EXXON CHEMI CAL LI MI TED UK/PA
E8	56	EXXON CHEMI CAL LTD/PA
E9	44	EXXON CHEMI CAL LTD UK/PA
E10	7	EXXON CHEMI CAL LTD USA/PA
E11	1	EXXON CHEMI CAL PATENT INC/PA
E12	1705	EXXON CHEMI CAL PATENTS INC/PA

Depending on the database you are in and the focus of your search, company names might be searched either in the **Corporate Source (/CS)**, **Corporate Name (/CO)** or **Patent Assignee (/PA)** field. Please note that those fields are not part of the Basic Index.

Use the **EXPAND** command to verify how the company name is entered in the database HCAplus.

**Tip:** Use the PA field for EXPANDING as the CS field also contains address information. This consequently would give you a rather long list of all sites worldwide and not a clear overview on the naming variations used in the database



# Searching for Company Names

Verify how a company name is entered in the database with EXPAND

Continue to expand on the company name by typing **E** and pressing ENTER.

=> **FIL HCAPLUS**

=> **E EXXON/PA**

E1	3	EXXOMOBILRESEARCH COMPANY/PA
E2	3	EXXOMOBILRESEARCH COMPANY USA/PA
E3	6392	--> EXXON/PA
E4	6	EXXON CHEMICAL JAPAN LTD/PA
E5	1	EXXON CHEMICAL JAPAN LTD JAPAN/PA
E6	24	EXXON CHEMICAL LIMITED/PA
E7	6	EXXON CHEMICAL LIMITED UK/PA
E8	56	EXXON CHEMICAL LTD/PA
E9	44	EXXON CHEMICAL LTD UK/PA
E10	7	EXXON CHEMICAL LTD USA/PA
E11	1	EXXON CHEMICAL PATENT INC/PA
E12	1705	EXXON CHEMICAL PATENTS INC/PA

=> **E**

E13	2	EXXON CHEMICAL PATENTS INC JAPAN/PA
E14	5	EXXON CHEMICAL PATENTS INC UK/PA
E15	1626	EXXON CHEMICAL PATENTS INC USA/PA
...		
E43	116	EXXON PRODUCTION RESEARCH CO USA/PA
E44	61	EXXON PRODUCTION RESEARCH COMPANY/PA
...		
E48	1	EXXON RES ENG CO/PA
E49	4016	EXXON RESEARCH AND ENGINEERING CO/PA
...		
E74	7574	EXXONMOBIL/PA
...		
E94	3455	EXXONMOBIL CHEMICAL PATENTS INC/PA
...		
E171	1147	EXXONMOBIL UPSTREAM RESEARCH COMPANY/PA
...		
E209	1	EXXOONMOBIL/PA
E210	1	EXXOSOME/PA
E211	1	EXXOSOME CO LTD/PA

# Searching for Company Names

Verify how a company name is entered in the database with EXPAND

=> S EXXON?/PA

L1 13971 EXXON?/PA

=> S E3- E209

L2 13971 (EXXON/PA OR "EXXON CHEMICAL JAPAN LTD"/PA OR "EXXON CHEMICAL JAPAN LTD JAPAN"/PA OR "EXXON CHEMICAL LIMITED"/PA OR "EXXON ... )

=> S EXXON?/CS NOT PATENT/DT (alternatively: => S E3- E209/CS NOT PATENT/DT)

L3 8460 EXXON?/CS NOT PATENT/DT

=> D TI CS S0

TI A modified perturbed chain-statistical associating fluid theory equation of state for water which includes an association dependent hard sphere diameter


CS ExxonMobil Research and Engineering, Annandale, NJ, USA

S0 AIChE Journal (2021) Ahead of Print

CODEN: AI CEAC; ISSN: 0001-1541

Either create a query that uses the common company name stem and an **appropriate truncation**, ...

... or use the **E numbers** that correspond to the relevant company name entries.

To include also non-patent literature in the search, use the CS field instead. 

# Useful strategies for conducting Company Name searches

For COMPANY names	Company	Tip	Search Example
with internal spaces	Du Pont	EXPAND on both variations, with and without spaces	Du Pont/PA DuPont/PA
with internal punctuation (apostrophes, hyphens)	L'Oreal	EXPAND with and without internal punctuation	L'Oreal/PA L Oreal/PA Loreal/PA
with 'and' / 'und' / ampersand (&) in between	Procter & Gamble	Link both parts of the name with (S) or (xW) instead	(Procter (S) Gamble)/PA
with historical changes (here: change of company name)	old: Corning Glass Works new: Corning, Inc.	EXPAND on the company name stem which both the new and the old name have in common	Corning/PA
with historical changes (here: change of company name in consequence of merger)	Ciba + Sandoz => Novartis	Include the former company names and the new name of the resulting company after the merger	Ciba Geigy/PA Sandoz/PA Novartis/PA

# Searching for Company Names

The Company Name Thesaurus available in CA databases

*Retrieve references which originate from the Exxon Mobil Corp*

=> **FIL HCAPLUS**

=> **E EXXONMOBIL/CO**

E#	FREQUENCY	AT	TERM
---	-----	--	----
E1	4		EXXON VENTURES CIS INC/CO
E2	1		EXXONMOBIL RESEARCH AND ENGINEERING
<b>E3</b>	<b>76</b>	<b>175 --&gt;</b>	<b>EXXONMOBIL/CO</b>
E4	1		EXXONMOBIL ASIA PACIFIC RESEARCH AND NY LTD/CO
E5	1		EXXONMOBIL ASIA PACIFIC RESEARCH DEVELOPMENT/CO
E6	6		EXXONMOBIL ASIA PACIFIC RESEARCH DEVELOPMENT CO LTD/CO
E7	1		EXXONMOBIL BIOMEDICAL SCIENCE/CO
E8	1		EXXONMOBIL BIOMEDICAL SCIENCE INC ANNANDALE/CO
E9	20		EXXONMOBIL BIOMEDICAL SCIENCES/CO
E10	109		EXXONMOBIL BIOMEDICAL SCIENCES INC/CO
E11	1		EXXONMOBIL BIOMEDICAL SCIENCES INCORPORATED/CO
E12	1		EXXONMOBIL CATALYST SERVICES INC/CO

The large Company Name Thesaurus which is available in the /CO field allows to easily identify a company's subsidiaries and joint-ventures for subsequent searching. Furthermore it includes detailed historical notes.

The number of associated terms (AT) indicates that *EXXONMOBIL* is the parent company name. EXPANDING on the parent company by typing **E E3+ALL** will open the complete hierarchy displaying the company history as well as know subsidiaries.



# Searching for Company Names

The Company Name Thesaurus available in CA databases

Besides a detailed overview of a company's history listing mergers, acquisitions, etc. ...

=> E E3+ALL

E14            76    --> EXXONMOBIL/CO  
NOTES 1882: Standard Oil Co. of New Jersey incorporated  
1882: Standard Oil Co. of New York incorporated  
1890: Deutsch-Amerikanische Petroleum-Gesellschaft  
formed  
1909: Humble Oil & Refining Co. founded  
1926: Standard Oil Co. of New York acquired General  
Petroleum Corp. of California  
1931: Standard Oil Co. of New York merged with Vacuum  
Oil. Co. to form Socony-Vacuum Oil Co., Inc.  
...  
1976: Mobil Corp. incorporated  
1987: Esso Chimie renamed Societe Francaise Exxon  
Chemical  
1991: Advanced Elastomer Systems LP formed  
1999: Exxon Corp. and Mobil Corp. merged to form  
ExxonMobil Corp  
1999: Mobil Chemical Co. and Exxon Chemical Co. merged  
to form ExxonMobil Chemical Co.

# Searching for Company Names

The Company Name Thesaurus available in CA databases

```
E15      186      RT1  ADVANCED ELASTOMER SYSTEMS L P/CO
E16      10      RT1  ADVANCED ELASTOMER SYSTEMS LP/CO
E17       1      RT1  DEUTSCH AMERIKANISCHE PETROLEUM GESELLSCHAFT/CO
E18      91      RT1  ESSO A G/CO
E19       2      RT1  ESSO AG/CO
...
E125     4169     RT1  EXXON RESEARCH AND ENGINEERING CO/CO
E126     545     RT1  EXXON RESEARCH AND ENGINEERING COMPANY/CO
E127      48     RT1  EXXON RESEARCH ENGINEERING CO/CO
E128      46     RT1  EXXON RESEARCH ENGINEERING COMPANY/CO
E129       1     RT1  EXXON RESOURCES CANADA/CO
E130     395     RT1  EXXONMOBIL CHEMICAL COMPANY/CO
E131       5     RT1  EXXONMOBIL CHEMICAL COMPANY INC/CO
E132      24     RT1  EXXONMOBIL CHEMICAL LIMITED/CO
E133       5     RT1  EXXONMOBIL CHEMICAL LTD/CO
E134    3455     RT1  EXXONMOBIL CHEMICAL PATENTS INC/CO
...
E159     5939     RT1  MOBIL OIL CORP/CO
E160     617     RT1  MOBIL OIL CORPORATION/CO
...
E183     6040     RT1  STANDARD OIL DEVELOPMENT CO/CO
E184      35     RT1  STANDARD OIL DEVELOPMENT COMPANY/CO
...
***** END *****
```

... the Company Thesaurus lists all known current as well as historic subsidiaries (e.g. see Exxon, Mobil Oil Corp. or Standard Oil Development), which can be included in a comprehensive search.

Historic note: In 1999, Exxon Corp. (formally Standard Oil of New Jersey) and Mobil Oil Corp. (formerly Standard Oil Company of New York) merged to form ExxonMobil.



# Searching for Company Names

The Company Name Thesaurus available in CA databases

=> S E14-E187

L4 49591 ("ADVANCED ELASTOMER SYSTEMS L P"/CO OR "ADVANCED ELASTOMER SYSTEMS LP"/CO OR "DEUTSCH AMERIKANISCHE PETROLEUM GESELLSCHAFT"/CO OR "ESSO A G"/CO OR "ESSO AG"/CO OR "ESSO AUSTRALIA LTD"/CO OR ...)

=> S EXXONMOBIL+RT/CO (alternatively: => S E3+RT)

L5 49591 EXXONMOBIL+RT/CO (174 TERMS)

=> S L5 AND PATENT/DT

L6 36761 L5 AND PATENT/DT

=> D TI PA

TI Preparation of thermoplastic vulcanizates using multimodal rubber and dynamically-vulcanized thermoplastic vulcanizate  
PA Advanced Elastomer Systems, L. P., USA

To search for all references for a specific company and its subsidiaries either use E numbers again or ...

... or link the parent company name *EXXONMOBIL* with the relationship code +RT)

Please note that the CO field will also retrieve non-patent literature references.



# Searching for Company Names

## Patent assignee codes (PACO) in the Derwent World Patents Index

AN 2021-698581 [2021052] WPIINDEX Full-text  
TI Method for manufacturing a device allows to attach in parallel a chips to a substrate, involves providing a first carrier, such as a glass carrier, and the subset of the chips is released from the conveyor carrier by debonding  
PA **(FRAU-C) FRAUNHOFER GES FOERDERUNG ANGEWANDTEN EV; (HUAW-C) HUAWEI TECHNOLOGIES DUESSELDORF GMBH**

AN 2019-46146L [201946] WPIINDEX Full-text  
TI Use of 4-phenylbutan-2-one-based compound in pharmaceutical composition for improving mental performance e.g. memory performance, learning performance or dementia disorder  
PA **(DENE-N) DEUT ZENT NEURODEGENERATIVE ERKRANKUNGEN; (LEIB-N) LEIBNIZ-INST NEUROBIOLOGIE LIN STIFTUNG; (LEIB-N) LEIBNIZ-INST PFLANZENBIOCHEMIE IPB; (LEIB-N) LEIBNIZ-INST PFLANZENBIOCHEM IPB**

AN 2021-66562S [2021050] WPIINDEX Full-text  
TI Greenhouse for planting traditional Chinese medicine, has water collecting pipe connected with lower part of fixing plate, adjusting component provided with ventilating fan and heating lamp, where heating lamp is fixed between connecting frame and plate  
PA **(LEIB-N) LEIBO BENDAO AGRIC BIOTECHNOLOGY DEV CO**

Clarivate generates four-letter **patent assignee codes (PACO)** to offer an (ideally) unique searchable identifier for each patent assignee.

Currently, approximately 21,000 major corporations holding each more than 500 patents in WPIINDEX are assigned a unique code in STN marked by a trailing -C (PACO-C).

# Searching for Company Names

## Patent assignee codes (PACO) in the Derwent World Patents Index

AN 2021-698581 [2021052] WPIINDEX Full-text  
TI Method for manufacturing a device allows to attach in parallel a chips to a substrate, involves providing a first carrier, such as a glass carrier, and the subset of the chips is released from the conveyor carrier by debonding  
PA (FRAU-C) FRAUNHOFER GES FOERDERUNG ANGEWANDTEN EV; (HUAUW-C) HUAWEI TECHNOLOGIES DUESSELDORF GMBH

AN 2019-46146L [201946] WPIINDEX Full-text  
TI Use of 4-phenylbutan-2-one-based compound in pharmaceutical composition for improving mental performance e.g. memory performance, learning performance or dementia disorder  
PA (DENE-N) DEUT ZENT NEURODEGENERATIVE ERKRANKUNGEN; **(LEIB-N) LEIBNIZ-INST NEUROBIOLOGIE LIN STIFTUNG; (LEIB-N) LEIBNIZ-INST PFLANZENBIOCHEMIE IPB; (LEIB-N) LEIBNIZ-INST PFLANZENBIOCHEM IPB**

AN 2021-66562S [2021050] WPIINDEX Full-text  
TI Greenhouse for planting traditional Chinese medicine, has water collecting pipe connected with lower part of fixing plate, adjusting component provided with ventilating fan and heating lamp, where heating lamp is fixed between connecting frame and plate  
PA **(LEIB-N) LEIBO BENDAO AGRIC BIOTECHNOLOGY DEV CO**

Please note that smaller companies and institutes that do not file a large number of patents often share a single PACO code even if they don't have any affiliation whatsoever. These ambiguous codes are marked -N (PACO-N) and are not suitable for searching.

# Searching for Company Names

Patent assignee codes (PACO) in the Derwent World Patents Index

=> FIL WPIINDEX

=> E EXXONMOBIL/PACO

E#	FREQUENCY	AT	TERM
---	-----	---	----
E188	0	1	EXXONBOBIL CHEM PATENTS INC/PACO
E189	0	1	EXXONBOBIL RES & ENG CO/PACO
E190	0	2	--> EXXONMOBIL/PACO
E191	0	1	EXXONMOBIL ASIA PACIFIC RES & DEV CO LTD/PACO
E192	0	1	EXXONMOBIL CHEM CO/PACO
...			
E197	0	1	EXXONMOBIL CHEM PATENTES INC/PACO
E198	0	1	EXXONMOBIL CHEM PATENTS/PACO
E199	0	1	EXXONMOBIL CHEM PATENTS CO/PACO

=> E E190+ALL

E200	0	-->	EXXONMOBIL/PACO
E201	19747	CODE	ESSO- C/PACO

If a PACO code is unknown, those can be retrieved with the help of the PACO thesaurus.

# Searching for Company Names

## Patent assignee codes (PACO) in the Derwent World Patents Index

=> E ESSO- C+DEF/PACO (alternatively: => S E201+DEF)

```
E203      19747  -->  ESSO- C/PACO
E204      DEF   ADVANCED ELASTOMER SYSTEM LP/PACO
E205      DEF   ADVANCED ELASTOMER SYSTEMS/PACO
E206      DEF   ADVANCED ELASTOMER SYSTEMS CO/PACO
...
E218      DEF   ESSO CHEM GMBH/PACO
E219      DEF   ESSO CHIM/PACO
E220      DEF   ESSO CO/PACO
...
E243      DEF   EXXON CHEM LTD/PACO
E244      DEF   EXXON CHEM PATENT CO/PACO
E245      DEF   EXXON CHEM PATENT CORP/PACO
E246      DEF   EXXON CHEM PATENTS INC/PACO
...
E290      DEF   EXXONMOBIL CHEM PATENTS LTD/PACO
E291      DEF   EXXONMOBIL CORP/PACO
...
E311      DEF   TWP ENTERPRISES OF GEORGIA INC/PACO
E312      DEF   TWP INC/PACO
E313      DEF   TWP LAGE GMBH/PACO
E314      DEF   XTO ENERGY INC/PACO
***** END *****
```

Next to the PACO code for a specific company, the PACO thesaurus also lists all known subsidiaries available in the database. To see all affiliates of the parent company listed, EXPAND on the PACO code of interest and add a suitable relationship code (here: +DEF)

Please note that in some cases company history might not be completely covered with these PACO codes.

**Tip:** If there are changes in company names in consequence of a merger, make sure that the former company names are covered under the same PACO code as the new company name after the merger. If this is not the case, try to identify also the PACO code of the old company names and include those in your search to be complete.



# Searching for Company Names

Patent assignee codes (PACO) in the Derwent World Patents Index

=> E MOBI - C+DEF/PACO

```
315      8277  --> MOBI - C/PACO
E316      DEF  MOBIL BUSINESS RESOURCES CORP/PACO
E317      DEF  MOBIL CORP/PACO
E318      DEF  MOBIL ERDGAS- ERDOEL GMBH/PACO
...
E335      DEF  MOBIL OIL SOUTH AFRICA LTD/PACO
E336      DEF  MOBIL OIL SWITZERLAND/PACO
E337      DEF  MOBIL PLASTICS EURO/PACO
E338      DEF  MOBIL SCHMIERSTOFF GMBH/PACO
E339      DEF  MOBIL TYCO SOLAR ENERGY CORP/PACO
E340      DEF  SOCONY MOBIL OIL CO/PACO
***** END *****
```

=> S (MOBI OR ESSO) /PACO

```
      8277 MOBI /PACO
      (MOBI - C/PACO)
19747 ESSO/PACO
      (ESSO- C/PACO)
```

L2 27672 (MOBI OR ESSO) /PACO

Please note that by default the system will search only the PACO codes with a trailing "-C".



# Tips for Searching Company Names

Search value-add company names in other files

=> **FIL USPATFULL**

=> **S EXXON?/PA**

L1            6865 EXXON?/PA

=> **S E14-E187/PA OR E204-E314/PA OR E316-340/PA**

L2            15351 (EXXONMOBIL/PA OR "ADVANCED ELASTOMER SYSTEMS L P"/PA OR "ADVANCED ELASTOMER SYSTEMS LP"/PA ...)

=> **D TI PI PA**

TI            Manufacturing of Shaped Coolant Hoses

PI            US 20090065971            A1   20090312

PA            **ADVANCED ELASTOMER SYSTEMS, L. P.**, Akron, OH, UNITED STATES (U. S. corporation)

TI            Gasoline sulfur reduction in fluid catalytic cracking

PI            US 6852214                B1   20050208

PA            **Mobil Oil Corporation**, Fairfax, VA, United States (U. S. corporation)

**Tip:** Corporate names identified in the **CAS company thesaurus** (E14-187) as well as the **DERWENT PACO thesaurus** (E204-340) can be used to easily enhance a company name search in other files than CPlus or DWPI.

# Key takeaways

- No formal rules for entering company names in a database exist
- Use the EXPAND command to verify how a company name is entered in a specific database before searching
- To simplify company name searching, some database producers try to standardize organization names or provide a condensed overview of a companies' history
  - CAS Company Thesaurus
  - Unique Patent Assignee Codes (PACO)
- Use this value-add company information to enhance your search in other files on STNext

# Feedback, comments and questions to:

**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)



**Sebastian Brauch**

[sebastian.brauch@fiz-karlsruhe.de](mailto:sebastian.brauch@fiz-karlsruhe.de)