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## Advanced topics

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**DWPI on STN Workshop Manual**
One-day workshop

Agenda

• Basic Topics
  – What is the Derwent World Patents Index (DWPI$^\text{SM}$)?
  – A tour through a typical database record
  – Searching DWPI on STN

• Advanced Topics
  – DWPI member-level search and display options
  – Japanese patents in DWPI
  – DWPI Chemistry Resource (DCR)
  – Current awareness Alerts/SDIs
  – Derwent Patents Citation Index (DPCI)
  – Post-processing results using STN Express
What is Derwent World Patents Index?

- The largest value-added patent database
  - Covers 47 patenting organizations
- An index of global patent publications
  - Concise patent families
  - Enhanced English titles and abstracts
  - Patent Assignee Codes
  - Classification and Indexing
- Produced by Thomson Reuters

What is “value-add” in DWPI?

- An enhanced, meaningful title (TI), and patent-focused abstract (AB) reveal the actual invention
- An additional Technology Focus (TECH) abstract, highlights the preferred features of the invention
- A high-quality bibliography summarizes global publication details for a particular invention
- Patent Assignee Codes (PACO) assist in retrieving comprehensive company search answer sets
- Proprietary subject indexing and classification, combined with original Patent Office classification, provide precise and unique search options
Example: The value of enhanced titles

---

**United States Patent**

**Mannak**

**AN 1998-534291 [46] WPINDEX**

**TI** Telecommunications system for combined pager and cellular telephone terminal - includes terminals with pager section that can be detached, transmits to pager section calls from callers who form part of user preferred group.

**DC** A25; A26; V02; V03; V04; W02; W06; X12; X16

**IN** MORITOMI S

**PA** (SUMO-C) SUMITOMO CHEM CO LTD

**PIA** DE 19947832 A1 19990911 19991108 DE 19991832 A1 20000413 (200028)* DE 11[0] JP 2000178436 A 20000627 (200036) JA 7


**PRAI** JP 1998-285194 19981007

---

Example: Find English-language equivalents

---

**DE 19947832 A1 Offenlegungsschrift**

**TI** A fire resistant polyphenylene resin composition useful in the preparation of shaped parts and fire resistant electrical and electronics parts contains an organopolysiloxane having alky and aryl residues

**DC** A25; A26; V02; V03; V04; W02; W06; X12; X16

**IN** MORITOMI S

**PA** (SUMO-C) SUMITOMO CHEM CO LTD

**PIA** DE 19947832 A1 20000413 (200028)* DE 11[0] JP 2000178436 A 20000627 (200036) JA 7


**PRAI** JP 1998-285194 19981007

---
### How to access DWPI on STN?

Desk-top software providing classic online access, with Web links and search assistants. Includes efficient post-processing and analysis tools for reports, charts & tables

<table>
<thead>
<tr>
<th>STN Express</th>
<th>STNEasy</th>
<th>STN on the web</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://stneasy.fiz-karlsruhe.de">http://stneasy.fiz-karlsruhe.de</a></td>
<td>Easy-to-use web access for occasional, basic searches</td>
<td><a href="http://stnweb.fiz-karlsruhe.de">http://stnweb.fiz-karlsruhe.de</a></td>
</tr>
<tr>
<td>Browser based online access for professional searchers with the benefits of the Web</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### How to access DWPI on STN? (cont.)

- **FILE WPINDEX**
  - Open access database
- **FILE WPIIDS**
  - Subscriber database
- **FILE WPIX**
  - Subscriber database with Extension Abstracts
- **FILE LWPI**
  - The DWPI learning file
**DWPI subject coverage**

- 1963 Pharmaceuticals
- 1965 Agriculture Chemicals
- 1966 Plastics & Polymers
- 1970 Rest of Chemistry
- 1974 All technologies

---

**Agenda**

**Basic Topics**
- What is the Derwent Word Patents Index (DWPI<sup>SM</sup>)?
- A tour through a typical database record
- Searching DWPI on STN

**Advanced Topics**
- DWPI member-level search and display options
- Japanese patents in DWPI
- DWPI Chemistry Resource (DCR)
- Current awareness Alerts/SDIs
- Derwent Patents Citation Index (DPCI)
- Post-processing results using STN Express
DWPI records have two levels

- **INVENTION** value-added data
- **PUBLICATION** original member data

DWPI invention level data

- Patent family data
- Thomson Reuters value added data
  - Enhanced title and abstract(s)
  - Proprietary classification and indexing
- Deduplicated inventor and assignee data
- Deduplicated patent classifications
DWPI member level data

- Original titles, abstracts and claim(s)
- Full inventor names and addresses
- Original assignee names and addresses
- Attorney/agent names and addresses
- Available for many DWPI patent authorities

Note: Different patent authorities and publication types have different amounts of data at the member level. See this table for all the details: [http://www.stn-international.com/dwpi_table.html](http://www.stn-international.com/dwpi_table.html)

A tour through a typical DWPI record

- Enhanced title
- Patent family
- Inventor and assignee
- Enhanced abstract
- Selected drawing image
- Patent classifications
- Original title and abstract
- Claim(s) text
Iron, for ironing clothes, has water reservoir, textile additive reservoir and piston and valve pump which mixes water and additive in mixing chamber before discharge at front of iron through pulverizer.

Inventor (IN) and assignee (PA).

Inventor (IN) and assignee (PA).

U.S., European and International Patent classifications.

The DWPI enhanced abstract provides a concise summary of the claimed invention.

The DWPI selected drawing image.
The invention concerns an iron comprising a water reservoir (12), and a pump (15) comprising a mixing chamber (20) capable of sucking into the mixing chamber a dose of water and a dose of additive via an additive proportioning tap (34), so as to produce in the mixing chamber a diluted additive solution, and of conveying said solution towards a sprayer (16). The invention is characterized in that the pump (15) is of the piston type mobile in a body (18) and defining the mixing chamber (20) which emerges into the water reservoir (5) via a non-return valve, and said pump (15) also serves as additive proportioning tap (34).

What is claimed is:

1. An iron comprising:
   - a water reservoir (5);
   - an additive reservoir (12) containing a textile additive; and
   - a pump (15) comprising a mixing chamber (20), said pump being operable for aspirating into the mixing chamber (20) a dose of water from the water reservoir (5) as well as of additive from the additive reservoir (12) via a tap (34) for permitting dosing of the additive, in a manner to produce in the mixing chamber (20) a diluted solution of the additive, and said pump being operable for delivering the diluted solution toward a spraying device (16) situated in a forward part of the iron, wherein the pump (15), the additive reservoir (12) and the spraying device (16) constitute a unitary body that is removably mounted in the iron (1).

Key patent family concepts

- The Paris Convention and Priority
- Multinational applications
- 18 month publication
- Basic and Equivalent publications
- Patent Co-operation Treaty (PCT)
- European Patent Convention (EPC)
A simple patent family timeline


In this patent family example this PCT application is the DWPI Basic (slide 15).

European "PCT-Transfer": the PCT document is accepted as an EP application and assigned corresponding EP numbers/dates.
Patent family members: FR-A1

- **République Française**
- **Institut National de la Propriété Industrielle**
- **Paris**

**No de publication:** 2 804 137
**No d'enregistrement national:** 00 00874

**Date de dépôt:** 20.01.00.
**Demandeur(s):** MOULINEX S.A. anonyme — FR.
**Inventeur(s):** BOULEAU JEAN PAUL.

In this patent family example this French application is the Priority.


**United States**

**Patent Application Publication**

**Author:** Boucau

**Publication Classification**

- **Int. Cl.** 76/19
- **US. Cl.** 30/77.5

**Abstract**

The invention concerns an internal-combustion engine comprising a water reservoir (8), a fuel additive reservoir (12), and a pump (15) comprising a mixing chamber (20) capable of sucking into the mixing chamber a flow of water and a flow of additive via an additive proportioning valve (21). The mixing chamber is provided with a mixing chamber proportioning valve, and said pump (15) also serves as additive proportioning tap (34).

US Published Applications often do not include patent assignee information.

Derwent World Patents Index® on STN®

(12) United States Patent
Bouleau

(10) Patent No.: US 6,671,985 B2
(45) Date of Patent: Jan. 6, 2004

(54) IRON COMPRISING A PUMP FOR WATER/TEXTILE ADDITIVE MIXTURE

(75) Inventor: Jean-Paul Bouleau, Champsaur (FR)

(72) Assignor: SEB S.A., Ecully (FR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 9 days.

(21) Appl. No.: 10/181,472
(22) PCT Filed: Jan. 15, 2001
(46) PCT No.: PCT/FR01/00112
PCT Pub. No.: WO2001/35595
PCT Pub. Date: Jul. 18, 2002

(55) Prior Publication Data
US 6,030,646 A1 Mar. 27, 2000

(56) References Cited
U.S. PATENT DOCUMENTS

Note that the assignee is now SEB, and that both Moulinex and SEB are recorded in the DWPI record (slide 15).

Patent family members: EP-B1

Derwent World Patents Index® on STN®

Patent family members: EP-B1

(10) Patent No.: EP 248 876 B1
(11) EP 1 248 876 B1

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(12) FASCICULE DE BREVET EUROPEEN

(51) int. Cl.: D06F 7/04, D06F 7/06
(56) International Classification:
PCT/FR00/00112

(31) N° de dépôt: 01900945,2
(32) Date de dépôt: 18.01.2001

(54) IRON COMPRISING A PUMP

(64) Date de publication: 20.01.2003 FR 000874
(42) Date de publication de la demande:

(73) Titulaire: SEB S.A.
69130 Ecully (FR)

(74) Mandataire: Kehl, Hubert
SEB Développement,
69130 Ecully (FR)

In this example, this European Patent only designates France (FR) and Spain (ES).
Derwent World Patents Index® on STN®

Agenda

• Basic Topics
  – What is the Derwent Word Patents Index?
  – A tour through a typical database record
  – Searching DWPI on STN

• Advanced Topics
  – DWPI member-level search and display options
  – Chemical structure searching (DCR)
  – Related databases: WPIFV, LitAlert and PCI
  – Current awareness Alerts/SDIs
  – Post-processing results using STN Express

Searching DWPI on STN

• Basic STN commands
• Subject searching
  – Text searching
  – Classification Searching
• Bibliographic searching
  – Assignees & Inventors
  – Patent/application numbers
  – Dates & authorities
<table>
<thead>
<tr>
<th>Basic STN commands</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>File</strong></td>
<td>FILE WPINDEX</td>
</tr>
<tr>
<td><strong>Search</strong></td>
<td>S US /PC</td>
</tr>
<tr>
<td><strong>Expand</strong></td>
<td>E US 5000000 /PN; S E3</td>
</tr>
<tr>
<td><strong>SELECT</strong></td>
<td>SEL PN; D SEL; S E1-E5</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>D L1 BIB 1-</td>
</tr>
<tr>
<td></td>
<td>D L2 IBIB 1-5,22</td>
</tr>
<tr>
<td><strong>PRINT</strong></td>
<td>PRINT L3 1-5 IFULL EMAIL</td>
</tr>
</tbody>
</table>

**Basic STN commands (cont.)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HELP</strong></td>
<td>HELP COST; HELP DIR</td>
</tr>
<tr>
<td><strong>SET</strong></td>
<td>SET NOTICE; D SET</td>
</tr>
<tr>
<td><strong>D HIS</strong></td>
<td>D HIS FULL; D HIS NOFILE</td>
</tr>
<tr>
<td><strong>D COST</strong></td>
<td>D COST FULL</td>
</tr>
<tr>
<td><strong>LOGOFF</strong></td>
<td>LOG Y; LOG H</td>
</tr>
</tbody>
</table>

TIP: type commands in full for novice mode
DWPI text search tips

• Add plurals and DWPI abbreviations
  => SET PLURALS ON
  => SET ABBREVIATIONS ON

• Add English spelling variations
  – E.g. color/colour; diaper/nappy
  => SET SPELLINGS ON

• Use left and right truncation
  => S ?ANALY?

• Organize answer sets by relevance
  => FOCUS L1

• Include the Basic Index Extension (/BIEX)
  => SET SFIELDS BI BIEX

Abbreviations and plurals searching are customized to each STN file: DWPI terminology is used to search DWPI.
SET SPELLINGS automatically incorporates common English spelling variations from around the world into the search.

Left hand search term truncation.

KWIC is a useful low-cost display format for scanning DWPI search results.
The FOCUS command re-sorts the answer set by relevance.

BRIEF is a useful DWPI display format for reviewing answers.

DWPI enhanced abstract subsections offer precision searching options

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI</td>
<td>Enhanced Title</td>
<td>1963-</td>
</tr>
<tr>
<td>NOV</td>
<td>Novelty</td>
<td>1999-</td>
</tr>
<tr>
<td>DETD</td>
<td>Detailed Description</td>
<td>1999-</td>
</tr>
<tr>
<td>ACTN</td>
<td>Mechanism of Action</td>
<td>1999-</td>
</tr>
<tr>
<td>ACTV</td>
<td>Activity</td>
<td>1999-</td>
</tr>
<tr>
<td>ADV</td>
<td>Advantage</td>
<td>1984-</td>
</tr>
<tr>
<td>UADV</td>
<td>Use/Advantage</td>
<td>1984-</td>
</tr>
<tr>
<td>USE</td>
<td>Use</td>
<td>1984-</td>
</tr>
<tr>
<td>DRWD</td>
<td>Drawing Description</td>
<td>1999-</td>
</tr>
<tr>
<td>TECH</td>
<td>Technology Focus</td>
<td>1999-</td>
</tr>
</tbody>
</table>
Example: DWPI records concerning PDE4-Inhibitors from Pfizer

Use the /ACTN field to search the drug mechanism-of-action.

The DWPI enhanced abstract subsection fields are also available individually for customized displays.

The DWPI default Basic Index (/BI) is formed from value-added text fields

invention part
value-added text
Title, Abstract

members part
original text
Title, Abstract, Claim(s)
A search can be extended to include DWPI member level text with BIEX

- On STN it is possible to search DWPI value-added and original patent text separately or simultaneously
- Incorporating the Basic Index Extension (/BIEX) into a DWPI search can improve comprehensiveness

=> S OPTICAL(W)FIBRE AND CABLE
L1 19024 OPTICAL(W)FIBRE AND CABLE

=> SET SFIELDS BI BIEX PERM
SET COMMAND COMPLETED

=> S OPTICAL(W)FIBRE AND CABLE
L2 22297 OPTICAL(W)FIBRE/BI,BIEX AND CABLE/BI,BIEX

Popular DWPI display formats

- **D SCAN**: Random title (free)
- **D TRIAL**: Title (or Title Terms*) & codes (free)
- **D KWIC**: Keywords In Context
- **D BRIEF**: Title, assignee, abstract
- **D BIB**: Title, assignee, patent family
- **D FULLG**: BIB + Abstract(s), drawing image
- **D MEMBB**: Applicant title, abstract and claim(s); agent, assignee and inventor details

*The DWPI title is included free-of-charge in WPIDS/WPIX. Title Terms in WPINDEX.*

Note: indented (full field description) versions of several formats are available, e.g. IBIB, IFULLG. See HELP FORMAT for further details.
### Classification searching

- DWPI Classification (/DC)
- DWPI Manual Codes (/MC)
- International Patent Classification (/IPC)
- European Patent Classification (/EPC)
- USPTO National Classification (/NCL)
- Japanese Patent Office FI-Terms (/FCL)
- Japanese Patent Office F-Terms (/FTRM)


### DWPI Classification

- A broad classification system assigned by Thomson Reuters uniquely to DWPI
- 2 Level Hierarchy
- Top level split into 21 Sections (A-X)
- Searchable at two levels:
  - `=> S Q/DC` (Section Level)
  - `=> S Q18/DC` (Subsection Level)
- Expand /DC to see definition online
- DCs are searchable in DWPI back to 1970
DWPI Manual Codes

- An in-depth classification system assigned by Thomson Reuters uniquely to DWPI
- Covers basic patent publications in chemical/life science and engineering subject areas
- Chemical/life science codes (A-N) are only searchable in WPIDS/WPIX back to 1963
- Electrical/electronic codes (S-X) are searchable by all users of DWPI back to 1980
- More recently added Mechanical codes (Q), are searchable by all users of DWPI back to 2005

Example: Manual Code thesaurus

```
=> E W02-G03J1+ALL/MC

E1 508715 BT4 W02/MC  
E2 564 BT3 W02-G/MC  
E3 4088 BT2 W02-G03/MC  
E4 735 BT1 W02-G03J/MC  
E5 463 W02-G03J1/MC  
E6 1758 W02-G03E/MC  
E7 4878 W02-G03X/MC  
E8 325 W02-G03J1A/MC  
E9 33 W02-G03J1C/MC  
******** END ********
```

Broader Term (BT).

History Note (HNTE).

Related Term (RT).

Narrower Term (NT).

Search with relationship codes.
Why use classification?

• Search for vehicle antilock braking systems (ABS)

=> S (ANTILOCK? OR ANTI-LOCK?)(2W)BRAK? OR ABS

• Lots of irrelevant answers retrieved

Example: why use classification in DWPI?

=> S (ANTILOCK? OR ANTI-LOCK?)(2W)BRAK? OR ABS
L1 27515 (ANTILOCK? OR ANTI-LOCK?)(2W)BRAK?

=> S L1 AND (X22 OR Q18)/DC,MC
Q18 BRAKE SYSTEMS; STEERING SYSTEMS; CONTROL
X22 AUTOMOTIVE ELECTRICS

L2 7380 L1 AND (Q18 OR X22)/DC,MC

=> S L1 NOT L2
L3 20135 L10 NOT L11

=> D KWIC 1-
L3 ANSWER xx OF 20135 WPINDEX COPYRIGHT
TECH . . . The case structure of light emitting module is made of
acrylonitrile-butadiene-styrene (ABS) material.

L3 ANSWER xx OF 20135 WPINDEX COPYRIGHT 2010 THOMSON REUTERS on STN
TECH . . . protein is selected from ovalbumin, single chain antibodies
(Abs) and toxins. The carrier protein is an immunoglobulin . . .

L3 ANSWER xx OF 20135 WPINDEX COPYRIGHT 2010 THOMSON REUTERS on STN
NOV . . . follows the air bearing surface (ABS) of a return yoke (400).

Classification can help limit a text search to an appropriate area of technology.

In this example, the term 'ABS' is ambiguous; a problem that can be solved by using classifications.

Many false answers (L3) are avoided by using classification.
International Patent Classification

- In-depth classification assigned by patent offices around the world
- 5 level hierarchy covering all technologies
- Top level split into 8 sections (A-H)
- DWPI Format
  - ANNA-NNNN/NNN /IPC
- STN format
  - ANNANNNN-NNN /IPC
- IPCs are searchable in DWPI back to 1963

Example: Searching IPC codes (/IPC)

=> FILE WPINDEX
=> S B23K/IPC
  L1 195886 B23K/IPC
=> S B23K0026/IPC
  L2 38670 B23K0026/IPC
=> S B23K0026-20/IPC
  L3 5364 B23K0026-20/IPC
=> S B23K0026-20+NT/IPC
  L4 6993 B23K0026-20+NT/IPC (7 TERMS)
  D L4 IPC 1,9,16

L4 ANSWER 1 OF 6993 WPINDEX COPYRIGHT 2011 THOMSON REUTERS on STN
IPCI B23K0026-20 [I,A]

L4 ANSWER 9 OF 6993 WPINDEX COPYRIGHT 2011
IPCI B23K0026-06 [I,A]; B23K0026-32 [I,A]

L4 ANSWER 16 OF 6993 WPINDEX COPYRIGHT 2011
IPCI B23K0026-22 [I,A]; B23P0019-04 [I,A]; B23P0023-04 [I,A]
Example: IPC classification thesaurus

Extensive Classification Thesauri options in DWPI allow you to quickly identify classification symbols.

Enter HELP THESAURUS and HELP RCODE at the STN prompt (=>) in WPINDEX to learn more.

Searching DWPI on STN

- Basic STN commands
- Subject searching
  - Text searching
  - Classification Searching
- Bibliographic searching
  - Assignees & Inventors
  - Patent/application numbers
  - Dates & authorities
Patent Assignees (PA) and Codes (PACO)

- Basic standardization of original names (/PA)
  - 50+ years of standardization
- 21,000+ standard assignee codes (/PACO)
  - Including codes for Japanese assignee names
- Patent Assignee Codes printed manual
- Web look-up facility (link below)
- STN online thesaurus

**Patent Assignee Codes Lookup Facility:**
http://scientific.thomsonreuters.com/support/patents/dwpiref/reftools/companycodes/lookup/

Example: Patent Assignees (/PA)

```plaintext
=> E APPLE /PA 25
E1  2    APPLE PHYSICS PROBL/PA
E2  1    APPLE TECHN ASSOC I/PA
E3  4468 --〉APPLE/PA
E4  1    APPLE ADHESIVES/PA
E5  1    APPLE ARCHERY PROD LLC/PA
E6  1    APPLE BLOSSOM LLC/PA
E7  2    APPLE C I/PA
E8  1    APPLE CAR SALES KK/PA
E9  1    APPLE CO LTD/PA
E10 1    APPLE COMPUTER CO LTD/PA
E11 9    APPLE COMPUTER CORP/PA
E12 1    APPLE COMPUTER FRAN/PA
E13 1    APPLE COMPUTER FRANCE SARL/PA
E14 2310  APPLE COMPUTER INC/PA
E15 1    APPLE COMPUTER INC A CALIFORNIA/PA
E16 4    APPLE COMPUTER LTD/PA
E17 1    APPLE COMPUTER US/PA
E18 11   APPLE COMPUTERS INC/PA
E19 4    APPLE CORP/PA
E20 1    APPLE CORP KK/PA
E21 3    APPLE CORP TECHNOLOGIES INC/PA
E22 1    APPLE CORP TG/PA
```

Here we are use Expand to look for DWPI patent family records assigned to Apple (of iPod® fame).

Browse Patent Assignee name variations using the EXPAND command.
### Example: Patent Assignees (/PA) (cont.)

```plaintext
=> E 25
E26 2 APPLE DYNAMICS INTELLECTUAL PROPERTY LTD/PA
E27 2 APPLE E G/PA
E28 4 APPLE ENG LTD/PA
E29 1 APPLE ESSENCE CO LTD/PA
E30 1 APPLE G D/PA
E31 1 APPLE G L/PA
E32 1 APPLE H C/PA
E33 1 APPLE H P/PA
E34 1 APPLE HOUSE ELECTRONICS LTD/PA
E35 2372 APPLE INC/PA
E36 5 APPLE IRYO KIKI KK/PA
E37 2 APPLE J/PA
E38 1 APPLE J A/PA
E39 1 APPLE J L/PA
E40 1 APPLE J R/PA
E41 5 APPLE JU STUDIO INC/PA
E42 1 APPLE KENSETSU KK/PA
E43 11 APPLE KK/PA
E44 2 APPLE L/PA
E45 1 APPLE M/PA
. . . .
```

Browse Patent Assignee name variations using the EXPAND command.

### Example: Patent Assignees (/PA) (cont.)

```plaintext
=> S E9-E22,E35
L1 4308 "APPLE CO LTD"/PA OR "APPLE COMPUTER CO LTD"/PA OR "APPLE COMPUTER CORP"/PA OR . . . "APPLE CORP"/PA OR "APPLE CORP KK"/PA OR "APPLE CORP TECHNOLOGIES INC"/PA OR "APPLE INC"/PA OR "APPLE INC - YG"/PA OR "APPLE INC"/PA)

=> D BIB
L1 ANSWER 1 OF 4308 WPINDEX COPYRIGHT 2010 THOMSON REUTERS on STN
AN 2010-K30625 [201055] WPINDEX
TI Method for providing emergency call within network i.e. third
generation partnership project internet protocol multimedia core
network sub-system compliant cellular network, involves transmitting
composite stream via session
DC T01; W01
IN HANS M
PA (APFY-C) APPLE INC; (HANS-I) HANS M
CYC 125
PIA US 20100202368 A1 20100812 (201055)* EN 26[6]
WO 2010093646 A1 20100819 (201055) EN
2010-US23680 20100209
PRAI US 2009-368947 20090210
```

Search items of interest from the EXPAND list.
Example: Patent Assignee Codes (PACO)

Example: PACO (cont.)

Example: Patent Assignee Codes (PACO)

Example: PACO (cont.)
Example: PACO (cont.)

=> S L1 NOT L2
L3 10 L1 NOT L2
=> D TI PA PN

10 additional documents (L3) were retrieved in the name search (L1).

L3 ANSWER 1 OF 10 WPINDEX COPYRIGHT 2010 THOMSON REUTERS on STN
TI Connector for mannequin
PA (APPL-N) APPLE CORP
PI TW 323855 U 20071221 (200966)* ZH 0

The 10 records come from an unrelated Apple company.

=> S L2 NOT L1
L4 1 L2 NOT L1
=> D TI PA PN

We also missed one relevant document (L4) not found in the name search (L1).

L4 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2010
TI Operand permutation with replication performing method in vector register file for multimedia and scientific computing
PA (APPL-C) APPLE; (IBMC-C) IBM CORP; (MOTI-C) MOTOROLA INC
PI US 5996057 A 19991130 (200006)* EN 11[8]

Searching with Patent Assignee Codes is typically more precise and more comprehensive.

Patent Assignee Codes

• Standard versus Non-Standard

  • STANDARDAAAA-C
  • NON-STANDARDAAAA-N
  • SOVIET INSTITUTESAAAA-R
  • INDIVIDUALSAAAA-I

Do not use non-standard codes for searching!
Searching for Inventors

- Inventors /IN (or /AU)
- Inventors from the DWPI basic document
- Available from 1978
- Surname Initials format, e.g. SMITH J/IN
- Inventors (/IN) for Japanese documents are included from June 2005 onwards

Note: full non-standardized inventor names are searchable for US, EP, DE, WO and JP family members in the Inventor Original (/INO) field.

Example: Inventor search (/IN)

Here we are using Expand to look for the inventor Jason Smith, using surname and initial letter, in the standardized inventor (/IN) field.

Unfortunately, there are rather a lot of hits for “John Smith”!
Example: Inventor Original search (/INO)

=> E SMITH JASON/INO 5
E1 3 SMITH JARRED/INO
E2 1 SMITH JARRED A/INO
E3 29 --> SMITH JASON/INO
E4 17 SMITH JASON A/INO
E5 2 SMITH JASON ALAN/INO

=> S E3
L2 29 "SMITH JASON"/INO

=> D AN TI IN INO
L2 ANSWER 1 OF 29 WPINDEX COPYRIGHT 2010 THOMSON REUTERS on STN
AN 2010-064546 (201054) WPINDEX
TI After-market container or carrier for use in golf cart for sequential
dispensing of golf ball has fasteners connecting first and second
mating members in engaged relation
IN SMITH J

Note: although useful, the INO field is only available for a restricted list
of patent authorities (see slide 44).

Numbers and Dates

• Publication Numbers and dates (PN, PD)
  => S EP1116932/PN
  => S 20010718/PD

• Application Numbers and dates (AP, AD)
  => S EP2000-126646/AP
  => S 20001205/AD

• Priority Numbers and dates (PRN, PRD)
  => S US2000-176284/PRN
  => S 20000114/PRD
Publication numbers (PN)

- STN has automatic search edits to handle many common formats, e.g. with commas or slashes
- Take out any periods and the publication kind code; include the 2-digit country code prefix
- Continuous series
  - Search U.S. 4,718,426 A, as => S US 4,718,426/PN
- Annual series
  - Search WO 99/12345 A1, as => S WO 99/12345/PN
  - Search WO 03/04255 A2, as => S WO 03/04255/PN

Application and priority numbers (AP, PRN)

- Take out all commas, slashes, periods, suffixes and prefixes (including U.S. series); use the 2-digit country code prefix, and application year
- United States application 9/101,138 2000
  => S US2000-101138/AP
- US provisional application (series 60 and 61) priority numbers have a P appended, e.g.
  => S US2003-440129P/PRN
- Coverage of application numbers (AP) is complete from DWPI update 199216 onwards
  - Supplementary numbers (APTS) may be available
Example: supplementary application numbers

| L1 | S US1991-654468/AP |

Additional application numbers absent from /AP may be available in the /APTS field for many older DWPI records.

Example: supplementary application numbers

| L1 | ANSWER 1 OF 1 WPINDEX COPYRIGHT 2012 THOMSON REUTERS on STN |
| L2 | Cooling of thermoplastic film - by blowing cooling air with continuously changing wind speed onto surface of casting drum through deceleration filter which covers exhaust |
| L3 | Invention by OSHIMA Y; TOU K |
| L4 | Patent by FUJI PHOTO FILM CO LTD |
| L5 | A32 |

SET PATENT

- Patent, application & priority numbers are searchable in STN or DWPI formats
  
  => S US2000-101138/AP (STN)
  
  => S 2000US-101138/AP (DWPI old)
  
  => S 2000US-000101138/AP (DWPI new)

- SET PATENT DERWENT changes the display to the DWPI format, e.g.
  

- SET PATENT STN to change back
Patent Family Search (FSEARCH)

• Use to locate additional records containing related patents from an extended family
• Determine the extended protection for a technology worldwide
• Iteratively searches AP, PRN and PNs
• Can be used in a multifile environment
• FSEARCH ends with FSORT

Extended patent families

<table>
<thead>
<tr>
<th>FAMILY P1</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Document D1</td>
<td>Priority P1</td>
<td></td>
</tr>
<tr>
<td>Document D2</td>
<td>Priority P1</td>
<td>Priority P2</td>
</tr>
<tr>
<td>Document D3</td>
<td>Priority P1</td>
<td>Priority P2</td>
</tr>
<tr>
<td>Document D4</td>
<td></td>
<td>Priority P2</td>
</tr>
<tr>
<td>Document D5</td>
<td></td>
<td>Priority P3</td>
</tr>
</tbody>
</table>

Publication order.
Example: FSEARCH retrieves extended families

```plaintext
=> S US2002011990/PN
   L1   1 US2002011990/PN

=> FSEARCH L1
*** ITERATION 1 ***
SEL L1 1- PN,APPS
L2 SEL L1 1- PN APPS : 28 TERMS
SEA L2
L3 11 L2

*** ITERATION 2 ***
SEL L3 1- PN,APPS
L2 SEL L1 1- PN APPS : 104 TERMS
SEA L2
L3 11 L2
FSORT L3
L4 11 FSO L3

1 Multi-record Family      Answers 1-11
0 Individual Records
0 Non-patent Records
```

In this example, the extended patent family is represented by 11 separate DWPI records.

DWPI Accession Numbers

- The DWPI Record number
  => S 2001-169196/AN
- Display records directly with D ACC
  => D ACC 2001-169196 IFULLG
- Display a continuous list with D ANL
  => D L2 ANL 1-100
Date fields and examples

- **Publication Date (PD)**: \( \Rightarrow S \text{ MAY 2004/PD} \)
- **Publication Year (PY)**: \( \Rightarrow S \text{ 1998 - 1999/PY} \)
- **Publication Date Basic**: \( \Rightarrow S \text{ JAN - FEB 2007/PD.B} \)
- **Publication Year Basic**: \( \Rightarrow S \text{ PY.B > 2000} \)
- **Application Date (AD)**: \( \Rightarrow S \text{ MARCH 1993/AD} \)
- **Application Year (AY)**: \( \Rightarrow S \text{ AY < 1991} \)
- **Priority Date (PRD)**: \( \Rightarrow S \text{ APRIL 1, 1995/PRD} \)
- **Priority Year (PRY)**: \( \Rightarrow S \text{ 1987/PRY} \)
- **Priority Date First**: \( \Rightarrow S \text{ 19780401/PRDF} \)
- **Priority Year First**: \( \Rightarrow S \text{ PRYF >= 1975} \)

Country (authority) fields and examples

- **Publication Country (PC)**: \( \Rightarrow S \text{ US/PC} \)
- **Publication Country Basic**: \( \Rightarrow S \text{ WO/PC.B} \)
- **Publication Kind (PK)**: \( \Rightarrow S \text{ USB2/PK} \)
- **Publication Kind Basic**: \( \Rightarrow S \text{ EPA1/PK.B} \)
- **Application Country (AC)**: \( \Rightarrow S \text{ GERMANY/AC} \)
- **Priority Country (PRC)**: \( \Rightarrow S \text{ DE/PRC} \)
- **Designated States**: \( \Rightarrow S \text{ GB/DS} \)
- **Same family member**: \( \Rightarrow S \text{ EPB1/PK (P) 1998/PY} \)

For details of publication kind (PK) covered in Derwent World Patents Index (DWPI) type **HELP KIND** and the STN prompt (\( \Rightarrow \)).
**STN analysis tools**

- Statistical analysis of patent information
  - Evaluate freedom-to-operate, competitive analysis
- STN offers standard 2-D and 3-D options for analyzing patent search results in DWPI
  - STN command line options
    - STN ANALYZE and TABULATE commands
    - Multiple fields can be analyzed simultaneously
  - Menu driven STN Express Wizards
    - Efficient data export and charting in MS Excel
- STN® AnaVist™ for powerful interactive analysis and visualization of DWPI on STN search results

---

### Example: ANALYZE command

```plaintext
=> S HIV PROTEASE INHIBITOR
L1 670 HIV PROTEASE INHIBITOR

=> ANALYZE L1
ENTER ANSWER NUMBER OR RANGE (1-): 1-
ENTER DISPLAY CODE (TI) OR ?:PAX PY.B
L2 ANALYZE L1 1- PAX PY.B :

=> D PAX TOP 8
L2 ANALYZE L1 1- PAX PY.B :

TERM # # OCC # DOC % DOC PAX PY.B
------- ------- ------- ------- --------------------------
 1     137  137  20.45 (MERI-C) MERCK & CO INC
 2      75    75  11.21 (ABBO-C) ABBOTT LAB
 3      41    41   6.20 (SEAR-C) SEARLE & CO G D
 4      36    36   5.44 (GUHA-N) GOUROUON PHARM INC
 5      25    25   3.73 (AGOU-N) AGOURON PHARM INC
 6      20    20   3.06 (BRIM-C) BRISTOL-MYERS SQUIBB CO
 7      19    19   2.84 (DUFO-C) DUPONT PHARM CO
 8      18    18   2.69 (DUFO-C) DUPONT PHARM CO
 9      17    17   2.54 (KANF-C) KANEKA CORP
```

- **ANALYZE multiple fields for the same fixed ANALYZE fee.**
- **PAX = Assignee Name + Code.**
- **PY.B = Basic Publication Year.**
- **Display PAX analysis results.**
Example: ANALYZE command (cont.)

```sql
=> D PY.B ALPHA 1-
   L2
   ANALYZE L1 1- PAX PY.B :

<table>
<thead>
<tr>
<th>TERM #</th>
<th># OCC</th>
<th># DOC</th>
<th>% DOC</th>
<th>PAX PY.B</th>
</tr>
</thead>
<tbody>
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<td>711</td>
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<td>0.30</td>
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<td>4</td>
<td>0.60</td>
<td>1990</td>
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<td>10</td>
<td>1.49</td>
<td>1991</td>
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<td>3.88</td>
<td>1992</td>
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<td>715</td>
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<td>21</td>
<td>3.13</td>
<td>1993</td>
</tr>
<tr>
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<td>29</td>
<td>4.33</td>
<td>1994</td>
</tr>
<tr>
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<td>38</td>
<td>5.67</td>
<td>1995</td>
</tr>
<tr>
<td>718</td>
<td>58</td>
<td>58</td>
<td>8.66</td>
<td>1996</td>
</tr>
<tr>
<td>719</td>
<td>47</td>
<td>47</td>
<td>7.01</td>
<td>1997</td>
</tr>
<tr>
<td>720</td>
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<td>48</td>
<td>7.16</td>
<td>1998</td>
</tr>
<tr>
<td>721</td>
<td>46</td>
<td>46</td>
<td>6.87</td>
<td>1999</td>
</tr>
<tr>
<td>722</td>
<td>47</td>
<td>47</td>
<td>7.01</td>
<td>2000</td>
</tr>
<tr>
<td>723</td>
<td>47</td>
<td>47</td>
<td>7.01</td>
<td>2001</td>
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<td>724</td>
<td>61</td>
<td>61</td>
<td>9.10</td>
<td>2002</td>
</tr>
<tr>
<td>725</td>
<td>93</td>
<td>93</td>
<td>13.88</td>
<td>2003</td>
</tr>
<tr>
<td>726</td>
<td>75</td>
<td>75</td>
<td>11.19</td>
<td>2004</td>
</tr>
<tr>
<td>727</td>
<td>18</td>
<td>18</td>
<td>2.69</td>
<td>2005</td>
</tr>
</tbody>
</table>

******** END OF L2 ********
```

STN AnaVist provides enhanced highlighting and labeling capabilities

STN AnaVist allows assigning different colors to concepts for easier comparisons and visualization of trends.

To learn more about STN AnaVist, visit:
Agenda

• Basic Topics
  – What is the Derwent Word Patents Index (DWPI℠)?
  – A tour through a typical database record
  – Searching DWPI on STN

• Advanced Topics
  – DWPI member-level search and display options
  – Japanese patents in DWPI
  – DWPI Chemistry Resource (DCR)
  – Current awareness Alerts/SDIs
  – Derwent Patents Citation Index (DPCI)
  – Post-processing results using STN Express

DWPI member-level search and display options

• DWPI records have two parts – invention (family) and members (publications)
• The invention part comprises value-added DWPI content – patent family, abstract, etc
• The members part provides additional content and search options for members (publications) listed in the invention part
• Both parts can be searched or displayed separately or in combination
DWPI members (publication) part data provides additional search options

- Original titles, abstracts and claim(s)
- Full inventor names and addresses
- Original assignee names and addresses
- Attorney/agent names and addresses
- Application and priority number backfile

Member (publication) data can be displayed using individual fields, e.g. Claims-in-English (CLMEN), or the Member (MEMB), Member Brief (MEMBB) and Member Full (MEMBF) formats. Note that Member data is not included in Invention displays such as ALL, FULL, MAX, etc.

Examples: making the most of DWPI member-level search and display options

- Example 1: comprehensive company search
  - Find additional records using Agent (/AG) data
- Example 2: searching in DWPI patent claim text
  - Find records with terms in claims (/CLM) text
1. Find additional records using agent data

=> S SYNGENTA/PA, AG OR SYGN/PACO
L1 2243 SYNGENTA/PA, AG OR SYGN-C/PACO

=> D BIB AG
L1 ANSWER ... OF ... WPINDEX COPYRIGHT 2012 THOMSON REUTERS on STN
AN 2011-B43353 [201113] WPINDEX
TI Producing transgenic plant with improved drought tolerance, by introducing expression cassette into plant cell comprising polynucleotide operably linked to drought inducible regulatory element and regenerating transgenic plant
DC CO6; D16; P13
IN CHEN X; GUO L; LAWTON K A; RYALS J A
PA (CHEN-I) CHEN X; (GUOL-I) GUO L; (LAWT-I) LAWTON K A; (RYAL-I) RYALS J A

This record would not have been retrieved without using the AG field.

(L)-proximity can be used for precision searches within individual family members

INVENTION /DLVL* value-added data

PUBLICATION /DLVL original member data

DLVL = Document Level. Options are INVENTION /DLVL or PUBLICATION /DLVL
2. Find records with terms in the claims text

=> S KR/PC (P) 2011-2012/PY
L1 332809 KR/PC (P) 2011-2012/PY

=> S L1 (L) (ANTI?(1T)?CANCER? OR ?TUMOR? OR ?NEOPLAS?) OR CYTOSTATIC)/CLM
L2 573 L1 (L) (ANTI?(1T)?CANCER? OR ?TUMOR? OR ?NEOPLAS?) OR CYTOSTATIC)/CLM

=> D BIB CLM
L2 ANSWER ... OF 573 WPINDEX COPYRIGHT 2011-M58386 [201169] WPINDEX
TI New double-stranded micro RNA useful in drug formulation for treating cancer, comprises miR-542-3p containing specific base pair sequence
DC B04; D16
IN BAEK K; CHOI Y C; YOON J; YOON S
PA (UYKY-C) UNIV KYUNGHEE IND COOP
Cyc 1
PIA KR 2011105063 A 20110926 (201169)* KO 13[3]
ADT KR 2011105063 A KR 2010-24096 20100318
PRAI KR 2010-24096 20100318

Tip: Use (L)-proximity to focus search terms of interest to the Korean patent claims (CLM) (L2).

Tip: searching anti?(1T)?cancer? retrieves, e.g. both anticancer and anti-cancer, in one search step.

Find records with terms in the claims text (cont.)

Member(0001)
CLMEN KR 2011105063 A UFCL 20111027
[CLAIM 1] The double-strand miRNA in which RNA having the base sequence it thus non-continuouses of the miR-542-3 p (sequence number 1) and sequence number 2 are combined.

[CLAIM 2] The anti-cancer drug which has the double-strand miRNA including the miR-542-3 p (sequence number 1) to the single strand as the active ingredient; and includes the pharmaceutically allowed carrier of claim 1, wherein it is disclosed.

[CLAIM 3] As for claim 2 It has the formulation selected from group comprised of the capsule, liquor, refinement, granule, injection, gel agent and transdermal absorption adhesive of one kind. Anti-cancer drug.

[CLAIM 4] The anti-cancer drug including the carrier which has the double-strand miRNA in which RNA having the base sequence it thus non-continuouses of the miR-542-3 p (sequence number 1) and sequence number 2 are combined as the active ingredient; and is pharmaceutically allowed.
Japanese patents in DWPI

- Japanese patent terminology
- Subject coverage
- Patent number formats
- Publication kind codes
- Some Examples

Japanese patent terminology

- Kokai = unexamined application (JP-A)
- Kokoku = examined application (old law JP-B)
- Toroku = granted patent (new law JP-B)

Japanese subject coverage

- **Kokai (JP-A)**
  - 1971 Chemical/Life Science (CPI)
  - 1982 Electrical/Electronics (IPC Section H)
  - 1996 All Technologies

- **Kokoku/Toroku (JP-B)**
  - 1963 Chemical/Life Science (CPI)
  - 1999 All Technologies*

* Complete coverage of non-CPI JP-B basic patents began in 8/2004

Japanese publication numbers

- **Kokai (JP-A)**
  - JPEENNNNNNN/PN (to 12/1999)
  - JPYYYYNNNNNN/PN (from 01/2000)
  - EE = Emperor’s Year*; YYYY = Western year

- **Kokoku (old law JP-B)**
  - JPEENNNNNN B/PN (to 03/1996)

- **Toroku (new law JP-B)**
  - JPNNNNNNN B/PN (from 05/1996)

* Hirohito 01 to 63 = 1926-1988, and Akihito 01 to 11 = 1989-1999
Japanese Publication Kind codes

**DWPI**
- JPA
  - Kokai
- JPB1
  - Toroku (no JP-A)
- JPB
  - Kokoku* to 199403
- JPB2
  - Kokoku* (199404-199618)
  - Toroku (from 199626)

**INPADOC**
- JPA
  - Kokai
- JPB1
  - Toroku (no JP-A)
- JPB
  - Kokoku
- JPB2
  - Toroku

Example: modern JP-A (Kokai)

From 2000 Kokai use a western (Gregorian) year.
Example: pre-2000 JP-A (Kokai)

Example: old law JP-B (Kokoku)

Pre-2000 Kokai used the Emperor's year.
E.g. 11 = 1999

Old law Kokoku used the Emperor's year.
E.g. 06 = 1994
**DWPI Chemistry Resource (DCR)**

- Integrated specific compound database for patent records in DWPI on STN
- Chemical structures and substance data
- Standard STN structure searching
- DCR numbers form the connection to and from DWPI patent records

**DWPI Chemistry Resource (DCR) coverage**

- Specific chemical substances indexed by Thomson Reuters Analysts for patents in DWPI
- DWPI patents classified in Pharmaceutical (B), agrochemical (C) and/or general chemical (E)
- Comprehensive coverage began in 4/1999*
- Selective coverage for approximately
  - 20,000 substances from 1/1987 to date
  - 2,100 substances from 7/1981 to date

* Except Japanese patents which are covered from 9/2000 onwards.
DCR structure search options

- Substructure (SSS) (default)
- Closed Substructure (CSS)
- Family (FAM)
- Exact (EXA)
- SAMPLE search (default) is available
- BATCH and SUBSET options are also available
- See HELP COST for pricing details

The basic steps for running a DCR structure search in DWPI on STN
1. Draw & save the structure query in standard STN format with STN Express
2. Upload the structure query to DWPI on STN
3. Run the structure search, e.g. \texttt{S L1 SSS FULL}
4. Retrieve DWPI patent records, e.g. \texttt{S L2 /DCR}
5. Display the patent records in-context with hit structures, e.g. \texttt{D L3 1- FULL HITSTR}
DCR structure search example

**Search Question:**
Search for DWPI patent references to specific carbapenem derivatives of substructure (I)

1. Draw & save the structure query in standard STN format using STN Express
2. Upload the structure query to DWPI on STN.

Upload the query with the 'Q' button.

3. Run the structure search.

The uploaded structure query (L1).

Option: display the query (L1), to verify that the Upload was successful.

Run a full file substructure search using the uploaded query (L1).

790 compounds are retrieved (L2).
The effectiveness of the search can be assessed by reviewing some answers, e.g. using the free-of-charge D SCAN format.

305 DWPI patent family records are retrieved (L3).

The Hit Structure (HITSTR) display is useful for reviewing in-context results following a chemical structure search.
Option: DCR searches can also be refined using a series of DCR Number Roles

• DCR Number Roles help describe the context of an indexed compound within the patent, e.g.
  – compound is prepared, purified or part of a mixture
  – compound is claimed or from the examples

• Use the (T)-Term proximity operator to refine DCR searches DCR Number Roles
  – For example: => S L2 /DCR (T) PRD/DCR
  – Where PRD = the Produced (synthesized) Role

See HELP ROLES in DWPI on STN (file WPINDEX/WPIDS/WPIX) for more information on effective searching using DCR Number Roles.

Example: refine the search with Roles

=> S L2/DCR(T) PRD/DCR
L4 80 L2/DCR(T) PRD/DCR
=> D TI PA PN IT HITSTR

The Hit Structure (HITSTR) display is useful for reviewing in-context results following a chemical structure search.
**DCR display formats**

- **D SCAN*** Names, formula & structure (random)
- **D TRIAL*** Names, formula & structure
- **D STD** Number, Names, formula & structure
- **D ALL** STD + RIN, DCN and DRN numbers
- **D MAX** ALL + DDRN, CT and SS data
- **D ISTD** STD indented with text labels
- **D IALL** ALL indented with text labels
- **D IMAX** MAX indented with text labels

* Free-of-charge display formats in WPINDEX/WPIDS/WPIX.

---

**Current awareness searches**

- Stay up-to-date with general R&D trends and your competitor’s specific patenting activities
- Monitor your competitors patent families, e.g. tracking when US or EP patents are granted
- Keep a look out for potential infringement of your employer’s intellectual property rights
- Current awareness search = Alert = profile = Selective Dissemination of Information (SDI)
Using the SDI command

L1 1733 (A63C017-04 OR A63C017-06 OR A63C017-08 OR A63C017-14)/IC OR INLINE SKATE OR ROLLERBLADE => SDI

Prepare the search query and type SDI.

ENTER QUERY L# FOR SDI REQUEST OR (END): L1
ENTER UPDATE FIELD CODE (UP) OR ?: UP
ENTER SDI REQUEST NAME, (AA001/S), OR END: INLINE/S
ENTER COST CENTER (NONE) OR NONE:.
ENTER TITLE (NONE): INLINE SKATES
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL: EMAIL
ENTER EMAIL ID (4209K): ROBERT.AUSTIN@FIZ-KARLSRUHE.DE
ROBERT.AUSTIN@FIZ-KARLSRUHE.DE
RECEIVE DELIVERY NOTIFICATION? (Y)/N: Y
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN? (Y)/N: Y
HIGHLIGHT HIT TERMS? (Y)/N:.
ARCHIVE ANSWERS? Y/(N):.
REDISTRIBUTE ANSWERS? Y/(N):.
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER SORT SDI ANSWER SET (N)/Y?:.
SEND SDI WITH NO ANSWERS? (Y)/N:.
ENTER SDI RUN FREQUENCY - (EVERYUPDATE), WEEKLY, MONTHLY, OR ?: WEEKLY
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):.
QUERY L1 HAS BEEN SAVED AS SDI REQUEST 'INLINE/S'

Select an appropriate update code (next slide).

An STNMAIL ID must be set up to be able to use the EMAIL option.

Accept default answers (in parentheses) with a period.

Which DWPI update code?

<table>
<thead>
<tr>
<th>Use...</th>
<th>When searching for...</th>
</tr>
</thead>
<tbody>
<tr>
<td>/ED</td>
<td>New records = new basic patents</td>
</tr>
<tr>
<td>/UPEQ</td>
<td>Records with new equivalent patents</td>
</tr>
<tr>
<td>/UPP</td>
<td>New records and/or new equivalent patents</td>
</tr>
<tr>
<td>/UP</td>
<td>Any updates, changes or corrections</td>
</tr>
</tbody>
</table>

UPP can be linked with search terms using the (P) operator.
### Reviewing SDIs

<table>
<thead>
<tr>
<th>NAME</th>
<th>CREATED</th>
<th>NOTES/TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INLINE/S</td>
<td>12 SEP 2008</td>
<td>SDI REQUEST FOR FILE WPINDEX</td>
</tr>
<tr>
<td>INLINE SKATES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To see the search query:

=> D INLINE/S FULL

COST CENTER                   NONE
UPDATE QUALIFIER              UP
METHOD OF DELIVERY            EMAIL
EMAIL ID(S)                   ROBERT.AUSTIN@FIZ-K.COM
NOTIFICATION                  YES
PRINT FORMAT                  IFULLG
MAXIMUM NUMBER OF HITS TO BE PRINTED 100
HIGHLIGHTING                  YES
DUPLICATE ELIMINATION         YES
PRINT FILE BACKGROUND         NO
SEND SDI WITH NO ANSWERS      YES
SDI RUN FREQUENCY             EVERYUPDATE
DISPLAY QUERY WITH RESULTS    YES

Use the SDI EDIT command update options, e.g. updating an email address.

### Receiving SDI results via e-mail

If email delivery is specified, an email like this one appears regularly in your email inbox.

Download the SDI results in your preferred data format. The links remain active for 90 days.

RTF and PDF formats include patent drawings (image files).
An email SDI result in RTF format

WPINDEX patent drawing (Graphic Image) is included in the IFULLG format.

Patent family linked SDIs

- Patent family SDIs for tracking any document type additions can be set-up using UPP
- Alternatively specific document type additions to families can be tracked using linked SDIs

=> QUERY terms of interest (P) UPP/LAST
   Example: QUE EPB# /PK (P) UPP/LAST

=> SDI
   Update code: UPP
   Eliminate previously seen answers: N
Example: Patent family linked SDIs

**Search request:** Monitor SONY patents which have recently been granted in Europe.

**Step 1:** Search for SONY as a patent assignee  
**Step 2:** Search for EP patents  
**Step 3:** Set-up an automatic SDI using appropriate linked DWPI update codes

---

Example: Set-up a SDI to monitor EP patents being granted to Sony

```  
=> QUE SONY/PACO AND EPB#/PK (P) UPP/LAST  
L1 QUE SONY-C/PACO AND EPB#/PK (P) UPP/LAST  
=> SDI

ENTER QUERY L# FOR SDI REQUEST OR (END): L1  
ENTER UPDATE FIELD CODE (UP) OR ?: UPP  
ENTER SDI REQUEST NAME, (AA001/S), OR END: SONY/S  
ENTER COST CENTER (NONE) OR NONE: LEGAL  
ENTER TITLE (NONE): SONY EP GRANTED  
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL: EMAIL  
ENTER EMAIL ID (4462K): ROBERT.AUSTIN@FIZ-KARLSRUHE.DE  
ROBERT.AUSTIN@FIZ-KARLSRUHE.DE  
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN? Y/(N): N  
Enter PRINT FORMAT (STD) OR ?: BIB  
. . . .  
ENTER SDI RUN FREQUENCY - WEEKLY, (EVERYUPDATE), MONTHLY, OR ?: WEEKLY  
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE): .  
QUERY L3 HAS BEEN SAVED AS SDI REQUEST 'SONY/S'  
```
Example: Set-up a SDI to monitor EP patents being granted to Sony (cont.)

In this SDI run 6 Sony families were updated with an EP patent.

The linked SDI gives more precise answers

Query linked SDI:
S Sony/PACO and EB#/PK (P) UPP/LAST
SDI update code: UPP
SDI results for run 39:
6 answer sets

Query normal SDI:
S Sony/PACO and EB#/PK
SDI update code: UPP
SDI results for run 39:
21 answer sets

False drop from normal SDI.
Derwent Patents Citation Index

- DPCI is the companion citation search database for Derwent World Patents Index (DWPI)
- Citations from 10 authorities:
  - US, WO, EP, JP, DE, GB, BE, ES, FR, NL, CN, CZ, LX, MY
- Up-to-date family data from DWPI
- Coverage dates back to 1973
- Weekly updates


Patent citations appear on the front page of USPTO issued (granted) patents

What are cited and citing patents?

Cited (older patents)  |  Citing (more recent patents)
---|---
Master Patent

Time
The DPCI record structure consists of three parts:

1. The master patent family
2. Cited patents and cited literature
3. Citing patents

DPCI record: Master DWPI family

- **L1** ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
- **AN** 1996-139581 [14] DPCI
- **TI** Variable-volume bottle for carbonated drink - has pleated side walls and inner retainer in two sections to hold bottle in compressed state
- **IN** DEMEESTER J H M; DEMEESTER J; DEMEESTER M; DEMMESTER J H M; HONORE J; VATELOT Y
- **PA** (DEME-I) DEMEESTER J; (DEMM-I) DEMMESTER J H M; (HONO-I) HONORE J; (DEME-I) DEMEESTER M; (VATE-I) VATELOT Y; (DEME-I) DEMEESTER J H M
- **PI** WO 9605114 A1 19960222 (199614)* FR 45[23]
  - EP 775072 A1 19970528 (199726) FR
  - EP 775072 B1 19981125 (199851) FR
- **PRAI** FR 1995-271 19950111 FR 1994-9910 19940810

*EP 775072 (master family)*
### DPCI record: Cited Patents (CDP)

<table>
<thead>
<tr>
<th>CDP</th>
<th>Cited Patents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Patent</td>
<td>By</td>
</tr>
<tr>
<td>------</td>
<td>-----</td>
</tr>
<tr>
<td>EP 775072 B1</td>
<td>Ex</td>
</tr>
<tr>
<td>PA:</td>
<td>(COOP-I)</td>
</tr>
<tr>
<td>IN:</td>
<td>COOPER L</td>
</tr>
</tbody>
</table>


### DPCI record: Citing Patents (CGP)

<table>
<thead>
<tr>
<th>CGP</th>
<th>Citing Patents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Patent</td>
<td>By</td>
</tr>
<tr>
<td>------</td>
<td>-----</td>
</tr>
<tr>
<td>EP 775072 B1</td>
<td>Ex</td>
</tr>
<tr>
<td>PA:</td>
<td>(KRON-I)</td>
</tr>
<tr>
<td>IN:</td>
<td>KRONSEDER H</td>
</tr>
</tbody>
</table>

DE 19920761 (citing) cites EP 775072 (master family).
Searching DPCI

- DPCI has a logical system of patent field codes for cited and citing data
  - .D for cited or .G for citing data
- Elements of a DPCI citation entry are linked together with the (P) operator
  - Records with British Motorola patents citations
    => S MOTOROLA/PA.D (P) GB/PC.D

Key DPCI fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Master</th>
<th>Cited</th>
<th>Citing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derwent Accession Number</td>
<td>AN</td>
<td>OS.D</td>
<td>OS.G</td>
</tr>
<tr>
<td>Patent Number</td>
<td>PN</td>
<td>PN.D</td>
<td>PN.G</td>
</tr>
<tr>
<td>Assignee name</td>
<td>PA</td>
<td>PA.D</td>
<td>PA.G</td>
</tr>
<tr>
<td>Assignee code</td>
<td>PACO</td>
<td>PACO.D</td>
<td>PACO.G</td>
</tr>
<tr>
<td>Inventor</td>
<td>IN</td>
<td>IN.D</td>
<td>IN.G</td>
</tr>
<tr>
<td>Citation count by accession number</td>
<td>N/A</td>
<td>OSC.D</td>
<td>OSC.G</td>
</tr>
<tr>
<td>Citation count by patent number</td>
<td>N/A</td>
<td>PNC.D</td>
<td>PNC.G</td>
</tr>
</tbody>
</table>
Popular DPCI display formats

- **D SCAN**: Random title (free)
- **D TRIAL**: Accession Number and title (free)
- **D HITCDP**: Hit cited patent data
- **D CITN**: All citation data (CDP, REN, CGP)
- **D BRIEF.D**: Title, Assignee, cited patents
- **D BRIEF.G**: Title, Assignee, citing patents
- **D ALL**: Complete record (full details)
- **D ALLB**: Complete record (condensed)

Main uses of DPCI

- **For enhanced subject searching**
  - by collecting the related cited and citing documents
- **Checking for patent infringement**
  - citations can identify very closely related documents
- **For competitor analysis**
  - the assignee details for cited and citing patents are searchable
- **To find the key patents for a technology**
  - by analysing the number of citing patents/inventions
How to find related patents

- To find related patents, starting with a patent number

  => FILE DPCI
  => S EP471447/PN (produces answer set L1)
  => SEL PN.D PN.G (produces select list E1-En)
  => FILE WPINDEX
  => S E1-En /PN (produces answer set L2)

  Answer set L2 contains the cited and citing patents

How extend a prior art search using DPCI

- To find related patents starting with a subject search

  => FILE WPINDEX
  => S subject of interest (produces L1)
  => FILE DPCI
  => TRANSFER L1 1- AN (produces L2 and L3)
  => FILE WPINDEX
  => TRA L3 1- OS.D OS.G /AN (produces L4 and L5)
  => S L1 OR L5 (produces L6)

  Answer set L6 contains the original patents plus all the cited and citing patents
How to identify key patents

• To identify key patents in a DWPI answer set by citation count

=> FILE WPINDEX
=> S topic of interest (produces L1)
=> FILE DPCI
=> TRANSFER L1 1- AN (produces L2 and L3)
=> ANALYZE L3 1- OSC.G (produces L4)
=> D L4 1- (find high OSC.G values)
=> S (high values)/OSC.G AND L3 (produces L5)

L5 contains the DPCI records for the highly cited patents

How to identify competitors

• To analyze the organizations developing inventions in the same area as your company:

=> FILE DPCI
=> S your company /PA.D, /PACO.D NOT your company /PA, PACO (produces L1)
=> ANALYZE L1 1- PAX PACO (produces L2)
=> D TOP 10 PACO
=> D TOP 10 PAX

This gives a listing of the top 10 organizations most frequently citing your company’s patents by Assignee Code (PACO) and Assignee Name with Code (PAX)
STN Express post-processing

- **Table Tool** to create tabulated results
  - Good for scanning/reviewing results
- **Predefined Report Tool** for a report using a Standard Patent Record layout
  - Easy way to tidy-up your patent results for a client
- **Customized Report Tool** to control all options
  - E.g. fonts, cover page, which data fields to include

Run the search, display the results and capture the session history.
Wheel propulsion assembly for bicycle, has motor anchored to restraining member and driving wheel, where wheel propulsion assembly is removably arranged within front fork of bicycle

**Abstract**


ADAPT - The design of the wheel propulsion assembly allows reducing transmission thrust mass and increasing diameter of a wheel, driving a compatible pneumatic tire, thus improving mechanical efficiency of a bicycle and improving manufacturability by eliminating the need for a clutch bearing.

**DESCRIPTION OF DRAWINGS** - The drawing shows a side view of a standard bicycle fitted with a propulsion assembly.

**Propulsion Assembly Options**

Standard bicycle (1001), Rear wheel drive system (1002), Rackametric (1003), Rear mounted battery (1046), Hub motor (1061), Long power cable (1067), Removable stopper (1059), Instrument cluster (1101).
Custom Report Tool

Select Content and other options for a custom report.

Select fields, fonts, alignments and colors.
...and create the **Customized Report**.

**Table Tool**

Select content, fields and format for the Table in a similar way to the custom report tool.
Review: What is DWPI “value-add”? 

- Enhanced patent titles and abstracts
  - Improve search recall and relevance
  - Reduce time required to review results

- Intellectually compiled patent families
  - Precise access to equivalent documents
  - Reduce time required to review results

- Comprehensive classification and indexing
  - Provides multiple methods to pinpoint documents
  - Improves search recall and relevance
## Summary

**Basic Topics**
- What is the Derwent World Patents Index (DWPI$^{SM}$)?
- A tour through a typical database record
- Searching DWPI on STN

**Advanced Topics**
- DWPI member-level search and display options
- Japanese patents in DWPI
- DWPI Chemistry Resource (DCR)
- Current awareness Alerts/SDIs
- Derwent Patents Citation Index (DPCI)
- Post-processing results using STN Express

## Resources

**DWPI on STN User Documentation**
- [http://www.stn-international.com/stn_dwpi.html](http://www.stn-international.com/stn_dwpi.html)
  - DWPI on STN Reference Manual
  - DWPI on STN Workshop Manual
  - DWPI Classification (DC) guide
  - Summary table of member level data coverage
  - Global Patent Sources – DWPI coverage in detail
  - Chemistry, Engineering and Polymer User Guides

**DWPI on STN database summary sheet**
Hands-on Practice

SUBJECT SEARCHING

1. What did you have for breakfast this morning? Choose one item of food or drink and search for patents on that subject. Take a look at a selection of titles (compare SCAN, TRIAL, SUM and simply TI) and display one database record in full (compare formats MAX, ALL, IALL, FULL, IFULL) and one in a bibliographic format (compare BIB, IBIB, FAM). [SEE PAGES 15 & 19]

2. Search for patents on fireworks. How many of these relate specifically to rockets? Extract those records which contain images (=> S Lx AND GI/FA). Display some of the images online (ALLG, FULLG or simply GI). Print some records to email. Type HELP PRINT if you need instructions on how to use the PRINT command. [SEE PAGES 15-19]

3. There have been many inventions dealing with earthquake resistant building components. Gather these together and display a few records in a format which includes patent assignees and patent numbers. (Hint: DWPI Classes Q44 and Q45 will make your search easier.) [SEE PAGES 15 & 20-21]

4. Use DWPI Class D25 to search for patents concerned with detergents, then use ANALYZE to find out which companies have applied for the greatest number of patents in this area. (You will probably retrieve a very large number of records; to save time, do not ANALYZE all of them!) [SEE PAGES 20-21, 25-28 & 36-37]
5. Over the years, numerous people have come up with novel ideas for dual-purpose convertible traveling or camping accessories (for instance a waterproof jacket that can be converted into a sleeping bag). Trying to find all these inventions using keywords would be virtually impossible because there are so many possibilities - but the IPC leads us straight to the answer. Search the following IPCs using the correct search format and display titles (TI) and IPCs (IPC) from a few of the resulting records. [SEE PAGES 23-24]

   A 41 D 15/04  Garments convertible into other articles
   A 45 F 4      Travel or camping articles which may be converted into articles for other use

6. EPI MANUAL CODES: Carry out a keyword search for illuminated clock faces and hands. Use SELECT or ANALYZE to check which Manual Codes (MC) are most applicable in this subject area then, using these Manual Codes, try to find further relevant patents. (Suitable Manual Codes include S04-A02X which covers the illumination of mechanical clocks and watches – and S04-B04 - for electronic displays.) [SEE PAGES 20-21]

7. CPI MANUAL CODES: Carry out a keyword search for artificial joints and limbs. Compare your result with the number of records retrieved in a search using Manual Code D09-C01D. Why are the results so different? [SEE PAGES 20-21]

8. Extend the search from Question 3 to include DWPI original titles, abstracts and main claims (/BIEX). How many additional records are found? [SEE PAGE 18-19]

9. EP714631 describes a lancet for taking blood samples. Use the citations given in PCI to find patents on the same or similar topics. (TIP: search the patent in PN field of file DPCI, SELECT the cited/citing patents - PN.D, PN.G - from the record retrieved, return to file WPINDEX and search the E-numbered items in the PN field. Display the records retrieved. Could the same result be achieved using Accession Numbers?) [SEE PAGE 64]
10. Somebody has invented a cat flap (a small door-within-a-door for a domestic cat to enter and leave a house) that distinguishes between black and ginger cats. Find the appropriate record in DWPI and display it in the most cost effective format which will enable you to read an abstract. What else can this invention be used for? What is the name of the patent assignee? Does he have any other patents? [SEE PAGES 19 & 29-30]


12. Retrieve all the patents applied for by De Beers. (Hint: use EXPAND to display all the company names beginning "De Beers..." then identify the correct PACO by using the Patent Assignee Code Thesaurus.) In which country is their patenting activity concentrated? Conduct an analysis using SELECT or ANALYZE on various country fields to find the most commonly occurring patent country or designated state. Which country codes give the most meaningful information? [SEE PAGES 25-28]

13. Retrieve all of Toshiba KK basic patent applications published between 1990 and 1992 (inclusive). Identify those which do not have a Japanese priority. Which is the most common priority country for these applications? [SEE PAGES 25-28 & 42-45]

14. From which country did ES 8605209 originate? How much time elapsed between the date of this first application and the date of publication of the first family member? [SEE PAGE 31]
Hands-on Practice

15. How many PCT applications (country code WO) were published in 1991? How many of these designated Germany? How many of these records have a German (DE) patent family member? (TIP: to display designated states use PI) [SEE PAGE 35]

16. Search for patents on the Japanese delicacy sushi. Exclude from your search all patent and patent applications which have only been published in Japan. (Hint: use the country count CYC or patent number count PNC fields.) How many of the remaining records have a Japanese priority? [SEE PAGES 35 & 42-45]

17. Search for Japanese number 38211, from 1984. This might be an application number, a Kokai or Kokoku publication number. Search for all three possibilities. [SEE PAGE 35 & 42-45]

18. Using keywords combined with DWPI Classification W04, retrieve all the inventions relating to music CDs. Isolate those which have been patented by Sony. With which other companies does Sony share the patent rights? (Hint: rather than displaying all the records, use ANALYZE to get an overview of the names or codes appearing in the patent assignee field.) [SEE PAGES 20-21 & 36]

19. Use ANALYZE on DWPI Classification (DC) and IPC subclass (SCL) to find out about Zebra Co Ltd products. Display the results in delimited (DELIM) format. [SEE PAGES 20-21 & 36]
1. Breakfast could be, e.g. Oatmeal.

2. Remember to use the synonym *pyrotechnic*.
Hands-on Practice

3. You should try to use all relevant synonyms.

=> S SEISMIC? OR EARTHQUAKE OR VOLCANO OR VULCANOL? OR TECHTONIC?
L1 52588 SEISMIC? OR EARTHQUAKE OR VOLCANO OR VULCANOL? OR TECHTONIC?

=> S RESIST? OR STRENGTH OR DURAB?
L2 2748862 RESIST? OR STRENGTH OR DURAB?

=> S BUILDING OR APPARTMENT OR HOUSE OR HOTEL OR SKYSCRAPER?
L3 666546 BUILDING OR APPARTMENT OR HOUSE OR HOTEL OR SKYSCRAPER

=> S L1 AND L2 AND L3
L4 8871 L1 AND L2 AND L3

=> E Q45/DC 6
E1 73300 Q44/DC
E2 1 Q44 Structural elements/DC
E3 134463 --> Q45/DC
E4 1 Q45 Roofing; stairs; floors/DC
E5 169421 Q46/DC
E6 1 Q46 Building aids; special structures/DC

=> S L1 AND L2 AND (Q44 OR Q45)/DC
L5 1691 L1 AND L2 AND (Q44 OR Q45)/DC

=> S L5 NOT L4
L6 611 L5 NOT L4

=> D BIB

L12 ANSWER 1 OF 611 WPINDEX COPYRIGHT 2012 THOMSON REUTERS on STN
AN 2012-500246 [201240] WPINDEX
TI Plate-shaped structure for as earthquake resistant structure safe
fireproof plaster board, has upper-and-lower surfaces covered with
sheet, and mixture mixed with diatomaceous earth, fiber of cedar bark
and adhesive agent and dried
DC P63; Q43; Q44
IN ABE T
PA (YAGI-I) YAGISAWA K
CYC 1
PIA JP 2012101375 A 20120531 (201240) * JA 7[2]
ADT JP 2012101375 A JP 2010-249194 20101105
PRAI JP 2010-249194 20101105

78
4. D25 is the class for detergents.

```
=> S D25/DC
L1 39116 D25/DC

=> ANALYZE
ENTER ANSWER SET OR ANALYZE L# OR (L1): L1
ENTER ANSWER NUMBER OR RANGE (1-): 1-2000
ENTER DISPLAY CODE (TI) OR ?: PAX PACO
L2 ANALYZE L1 1-2000 PAX PACO : 4063 TERMS

=> D PAX TOP 10
L2 ANALYZE L1 1-2000 PAX PACO : 4063 TERMS

TERM #    # OCC  # DOC  % DOC    PAX    PACO
-------- ------- ------- ---------- ----------
   2      147  147   7.35 (KAOS-C) KAO CORP
   5      109  109   5.45 (UNIL-C) UNILEVER NV
   8      107  107   5.35 (PROC-C) PROCTER & GAMBLE CO
  10      105  105   5.25 (UNIL-C) UNILEVER PLC
  12      100  100   5.00 (HENK-C) HENKEL KGAA
  16      82   82   4.10 (UNIL-C) HINDUSTAN LEVER LTD
  18      79   79   3.95 (LIOY-C) LION CORP
  20      45   45   2.25 (COLG-C) COLGATE PALMOLIVE CO
  21      75   43   2.15 (UNIL-C) UNILEVER HOME & PERSONAL CARE USA CO
  27      37   37   1.85 (ECON-C) ECOLAB INC

=> D DOC PACO TOP 10
L2 ANALYZE L1 1-2000 PAX PACO : 4063 TERMS

TERM #    # OCC  # DOC  % DOC    PAX    PACO
-------- ------- ------- ---------- ----------
   1      148  148   7.40 KAOS-C
   4      339  113   5.65 UNIL-C
   7      108  107   5.35 PROC-C
  13      100  100   5.00 HENK-C
  17      80   80   4.00 LIOY-C
  21      45   45   2.25 COLG-C
  23      75   43   2.15 RECK-C
  26      39   37   1.85 ECON-C
  31      37   36   1.80 GLDS-C
  33      35   35   1.75 JAPC-C
```
Hands-on Practice

5. The STN IPC search format is used here.

```plaintext
=> S A41D0015-04/IPC OR A45F0004/IPC
    194 A41D015-04/IPC
    758 A45F004/IPC
L1    905 A41D015-04/IPC OR A45F004/IPC

=> D 125 TI IPC

L1   ANSWER 125 OF 905 WPINDEX COPYRIGHT 2006 THE THOMSON CORP on STN
TI   Raingear and backpack combination for use with article e.g. fishing
     vest, has packet formed in backpack, and raingear tied to pocket such
     that when deployed, tie does not affect operation of donning of
     raingear.
IC   ICM A45F0004-02
```

6. Try to use all possible synonyms.

```plaintext
=> S (LIGHT? OR ILLUMIN?) AND (CLOCK OR WATCH OR WRISTWATCH) (5A) (DISPLAY OR
     FACE OR HAND)
L1    1468 (LIGHT? OR ILLUMIN?) AND (CLOCK OR WATCH OR WRISTWATCH)
     (5A) (DISPLAY OR FACE OR HAND)

=> ANALYZE L1 MC 1-
L2    ANALYZE L1 1- MC : 1308 TERMS

=> D
L2    ANALYZE L1 1- MC : 1308 TERMS

TERM #   # OCC  # DOC  % DOC MC
-------- -------- -------- ----------
  1     195    195  13.28 S04-B04A
  2     171    171  11.65 U14-K01A1C
  3     152    152  10.35 S04-B04
  4      88     88   5.99 S04-B09
  5      83     83   5.65 U14-K01A4C
  6      73     73   4.97 W05-E05B
  7      72     72   4.90 S04-A02A
  8      66     66   4.50 S04-A02X
  9      65     65   4.43 X26-J
 10      64     64   4.36 A12-L03B

(contined on next page)
```
Clock e.g. analog clock has light sources arranged at arbitrary positions by positive and negative electrode circuits patterns of circuit board for illuminating character board.

NOVELTY - A circuit board (11) has positive and negative electrode Circuit patterns (11a,11b) which arrange light sources (16) at arbitrary positions for illuminating character board.

USE - E.g. analog clock and digital clock with light source.

ADVANTAGE - Enables the user to view the time in dark environment.

DESCRIPTION OF DRAWING(S) - The figure shows the top view of the circuit board of the cloth with light source. . . .
Hands-on Practice

7. Use WPIX subscriber file for this example.

=> FILE WPIX

=> S (ARTIFICIAL OR REPLAC?) (3A) (JOINT OR LIMB OR ARM OR LEG OR BONE)
L1  6326 (ARTIFICIAL OR REPLAC?) (3A) (JOINT OR LIMB OR ARM OR LEG OR BONE)

=> S D09-C01D/MC
D09-C01D ARTIFICIAL JOINTS AND LIMBS, ARTIFICIAL BONE, TENDONS
L2  5985 D09-C01D/MC

=> S L1 NOT L2
L3  4797 L1 NOT L2

=> S L2 NOT L1
L4  4456 L2 NOT L1

=> D KWIC L3

L3  ANSWER 1 OF 4797  WPIX  COPYRIGHT 2006 THE THOMSON CORP on STN
AB  .  .  .
are fixed to a structure (1) comprising support elements, to connect
and reinforce the adjacent modules to one another, by replacing the
leg at the rear abutting corners of adjusting modules.
USE - Modular seat.
ADVANTAGE - Enables to support the seat cushion. . .

=> D L4 TI MC

L4  ANSWER 1 OF 4456  WPIX  COPYRIGHT 2006 THE THOMSON CORP on STN
TI  Modular implanting support assembly for reconstructing and supporting
diseased or fractured bone or within space previously occupied by
diseased intervertebral disc, has plates, one of which arranged
adjacently to another plate within bone.
MC  CPI: A12-V02; D09-C01D
8. Use PN.D & PN.G or OS.D & OS.G.

=> FILE DPCI
=> S EP714631/PN
    L1  1 EP714631/PN

=> SEL PN.D PN.G
    E1 THROUGH E114 ASSIGNED

=> FILE WPINDEX

=> S E1-E114/PN
    L2  84 (EP403873/PN OR . . . US5026388/PN OR . . .)

OR....

=> FILE DPCI
=> S EP714631/PN
    L1  1 EP714631/PN

=> SEL OS.D OS.G
    E1 THROUGH E83 ASSIGNED

=> FILE WPINDEX

=> S E1-E84/AN
    L2  84 (1981-K5099D/AN OR . . . 1994-145791/AN OR . . .)

=> D AN TI 1 84

L2  ANSWER 1 OF 84  WPINDEX  COPYRIGHT 2006 THE THOMSON CORP on STN
AN  2005-112995 [12]  WPINDEX
TI  Puncturing device for puncturing patient's skin to collect blood sample
    for diagnostic purposes, comprises housing with push button having arms
    and driving spring, and puncturing needle.

L2  ANSWER 84 OF 84  WPINDEX  COPYRIGHT 2006 THE THOMSON CORP on STN
AN  1981-K5099D [41]  WPINDEX
TI  Instrument for taking blood sample - has spring operated lancet holder
    to control depth of penetration of lancet.
Hands-on Practice

9. Use the Basic Index Extension (/BIEX)

```plaintext
=> FILE WPINDEX

=> S SEISMIC? OR EARTHQUAKE OR VOLCANO OR VULCANOL? OR TECHTONIC?
L1  48068 SEISMIC? OR EARTHQUAKE OR VOLCANO OR VULCANOL? OR TECHTONIC?

=> S RESIST? OR STRENGTH OR DURAB?
L2  2379495 RESIST? OR STRENGTH OR DURAB?

=> S BUILDING OR APPARTMENT OR HOUSE OR HOTEL OR SKYSCRAPER
L3  571470 BUILDING OR APPARTMENT OR HOUSE OR HOTEL OR SKYSCRAPER

=> S L1 AND L2 AND L3
L4  6876 L1 AND L2 AND L3

=> SET SFIE BI BIEX
SET COMMAND COMPLETED

=> S SEISMIC? OR EARTHQUAKE OR VOLCANO OR VULCANOL? OR TECHTONIC?
L5  52588 SEISMIC?/BI,BIEX OR EARTHQUAKE/BI,BIEX OR VOLCANO/BI,BIEX OR VULCANOL?/BI,BIEX OR TECHTONIC?/BI,BIEX

=> S RESIST? OR STRENGTH OR DURAB?
L6  2748862 RESIST?/BI,BIEX OR STRENGTH/BI,BIEX OR DURAB?/BI,BIEX

=> S BUILDING OR APPARTMENT OR HOUSE OR HOTEL OR SKYSCRAPER
L7  666546 BUILDING/BI,BIEX OR APPARTMENT/BI,BIEX OR HOUSE/BI,BIEX OR HOTEL/BI,BIEX OR SKYSCRAPER/BI,BIEX

=> S L5 AND L6 AND L7
L8  8871 L5 AND L6 AND L7

=> S L8 NOT L4
L9  1995 L8 NOT L4
```
10. BRIEF is the most cost effective format choice.

=> FILE WPINDEX

=> S CAT FLAP AND GINGER AND BLACK
L1 1 CAT FLAP AND GINGER AND BLACK

=> D BRIEF

=> SEL L1 PA
E1 THROUGH E1 ASSIGNED

=> S E1/PA
L2 41 "PEDRICK A P"/PA


=> E KODAK CLINICAL DIAGNOSTICS/PA 5
E1 1 KODAK BET-GMBH/PA
E2 1 KODAK BRASILEIRA COMERCIO & IND LTD/PA
E3 0 --> KODAK CLINICAL DIAGNOSTICS/PA
E4 1 KODAK CLINICAL DIAGNOSTICS LTD/PA
E5 1 KODAK CO LTD/PA

=> S E4
L1 1 "KODAK CLINICAL DIAGNOSTICS LTD"/PA

=> D L1 BIB

12. Using continous Expand can be helpful.

=> SET EXPAND CONTINUOUS
SET COMMAND COMPLETED

(continued on the next page)
Hands-on Practice

13. Toshiba KK has the assignee code TOKE.

(continued on the next page)
Hands-on Practice

14. Display/interpret the record itself (note US is the PRC)

=> S ES8605209/PN
=> D BIB

15. It is essential to use a (P)-operator in these searches.

=> S WO/PC (P) 1991/PY
=> S WO/PC (P) DE/DS (P) 1991/PY
=> S L2 AND DE/PC

16. Either exclude using publication kind or country.

=> S SUSHI OR SASHIMI OR RAW FISH
=> S L1 NOT (JP/PC AND 1/CYC) ➔ Exclude JP-only records
=> S L1 NOT (JPA/PK AND 1/PNC) ➔ Exclude JPA-only records
=> S L2 AND JP/PRC

17. Required Emperor's year arithmetic: 1984 – 25 = 59

=> S JP1984-38211/AP ➔ Application Number
=> S JP59038211/PN ➔ Kokai (JP-A) publication number
=> S JP59038211B/PN ➔ Kokoku (old law JP-B) publication number
18. The Patent Assignee Code for Sony is SONY.

```plaintext
=> S (COMPACT DISC OR CD) AND (MUSIC OR AUDIO) AND W04/DC AND SONY/PACO
=> ANA L1 PAX PACO
=> D L2 PAX TOP 20
=> D L2 PACO TOP 20
```

19. Use IPC LEN4 to selectively analyze the first digits of the IPC.

```plaintext
=> S ZEBRA CO LTD/PA
=> ANA L1 IPC LEN4 DC
=> D L2 IPC TOP 20 DELIM
=> D L2 DC TOP 20 DELIM
```
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