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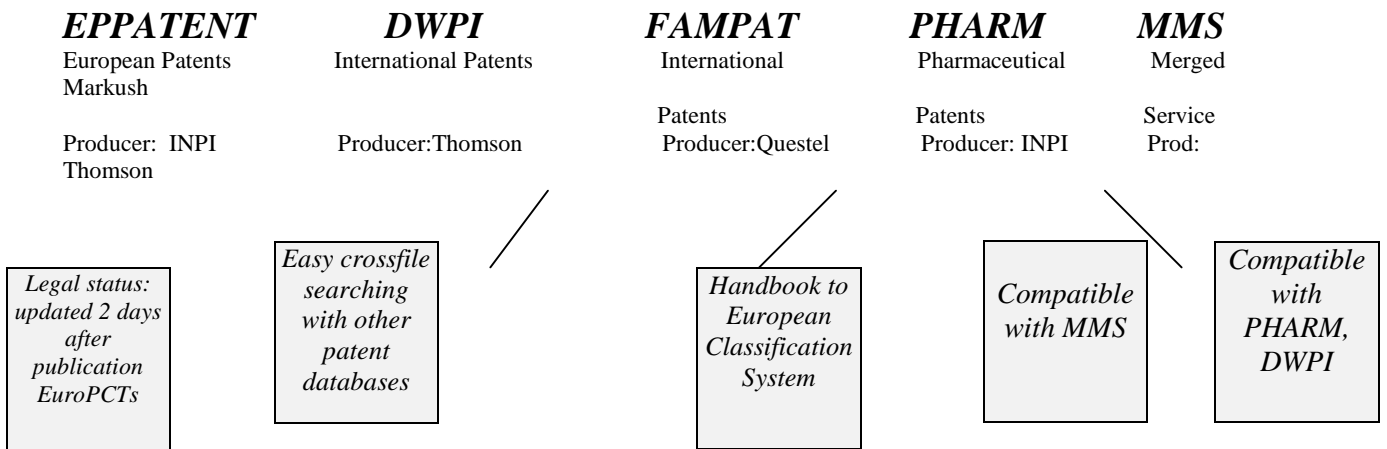
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# Why Use Questel for Patent Searching?

## Most Comprehensive Collection of Patent Databases

- Comprehensive Patents Coverage
  - over 78 countries
  - comprehensive US coverage
  - comprehensive international coverage
- Quick database updating
- Unique Intellectual Property Databases
  - unique databases
  - unique loads  
(indexing, standardized patent data)



## System Features for the Patent Searcher

- easy-to-use
- standardized patent/publication, priority and application numbers
- flexible search environment
- powerful, useful and cost-effective system features
- patent family searching
- statistical analysis tools

## The Patent Process

The patent process begins with an idea...

### **Invention**

An invention is a novel, or unique, idea which can become an industrial application, i.e., it can be manufactured or built. It must be a new idea in that there is not any evidence in the 'prior art' of the applicable industry that it has been developed or written about previously. It also must be an idea that is not easily thought of using common industrial knowledge.

### **Application**

An inventor, who might be an individual or a company, applies for legal protection for an invention by filing an application for a patent at one or more patent offices worldwide. As part of the application process, an application is examined by a patent examiner in the prior art for novelty and for non-obviousness.

### **Patent**

A patent is granted after the application successfully wends its way through the examination process; it is a document, which conveys to the inventor the sole ownership of the invention usually for a period of 15 to 20 years. The inventor has the right to manufacture, or build, the invention himself or to convey the rights to a second party for monetary payment.

## Section I The Basics of Searching

### Step 1

Select the database of choice by entering the command:

**FILE**<database name>

*The database banner message is displayed when the file is accessed, providing coverage and update information.*

file <name> stat

### Step 2

Enter the search term(s).

*Questel offers implied proximity to assist with natural language input of terms.*

### Step 3

Display the 1<sup>st</sup> record from search results in the standard bibliographic format:

**PRT**

**PRT N** where N is a record number

**PRT** defaults to the first record in the last search statement in the standard format.

Use **SET** to display all results.  
(See p.19 for the **PRT** options)

Use **ST** to end the search session. The search strategy is automatically retained for 2 hours.

**fi fampat**

Selected file: FAMPAT

FAMPAT - (c) Questel, All Rights Reserved.

Bibliographic data and abstracts for all family members are searchable

Search & display options for both FamPat & extended family definition

Coverage: 75 patenting authorities; start dates vary from 1800 forward

For FAMPAT Fact Sheet, Pricing and FAQ, see the Questel website

Now available: Citations/Search Reports for German (DE) family members

Last update of file: 2006/01/08  
(YYYY/MM/DD) 2005-52/UP (last update)

Search statement 1

**fiber optics**

Frequency	Term
270393	FIBER
12021	OPTICS

\*\* SS 1: Results 1.344

Search statement 2

**prt**

1/1344 FAMPAT - (C) QUESTEL- image  
CPIM Questel  
FAN - 20053620018593  
PN - US20050279511 A1 20051222  
[US20050279511]  
TI - Method and apparatus for  
deploying a line in coiled tubing  
IN - Adnan Sarmad; Gay Michael G  
AP - 2004US-0872176 20040618  
PR - 2004US-0872176 20040618  
IC - E21B-019/22  
PCL - ORIGINAL (O) : 166380000; CROSS-  
REFERENCE (X) : 166077200  
UP - 2005-51

## User Options Setup

There are 2 types of user options:

- **permanent** : the options will be kept until the next time it is being changed
- **temporary** : the options will be kept for the time of a session

### Permanent user options

Display permanent user options: **POP**

TERMINAL	8
NL	NONSTOP
NC	80
LANGUAGE	2
MESSAGE	LONG
TRUNCATION	NONSTOP
AUDIT	ON
SSZERO	SAVE
COST	ON
HLIG	ON
TLIM	10
DETAIL	ON
SPEED	28800
IMAGE	GIF
SIZE	99%
MFAM	US
MSGDOC	1000
MAXDOC	20000
MAXVOL	0

**Modify** permanent options:

- number of occurrences for individual terms searched

- turn display on: **POP AUDIT ON**
- turn display off (default): **POP AUDIT OFF**

- accented characters

- without display of accented characters (default): **POP TERM STDR**
- with display of accented characters: **POP TERM 8**

- number of lines displayed on screen before prompted to continue (minimum 10, default 24):

- change the current setting to a nonstop display: **POP NL 5000**

- number of characters per line (6-90 default 80): **POP NC 85**

- system language

- French (default): **POP LA 1**
- English: **POP LA 2**

- truncation

- with display of terms generated (default): **POP TRUN SEL**
- without display of terms and with dialog asking “More” or “End” every 1000 terms: **POP TRUN AUTO**
- with display of terms or dialogue: **POP TRUN NONSTOP**

- system prompts
  - if full (default): **POP MES LONG**
  - abbreviated: **POP MES SHORT**
  
- search statements with zero results in current session (available only in single database environment)
  - kept in strategy (default): **POP SSZ SV**
  - erased from strategy: **POP SSZ ER**
  
- online estimated search costs
  - turn display off: **POP COST OFF**
  - turn display on (default): **POP COST ON**
  
- search terms highlighted in displayed results (with Imagination software)
  - with asterisks: **POP HLIQ ON TERM 8**
  - with inverse video: **POP HLIQ ON TERM 9**
  - highlight off (default): **POP HLIQ OFF**
  
- display of message “Processing” every n seconds (min. 10, max 300) while system processes important environment: **POP TLIM 200**
  
- display of results in a cluster environment
  - detailed database by database (default): **POP DET ON**
  - overall: **POP DET OFF**
  
- Image format
  - GIF format (default): **POP IMG GIF**
  - TIFF format: **POP IMG TIFF**
  - reduction of images from 1% to 99% (default: 0): **POP IMG TIFF R25**
  
- combining several options: **POP NL 50 NC 90 TRUN AUTO**

## Temporary user options

Display temporary user options: **OP**

Modify options for current session only: **OP HLIQ ON TERM 2**

## Entering a Database (FILE Command)

The **FILE (FI)** command can be used to obtain the list of the available databases. To view the entire list of files, simply enter the FI command: **FILE** or **FI**

```
1  ALIT          ALIT
2  ALITNS       ALIT - NONSUB
3  APAT         APAT
4  APIN         APINews
5  APPALERT    PATENT APPLICATION ALERT
6  ATMARK      AUSTRIAN TRADEMARKS
7  BEMARK      BENELUX TRADEMARKS
8  BFAMPAT     Maquette Broad Family Prototype
9  BIOT        Biotechnology Abst
10 BODACC      CURRENT ENTRIES IN TRADE REGISTER
    BREVINPI    INPI-OEB IMAGE FILE
11 BXMARK      BENELUX TRADEMARKS
12 CAMARK      Canadian Trademarks
13 CANOM       CHEMICAL ABSTRACTS NOMENCLATURE
14 CHMARK      SWISS TRADEMARKS
15 COMP        Ei Compendex
16 CPAT        Chinapatent
17 CRXX        Claims Reexam.
18 CSMARK      Cseches Trademarks
    CTD        LOGOS COMMUNAUTAIRE
19 CZMARK      Cseches Trademarks
20 DEFULL      BASE DEFULL
                (display abbreviated)
```

For an alphabetical section of the database list, enter **FI** followed by the first character in the database name:

### FILE E+

```
1  DWPIMC      MANUAL CODING SYSTEM DERWENT
2  DWPIMV     Derwent World Patents Index M View
3  DWPX       DERWENT WORLD PATENTS INDEX
4  ECLA       EPO INTERNAL CLASSIFICATION SCHEME
5  ECLADEF    MANUEL OF EPO CLASSIFICATION CODES
6  EEDOC      MODEL EEDOC
7  ELOG       MODEL ELOG
8  EMMARK     COMMUNITY TRADEMARKS
9  EPAPAT     EUROPEAN PATENTS (Full Text APPLICATIONS)
10 EPBPAT     EUROPEAN PATENTS (Full Text GRANTED)
11 EPBPAT0    BASE EPBPAT0
12 EPBPAT1    BASE EPBPAT1
13 EPBVLDB    BASE EPBVLDB
14 EPF1       MODEL EPF1
15 EPF2       MODEL EPF2
16 EPF3       MODEL EPF3
                (display abbreviated)
```

## Searching the Basic Index (Entering a Search Term)

When entering search terms, Questel defaults to searching the Basic Index. The Basic Index typically includes all of the subject related fields such as the Title, Abstract, Index Terms fields.

*Note: The system language is not case-sensitive, so both upper and lower case can be used for searching.*

When searching for a specific topic with the appropriate keywords, it is important to consider the ways for connecting those keywords through Boolean logic and proximity operators.

### Logic Operators

Description	Operator	Example
Record contains at least one of the search terms	<b>OR</b>	<b>interactive OR graphics</b> <b>** SS 1: Results 12.368</b>
Both words must be present in the same record	<b>AND</b>	<b>interactive AND graphics</b> <b>** SS 2 Results 276</b>
First search term must be present in the record, but not the second search term	<b>NOT</b>	<b>interactive NOT graphics</b> <b>** SS 3 Results 5.720</b>

*Note: The NOT operator should be used with caution.*

Questel supports the **AUDIT** command, which displays the number of occurrences of each search term in query:

See User Options Setup (p. 6)

**pop** (displays the selected permanent options on the current UserID)

TERMINAL	8
NL	NONSTOP
NC	80
LANGUAGE	2
MESSAGE	LONG
TRUNCATION	NONSTOP
AUDIT	ON
SSZERO	SAVE
COST	ON
HLIG	ON
TLIM	10
DETAIL	ON
SPEED	28800
IMAGE	GIF
SIZE	99%
MFAM	US

Search statement 1

**pop audit on** (Activates the **AUDIT** feature permanently.)

### **fi pluspat**

#### **interactive and graphics**

Frequency	Term	
19806	INTERACTIVE	(Postings for each term are displayed.)
15166	GRAPHICS	

**\*\* SS 1: Results 71**

## Proximity Operators

Proximity operators define the position of the terms in relation to each other in the document (next to each other, in the same field etc.)

Search terms must be adjacent in any order, separated by up to N (from 1 to 9) number of words	<b>nD</b>	<b>interactive (5d) graphics</b> ** SS 4: Results 107
Search terms must be adjacent in any order, separated by exactly N (from 1 to 9) number of words	<b>=nD</b>	<b>interactive (=5d) graphics</b> ** SS 5: Results 7
Search terms must be adjacent in any order	<b>D</b>	<b>interactive (d) graphics</b> ** SS 6: Results 42
Search terms must be adjacent in order specified, separated by up to N (from 1 to 9) number of words	<b>nW</b>	<b>interactive (3w) graphics</b> ** SS 7: Results 79
Search terms must be adjacent in order specified, separated by exactly N (from 1 to 9) number of words	<b>=nW</b>	<b>interactive (=3w) graphics</b> ** SS 8: Results 5
Search terms must be adjacent in order specified	<b>W</b>	<b>interactive (w) graphics</b> ** SS 9: Results 40

*Note: proximity operators can be entered with or without parentheses on Questel, e.g. search digital 2d signal is equivalent to the search digital (2d) signal. Orbit required the use of the parentheses.*

Several proximity operators maybe used to locate terms present in the same section of a record (field, paragraph, sentence):

Search terms must appear in the same field (Absence of the second term: NOTF)	<b>F</b>	<b>interactive (f) graphics</b> ** SS 10: Results 215
Search terms must appear in the same paragraph (also NOTP)	<b>P</b>	<b>interactive (p) graphics</b> ** SS 11: Results 173
Search terms must appear in the same sentence (also NOTS)	<b>S</b>	<b>interactive (s) graphics</b> ** SS 12: Results 173
Link the search terms from the same field to be retrieved (also NOTL)	<b>L</b>	<b>1989/pr (L) gb/pr</b>

## Implied Proximity

The implied proximity is available for use with text fields. With implied proximity, any search terms entered without Boolean or proximity operators will be searched as adjacent terms (e.g. the W proximity operator is automatically applied).

<b>interactive graphics</b> ** SS 13: Results 40	Number of results is the same as in SS 9	<b>interactive (w) graphics</b> ** SS 9: Results 40
---	--	--

## Processing Order of Search Terms

It is necessary to specify processing order when multiple operators are used in a search. The processing order is specified with parentheses.

Specify order of processing by using parentheses:

**semiconductor? w ((field? effect? transistor+) or +FET?)**

**/m3 (g100 | k431 | m240) notl (h? or j? or k1 or k2)**

Also applies when combining search sets:

**1 and (2 or 3)**

The system will not process the following searches:

**semiconductor? w field? effect? transistor+ or +FET?**

**/m3 g100 | k431 | m240 notl h? or j? or k1 or k2**

Also applies when combining search sets:

**1 and 2 or 3**

## Nesting

Since many concepts or objects have a lot of synonyms or various abbreviations, in order to locate the complete set of relevant records it is necessary to search using different names or abbreviations that refer to the same term. Use parentheses to “nest” or group terms when combining several synonyms or to change the processing order of the different operators.

*Note: Up to 5 nesting levels are available.*

**(suv or sport utility vehicle)**

\*\* SS 1: Results 37

**(suv or sport utility vehicle) not vesicle?**

\*\* SS 2: Results 30

**NOT** operator was used to exclude the records listing the SUV - small unilammelar vesicles

## Using Results Sets in Search Statements

It is possible to limit or broaden the search results by combining the search sets using the appropriate logical operators and nesting where necessary.

**(interactive or computer) and graphics**

Frequency	Term
19806	INTERACTIVE
302025	COMPUTER
15166	GRAPHICS

\*\* SS 4: Results 4.615

**(software or application) and development**

Frequency	Term
55744	SOFTWARE
319843	APPLICATION
85384	DEVELOPMENT

\*\* SS 5: Results 5.636

## human computer interaction

Frequency	Term
140422	HUMAN
302025	COMPUTER
26556	INTERACTION

\*\* SS 6: Results 18

**6 or (4 and 5)**

\*\* SS 7: Results 25

**4:6**

\*\* SS 8: Results 10.262

**and 4,5**

\*\* SS 9: Results 7

*Note: Use the search results set numbers without the SS prefix.*

This statement is equivalent to: **4 or 5 or 6**

This statement is equivalent to: **4 and 5**

## System operators, commands and search statement numbers as search terms

If the search terms in the strategy contain the reserved system operators (logic, proximity etc.) and the actual numbers, as opposed to the search statement numbers, use double quotes “ ” around the search term(s).

For example, to search for 3D video or 3D games, it is necessary to use the double quotes around 3D, since 3 could refer to the SS 3 (if there are more than 3 search statements) and D is the proximity operator:

**"3d" and (or video, game, software)**

Frequency	Term
19542	3D
210507	VIDEO
80655	GAME
55744	SOFTWARE

\*\* SS 10: Results 1.019

## Search strategies with multiple lines

To continue entering multiple search terms that belong to the same search statement: end the line with a space and hyphen "-" and continue entering the terms on the next line:

**(CELL OR CELLULAR OR MOBILE) AND (PHONE OR TELEPHONE OR -  
CELLPHONE) AND (DIGITAL OR ANALOG NETWORK) AND (OR US, JP)/PC -  
AND (OR 1998, 1999)/PN**

\*\* SS 11: Results 205

## Truncation

Retrieving word variations is very important in order to obtain all relevant results. Questel offers several possibilities in truncating search terms:

## Truncation Symbols

- + used for unlimited and left-hand truncation
- ? up to one character (0-1), used for left-hand, right-hand and internal truncation
- # represents exactly one character

## Special options and qualifiers used with truncation

Display the current User Options Setup (p. 9) with POP command.

TERMINAL	STANDARD
NL	24
NC	80
LANGUAGE	2
MESSAGE	LONG
TRUNCATION	SELECT
AUDIT	ON
SSZERO	SAVE
COST	ON
HLIG	ON
TLIM	0
DETAIL	ON
IMAGE	GIF
SIZE	100%

## Options

**pop trun sel** activates the display of the variations of terms

### photograph+

```
1 55762 PHOTOGRAPH
2 19 PHOTOGRAPHABLE
3 1 PHOTOGRAPHAC
4 2 PHOTOGRAPHAIIC
5 1 PHOTOGRAPHALBUMS
6 10 PHOTOGRAPHIC
7 5 PHOTOGRAPHICI
8 1 PHOTOGRAPHICALLY
9 1 PHOTOGRAPHICS
10 6585 PHOTOGRAPHED
11 1 PHOTOGRAPHEDTHINGS
12 793 PHOTOGRAPHER
13 97 PHOTOGRAPHERS
14 2 PHOTOGRAPHES
15 1 PHOTOGRAPHHCIIIC
Remaining terms: > 50
1 12
** SS 1: Results 56.183
```

To override this default use **/ALL** qualifier after the search term to retrieve all variations of a truncated term without displaying them:

### photograph+/all

```
** SS 2: Results 81.331
```

**pop trun auto** without display of terms, with prompt ("More" / "End" every 1000 terms)

### photo +

```
Last term selected:
PHOTODYNAMICS
```

### More

```
Last term selected:
PHOTOMAGNETICALLY
```

### End

```
** SS 3: Results 230.046
To override the default use /S qualifier
after the search term to activate the
display of variations:
```

### photo+/s

```
1 55312 PHOTO
2 1 PHOTO-AGEING
3 1 PHOTO-CHEMICAL
4 1 PHOTO-CONDUCTIVE
5 1 PHOTO-CONDUCTOR
6 2 PHOTO-DIODE
7 1 PHOTO-DISC
8 1 PHOTO-EMF
9 1 PHOTO-FIELD
10 1 PHOTO-FINISHING
11 1 PHOTO-FLIP
12 2 PHOTO-INTERRUPTER
13 2 PHOTO-LITHOGRAPHY
14 1 PHOTO-MOS
15 1 PHOTO-PLETHYSMOGRAPH
```

**pop trun nonstop** automatically retrieves all variations with no prompting

### photograph+

```
** SS 5: Results 81.331
```

To override the default use **/S** qualifier after the search term to activate the display of variations:

### photograph+/s

```
1 55762 PHOTOGRAPH
2 19 PHOTOGRAPHABLE
3 1 PHOTOGRAPHAC
4 2 PHOTOGRAPHAIIC
5 1 PHOTOGRAPHALBUMS
6 10 PHOTOGRAPHIC
7 5 PHOTOGRAPHICI
8 1 PHOTOGRAPHICALLY
9 1 PHOTOGRAPHICS
10 6585 PHOTOGRAPHED
11 1 PHOTOGRAPHEDTHINGS
12 793 PHOTOGRAPHER
13 97 PHOTOGRAPHERS
14 2 PHOTOGRAPHES
15 1 PHOTOGRAPHHCIIIC
Remaining terms: > 50
```

## Search Example Truncation type

### Unlimited

#### Right-hand

Root plus 0 or 1 character

Root plus 0,1 or 2 characters

*Use /s qualifier to get the display of variations*

Exactly 1 character

#### Left-hand

*(is available in the text fields TI, AB of all patent databases, e.g. DWPI, PCTPAT, JAPIO, IFIPAT etc.)*

### Internal

0-1 character

Multiple characters

Exactly one character

### Combination

Beginning/root/ending variations.

*Note: Each type (#, ?, +) maybe used up to 3 times per search term.*

#### electric+

\*\* SS 1: Results 743.464

#### graphic?

\*\* SS 2: Results 16.325

#### photograph??

\*\* SS 3: Results 78.663

#### sulphi#

#### +lithography

\*\* SS 4: Results 10.482

#### +osteoporo+

\*\* SS 5: Results 2.897

#### flavo?r

\*\* SS 6: Results 18.465

#### flavo+r

\*\* SS 7: Results 18.483

#### h#logram

\*\* SS 7: Results 6.632

#### +therap?

\*\* SS 8: Results 22.250

#### phos#?or??

\*\* SS 9: Results 79.421

## Retrieved words

ELECTRIC  
ELECTRICAL  
ELECTRICITY etc.

GRAPHIC  
GRAPHICS

PHOTOGRAPH  
PHOTOGRAPHER  
PHOTOGRAPHIC  
PHOTOGRAPHY etc.

SULPHIC  
SULPHID  
SULPHIN  
SULPHIT etc.

LITHOGRAPHY  
ELECTROPHOTOLITHOGRAPHY  
MICROLITHOGRAPHY  
PHOTOLITHOGRAPHY  
PHOTOSTEREOLITHOGRAPHY  
etc.

OSTEOPOROSSES  
OSTEOPOROSIC  
OSTEOPOROSIS  
ANTIOSTEOPOROSIS etc.

FLAVOR  
FLAVOUR

FLAVOBACTER  
FLAVOR  
FLAVORER  
FLAVOUR  
FLAVOURINGPOWDER

HALOGRAM  
HELOGRAM  
HOLOGRAM

THERAPY  
AEROTHERAPY  
AROMATHERAPY  
CHEMOTHERAPY etc.

PHOSHPOR  
PHOSPHOR  
PHOSPHORIN  
PHOSPHORUS etc.

## Displaying a Search History

Previous search statements in the session can be displayed, modified, re-executed, saved/stored.

<b>HIS (HI)</b>	to display the search strategy for the entire session in full
<b>HI n</b>	to display the specific search statement
<b>HIS SHORT</b>	to display the search strategy for the entire session in summary
<b>HIS FROM BEGIN</b>	to display the search strategy for the entire session from all the previously selected databases during the current session

Display the search history  
**HIS**

```

his
File : PLUSPAT
SS Results
1      46  (SUV OR SPORT UTILITY VEHICLE)
2      44  (SUV OR SPORT UTILITY VEHICLE) NOT VESICLE
3     3078 (INTERACTIVE OR COMPUTER) AND GRAPHICS
4      29  (SOFTWARE OF APPLICATION) AND DEVELOPMENT
5       5  HUMAN (W) COMPUTER (W) INTERACTION
6       6  5 OR ( 3 AND 4)
7     3111 3: 5
8       1  AND 3, 4
9     551  "3D" AND (OR VIDEO, GAME, SOFTWARE)

Search statement 10
  
```

To remove the last search statement use:  
**BACKUP**

```

backup
his
1      46  (SUV OR SPORT UTILITY VEHICLE)
2      44  (SUV OR SPORT UTILITY VEHICLE) NOT VESICLE
3     3078 (INTERACTIVE OR COMPUTER) AND GRAPHICS
4      29  (SOFTWARE OF APPLICATION) AND DEVELOPMENT
5       5  HUMAN (W) COMPUTER (W) INTERACTION
6       6  5 OR ( 3 AND 4)
7     3111 3: 5
8       1  AND 3, 4

Search statement 9
  
```

To keep selected search statements in the strategy, while removing others:  
**KEEP m-n**

```

keep 3-8
his
1     3078 (INTERACTIVE OR COMPUTER) AND GRAPHICS
2      29  (SOFTWARE OF APPLICATION) AND DEVELOPMENT
3       5  HUMAN (W) COMPUTER (W) INTERACTION
4       6  3 OR ( 1 AND 2)
5     3111 1: 3
6       1  AND 1, 2

Search statement 7
  
```

To remove the search statements after and including the specific SS N:  
**BACKUP N**

```

backup 5
his
1     3078 (INTERACTIVE OR COMPUTER) AND GRAPHICS
2      29  (SOFTWARE OF APPLICATION) AND DEVELOPMENT
3       5  HUMAN (W) COMPUTER (W) INTERACTION
4       6  3 OR ( 1 AND 2)

Search statement 5
  
```

To remove the particular search statement number:  
**ER N**

```

er 4
his
1     3078 (INTERACTIVE OR COMPUTER) AND GRAPHICS
2      29  (SOFTWARE OF APPLICATION) AND DEVELOPMENT
3       5  HUMAN (W) COMPUTER (W) INTERACTION

Search statement 4
  
```

To remove/erase all existing search statements:  
**ERSLL**

```

ersll
Search statement 1
  
```

## Temporary Saved Searches

### SAVE command

The following steps show how to save and execute searches temporarily (kept on the system for 7 days - FREE of charge).

#### Step 1

Select the file and create the search strategy.

#### Step 2

Temporarily save the strategy by using the command:

**SAVE <search\_name>**

(Permanent storage of a search strategy is conducted by using the command **STORE**)

**SHO** display names of all saved searches

**SHO <search\_name>**

display the complete search strategy of the saved search

#### Step 3

Switch to the database of choice and execute the saved search.

**EX <search\_name>**

To Erase a Saved Search, use:

**PURGE <search\_name>**

**file dwpi**

**electronic 3d (publishing or publication? or document?)**

\*\* SS 1: Results 947

**1 and /pd=1997:1999**

\*\* SS 2: Results 450

**2 and us/pc**

\*\* SS 3: Results 126

**save digital**

DWPI - 16/11/2005  
Save search creation : DIGITAL

**sho**

Save search : DIGITAL  
DWPI - 2005/11/16

**sho digital**

Save search : DIGITAL  
DWPI - 2005/11/16

1 - ELECTRONIC 3D  
(PUBLISHING OR  
PUBLICATION? OR  
DOCUMENT?)  
2 - 1 AND /PD=1997:1999  
3 - 2 AND US/PC

**file pluspat**

**ex digital**

<<ELECTRONIC 3D (PUBLISHING OR PUBLICATION? OR  
DOCUMENT?)>>  
\*\* SS 1: Results 535

<< 1 AND /PD=1997:1999 >>  
\*\* SS 2: Results 201

<< 2 AND US/PC>>  
\*\* SS 3: Results 43

**purge DIGITAL**

Cancel digital Confirm: Y / N

**y**

## Automatic Saving of Searches

On Questel, there is often no need for a temporary save search command, because while you are connected, every search statement entered in a file is retained even as you change files. So if you carry out a strategy in one database, it is retained as you move into another database, and when you reenter a file, you will not be at search statement 1, rather where you left off.

Additionally, a search is automatically saved for two hours after a session is ended. To reuse a search when reconnecting to the system within the 2 hour period, answer 'Y' to the question: "Continue the search in Questel: Y / N?"

```
C) QUESTEL 1994
QUESTEL (TM) 1998          13/01/06 15*41*45
Last connection: 13/01/06 15*32*02

WELCOME to QUESTEL - Your Guide to INTELLECTUAL PROPERTY
www.questel.com - Gateway, documentation & IP resource
- Times of operation of Questel service, see INFO HOURS
- DE Full-text files (2004 to date) FactSheet: DEFULLA/B/U/T
- * FamPat : see details of worldwide family file on website
- PatentExaminer enhancement: integration of FamPat database
- IPC version 8 information : see our website documentation
- GBFULL: Fulltext GB Applications released - see Fact Sheet
- 2006 Euro and US Dollar price lists available from website

Continue the search in Questel: Y / N
```

y

Should you wish to reexecute a search from one file into another file, simply use the **EXECUTE (EX)** command:

**EX [ FROM <database name> ]** use FROM option to specify the file with original strategy from

**EX m-n FROM <database name>** where m,n - search statements numbers that have to be re-executed in the new database

### Step 1

Select the database and develop the search strategy.

**fi dwpi**

**(hair 3d dye+) or (hair 2d colo+) and pd=2005**

```
Frequency Term
52409 HAIR
52409 HAIR
236778 DYE+
683597 COLO+
```

```
** SS 1 : Results 1.319
```

**prt ti**

```
1/1319 DWPI - (C) Thomson Derwent- image
CPIM Thomson Derwent
TI - ***Dyeing*** brush for ***hair*** dyeing, uses cutout formed in upper
opening side face of tube in which oval base of bolt threaded through
knob fixed in handle to fit attachment having teeth and outlets and
extension of cover
```

## Step 2

Change the database and reexecute the search strategy.

**file fampat**

**ex from dwpi**

```
<<(HAIR 3D DYE+) OR (HAIR 2D COLO+)>>
```

```
Frequency  Term
   52695   HAIR
   52695   HAIR
  181142   DYE+
  642505   COLO+
```

```
** SS 1: Results 596
```

## Displaying Online Search Results

Questel offers a number of different options in displaying results:

- PRT** displays retrieved records in the specified format.
- FOCUS (FO)** displays only those sections of a record that surround the retrieved search term(s). Search terms are underlined with dashed lines in red color.
- KWIC** displays Key Words in Context.

## Standard Questel Display Formats

- TEST** Title terms, accession number, Derwent class -- *FREE format (unless specified otherwise in the Price List)*
- STDR** Enhanced title, accession number, Derwent class, patent assignee, patent number, priority information -- *Default format*
- FULL** Displays all fields except subscriber coding
- MAX** Complete record
- IMG** Image only

*Note: Display formats vary from database to database. Please consult the Database FactSheets for the complete description.*

## PRT Command

Use the PRT command to display records. You have the option of specifying the format or fields to be displayed, the number of records and from which set to display them.

*Default format:*

**PRT** displays the first record from the last results set in the **STDR** format. This command is equivalent to: **PRT STDR 1**

Enter search command:

**interactive graphics**

\*\* SS 1: Results 71

**"3d" and (or video, game, software)**

\*\* SS 2: Results 1.019

To display (print) results:

**prt**

1 / 1019 PLUSPAT - @QUESTEL - image

PN- WO03045046 A2 20030530 [WO200345046]  
STG- (A2) Publ. Of int. Appl. W/out int. Search rep  
TI- (A2) 3D STEREOSCOPIC/MULTIVIEW VIDEO PROCESSING  
SYSTEM AND ITS METHOD  
OTI- (A2) SYSTEME ET PROCEDE DE TRAITEMENT VIDEO  
STEREOSCOPIQUE/MULTIVUE  
TRIDIMENSIONNEL  
PA- (A2) ELECTRONICS AND TELECOMM RES I (KR)  
PA0- ELECTRONICS AND TELECOMMUNICATIONS RESEARCH  
INSTITUTE; 161, Gajeong-dong,  
Yuseong-gu,, 305-350 Daejeon (KR)  
IN- (A2) CHO SUK-HEE; LEE JINHWAN; YUN KUG-JIN; AHN  
CHIETEUK; CHOI YUNJUNG  
IC- (A2) H04N  
LA- ENGLISH (ENG)  
AP- WOKR0202181 20021121 [2002WO-KR02181]  
PR- KR2001072603 20011121 [2001KR-0072603]  
EC- H04N-013/00S4M  
H04N-013/00S6C  
H04N-013/00S6M  
H04N-013/00S6T

\*Display Abbreviated

**Display specific records**

**PRT format n**

**PRT n-m**

**PRT TEST 1-6**

**PRT MAX 5**

**PRT TEST 3 5 7-10**

Displays the first 6 records (1 through 6) in TEST format

Displays the 5th record using the MAX display format

Displays the records 3,5 and 7 through 10 in TEST format

**prt test 5**

```
5 / 1019 PLUSPAT - @QUESTEL - image
TI - (A1) VIRTUAL REALITY GAME SYSTEM WITH PSEUDO 3D DISPLAY
      DRIVER & MISSION CONTROL
OTI - (A1) SYSTEME DE JEU DE REALITE VIRTUELLE COMPORTANT DES
      PSEUDO-COMMANDES D'AFFICHAGE 3D ET UNE COMMANDE DE
      MISSION
IC - (A1) A63F-009/24
EC - A63F-013/12
      G02B-027/01C
      H04N-013/00S2M1
      H04N-013/00S2Y
      H04N-013/00S4G9
ICO - K63F-300/40N
```

To display the selected record(s) from the specific search statement and format other than standard (STDR) use the following display command syntax:

**PRT SS N format/fields n-m/set <legal option>**

where SS N - search statement number  
format/fields - specified display format *OR* specific fields to be displayed  
(several fields can be separated by the space)  
n, n-m - record number(s) *OR* SET for complete results set  
legal option - one of the legal formats (LEGAL, LEGALIFI, LEGALALL etc.)

**Display from previous search statements: PRT SS N**

<b>PRT SS 2 TEST 1-6</b>	Displays the first 6 records from results set number 2 in TEST format
<b>PRT SS 5 10-15</b>	Displays the records 1 through 15 from results set number 5 in STDR format
<b>PRT SS 1 MAX 3</b>	Displays the 3rd record from results set number 1 in MAX format

For example, to display the 7th record from the results set for the search statement 1 (*interactive graphics*) using the FULL format:

<b>prt ss 1 full 7</b>	<pre>7 / 71 PLUSPAT - @QUESTEL PN - US2002111790 A1 20020815 [US20020111790] TI - (A1) Universal computer controlled display terminal       adapted to receive withdrawable user cards with stored user       data for personalizing interactive graphic display interface PA - (A1) IBM (US) PA0 - International Business Machines Corporation, [US] IN - (A1) MULLEN SHAWN P (US); SHIEH JOHNNY M (US); MCBREARTY       GERALD FRANCIS (US) AP - US72629201 20010212 [2001US-0726292] PR - US72629201 20010212 [2001US-0726292] IC - (A1) G06F-017/28 EC - G06F-003/033A1       G06F-003/033D2T PCL - ORIGINAL (O) : 704007000 DT - Basic</pre>
------------------------	---

	<p>STG - (A1) Utility Patent Application published on or after January 2, 2001</p> <p>AB - A universal computer controlled display terminal provided with a withdrawable card with stored data specific to the user of said card and a process responsive to the stored data for displaying on said terminal a layout of user interactive graphics personalized to said user. The invention is very effective in display terminals including a user interactive input touch screen having said layout of graphics personalized to said user. The layout of graphics may include a set of enlarged touch pads. The layout may also include images personalized to said user. The user card may also include integrated circuitry associated with said stored data, e.g. a smartcard. The data displayed responsive to the data stored on the card may also include text personalized to the user. The text may be in a language personalized to said user, or the text may be in an enlarged character font.</p> <p>UP - 2002-34</p>
--	---

Note: Questel supports the keywords in context option - search terms are highlighted or underlined, as specified with the **POP HLI**G command. See User Options Setup (p. 6)

## Basics Review

### Setting up the UserID

POP To display permanent user options

OP To display temporary user options

### Basic Searching

FILE View the list of the available databases

FILE <database name> Access a database of choice

INFO <database name> Display the online database help file

PRT Display records

PRT <format> n1-n2 Display records, specifying format and range of records

### Proximity Operators

D Adjacency, any order

W Adjacency, specified order (*Implied proximity*)

F Field

P Paragraph

S Sentence

L Link

### Truncation

+ Right-hand and left-hand truncation

? Up to one character (0-1)

# Exactly one character

### Search History

HIS (HI) Display the complete search strategy

HI n Display the specific search statement

HIS SHORT Display a summary of the search strategy for the entire session

BACKUP Remove the last search statement

BACKUP n Remove the search sets after and including the specific SS N

ER n Erase the particular search statement number from the strategy

ERSLL Erase all existing search statements

### Saving Strategies

SAVE Saves a search strategy temporarily for seven days

STORE Saves a search strategy permanently

SHO Shows the search strategy

EX Executes a search strategy

PURGE Erases a search strategy

## **Practice Exercises**

1. Change your POP settings so the AUDIT option is turned on.
2. Enter the WOPATENT file and search for sulfide(s).
3. Search for chlorine gases. Experiment with truncation and proximity operators.
4. Display your search history and keep only the statements for the search on chlorine gases.
5. Change to the DWPI file. Find records covering cell phones. Display the first 3 records.

## Section II

### Searching Patents

#### Using Qualification

Use field qualifiers in a search to target a search term to a particular field. Terms can be pre- or post-qualified, as shown:

<b>/field term</b>	e.g. /ab optical	where AB - abstract field
<b>term/field</b>	e.g. optical/ab	

#### Example

Limiting the search to the **TITLE** field

```
/ti fiber optics  
** SS 1: Results 141  
  
H04Q-007/20R4/ec  
** SS 2: Results 206  
cellular phone/ti  
** SS 3: Results 2592  
(hydrant and fire and portable)/ab  
** SS 4: Results 15  
  
/ab hydrant and fire and portable  
** SS 5: Results 15  
/ab and hydrant, fire, portable  
** SS 6: Results 15  
  
microsoft/pa and 1998/pn  
** SS 7: Results 1345  
  
ibmc/cc and BROWN/in  
** SS 8: Results 465
```

Use **pre-qualification** for several terms or expressions in a single statement (note the single use of the operator with several search terms)

Multiple qualification: *Please note that microsoft/pa and /pn 1998 will not process. Use the format described to the right.*

#### Qualifying to Multiple Fields

It is possible to qualify to more than one field at a time using the following format:

**search\_term/ field1/ field2**

For example, to qualify to both patent assignee and inventor fields use:

**thompson a/pa/in**

Frequency	Term
7373	THOMPSON/IN
3068	THOMPSON/PA
383220	A/IN
461430	A/PA

\*\* SS 9: Results 144

**Important**

On Questel, use the slash before each field tag, e.g. **thompson+/pa/in**

## Browsing the Index

When search terms are entered without any qualification, Questel is searching the Basic Index - usually a collection of words from the title, abstract and index word fields. It is possible to browse the basic index to check the variations and surrounding words.

Use **NBR** to check the full names for the database field.

**NBR**<search\_term>

**nbr inflatable**

```

Displaying  /BI
1          1  INFLATABE
2          1  INFLATABEL
3         14  INFLATABILITY
4          2  INFLATABLE
5       17476 INFLATABLE
6          1  INFLATABLEA

7          1  INFLATABLEBLADDER
8          1  INFLATABLECHAMBER
9          1  INFLATABLEDEVICE
10         2  INFLATABLEE
11         1  INFLATABLEHOSE
12         1  INFLATABLELIFE
13         1  INFLATABLEOR
14         1  INFLATABLEPASSAGEWAYS
15        38  INFLATABLES
Some: numbers / Continue: Y / None: N
  
```

/BI Indicates Basic Index field

1<sup>st</sup> column Index number  
 2<sup>nd</sup> column Number of occurrences in the database  
 3<sup>rd</sup> column Actual term

A listing of 15 terms is automatically displayed, with the requested search term appearing in the 5th position. From this display, you can select desired terms by typing the appropriate numbers, or continue to scroll through the index.

## Browsing a Specified Index

**NBR** /<field> <search\_term>

**nbr /pa netscape**

```

Displaying  /PA
1          1  NETSA
2          1  NETSAGE
3         14  NETSAL
4          1  NETSAREN
5        11  NETSCAPE
6          5  NETSCH
7          2  NETSCHERT
8          1  NETSERVICE
9          1  NETSETAEV
10         1  NETSKOKANKI
11         1  NETSKY
12         2  NETSOKIGU
13         1  NETSPEAK
14         5  NETSPEED
15         1  NETST
  
```

**nbr /pan netscape**

```

Displaying  /Pan
1          1  NETRVAL J
2          1  NETS
3         85  NETS-
4         13  NETS/
5          1  NETSAGE CORP
6        11  NETSCAPE COMMUNICATIONS CORP
7          3  NETSCH H
8          1  NETSCH M
9          1  NETSCH W A
10         1  NETSCHERT C O
11         1  NETSCHERT W C
12         1  NETSETAEV MA VOLODARSKII
13         1  NETSKY M
14         1  NETSPEAK CORP
15         5  NETSPEED INC
  
```

/PA Indicates Patent Assignee index  
 /PAN Indicates Patent Assignee name index

PA is a single-word index  
 PAN is a phrase index  
 The same index structure exists for IN - Inventor and INN - Inventor Name indexes.

*Important*

Questel uses field pre-qualification, e.g. **nbr /pa netscape**

## Patent Assignee / Inventor Searching

### Step 1

Select the database

### Step2

Use the database index to search for Patent Assignee or Inventor Name using the phrase index PAN and the following format:

### NBR /pan <Patent Assignee name>

The left column represents the index numbers, second column represents the number of records that contain the term(s) listed in the third column. Use index numbers to select the relevant index entries and type 'Y' to see the next page of index entries, select more numbers (if the entries are appropriate), type 'N' when all the relevant index entries were selected. The system will search all the selected entries and present the total number of retrieved results.

Use the stack (;) feature to stack statements and directly continue to the next list;

Since the hyphen comes after the space, you should always check adjacency by also using the terms with a hyphen.

Eight more records are retrieved.

fi fampat

/pa unilever emery

Frequency	Term
12331	UNILEVER/PA
1356	EMERY/PA

\*\* SS 1: Results 64

nbr /pan unilever emery

Displaying	/Pan
1	1 UNILEVER BESTOODS NORTH AMERIC
2	2 UNILEVER BV
3	1 UNILEVER CO
4	1 UNILEVER EMERY N V
5	64 UNILEVER EMERY
6	1 UNILEVER EMERY V
7	1 UNILEVER EMERY N U
8	1 UNILEVER EMERY N V
9	26 UNILEVER EMERY NV
10	1 UNILEVER EMERY PLC
11	1 UNILEVER ERMERY N V
12	2 UNILEVER FORSCHUNGS GMBH
13	11 UNILEVER GMBH DEUTSCHE
14	5 UNILEVER H B
15	1 UNILEVER H V

Some: numbers / Continue: Y / None: N

4-11;n

\*\* SS 2: Results 65

nbr /pan unilever-emery

Displaying	/Pan
1	1 UNILEVER TAIWAN LTD
2	1 UNILEVER U K
3	4 UNILEVER U.K. CENTRAL RESOURCES LTD
4	10 UNILEVER UK CENTRAL RESOURCES
5	1 UNILEVER VERKOOPCENTRALE N V
6	4 UNILEVER-EMERY N. V
7	3 UNILEVER-EMERY N.V
8	1 UNILEVER-EMERY N.V.
9	1 UNILEVER, LONDON [GB]
10	2 UNILEVER, N.V.
11	1 UNILEVER, N.V., [NL]
12	1 UNILEVER, PLC
13	1 UNILEVERJ UCOWIE W P
14	1 UNILEVRE N V
15	1 UNILEVRE NV

Some: numbers / Continue: Y / None: N

6-8;n

\*\* SS 3: Results 8

The search history audits all of the terms included in the search set

You will need to OR search sets to combine all answers when using the terms both with and without a hyphen.

**NBR /inn <Inventor name>**

Using the bound-phrase Inventor Name (INN) index allows to retrieve all the pertinent entries from the index list.

When searching for assignee, inventor or company, it is recommended that you use the NBR to display the database index due to the possible name variations.

his

File : FAMPAT

SS Results

1	64	/PA UNILEVER EMERY
2	65	..INDEX /Pan UNILEVER EMERY N V UNILEVER EMERY UNILEVER EMERY V UNILEVER EMERY N U UNILEVER EMERY N V UNILEVER EMERY NV UNILEVER EMERY PLC UNILEVER EMERY N V
3	8	..INDEX /Pan UNILEVER-EMERY N. V UNILEVER-EMERY N.V UNILEVER-EMERY N.V.

2 or 3

\*\* SS 4: Results 65

**/in wright gary**

13301 WRIGHT/IN  
38224 GARY/IN

\*\* SS 5: Results 13

**nbr /inn wright gary**

Displaying	/Inn	
1	1	WRIGHT GARRET SNEDEKER
2	1	WRIGHT GARRY E
3	1	WRIGHT GARRY RALPH
4	7	WRIGHT GARTH
5	1	WRIGHT GARY
6	1	WRIGHT GARY C
7	1	WRIGHT GARY G
8	2	WRIGHT GARY J
9	3	WRIGHT GARY JOHN
10	3	WRIGHT GARY L
11	1	WRIGHT GARY RAYMOND
12	1	WRIGHT GARY STEPHEN
13	2	WRIGHT GARY T
14	2	WRIGHT GARY THORUP
15	15	WRIGHT GAVIN

Some: numbers / Continue: Y / None: N

5-14;n

\*\* SS 4: Results 13

## Patent/Publication Number Searching

### Step 1

Select the database.

### Step 2a

If the patent authority numbers its patent documents as a continuous series, use the following format

#### CCNNNNNNNN/pn

where CC - 2 character country code  
NNNNNNN-7 digit patent/publication number

*Note 1: You do not need to zero fill the*

**OR**

### Step 2b

If the patent authority restarts its number series each year, then use the following format:

#### CCYYNNNNN/pn

where CC - 2 character country code  
YY - 2 last digits of a year  
NNNNN - 5 digit patent/pub. number

*Note: If the number is less than 5 digits, fill the spaces after the year\* with zeroes to build a total of 9 characters: SE8700145*

*\*Post year 2000 - total of 11 characters, use the 4-digit year, e.g. WO200000001*

**OR**

### Step 2c

There are exceptions to these general rules. Japanese (JP) and German (DE)

patent/publication numbers may be 8 digits.

*Note: Use the publication on Formatting Japanese Numbers for searching on Questel (when to use the Imperial or Western Year etc.)*

**OR**

### Step 2d

You can also search the publication number by having the Application Number, then displaying the record for the PN field; use the following format.

#### YYYYCC-NNNNNNN/AP

Note: If number is less than 7 digits, fill with zeroes.

fi fampat

ep234/pn

\*\* SS 1: Results 1

prt

```
1/1 FAMPAT - (C) QUESTEL
FAN - 20042740800136
PN - IT7825097          DO 19780628  [IT7825097]
    - EP0000234          A1 19790110  [EP----234]
    - BR7804160          A  19790220  [BR7804160]
    - AU3759478          A  19800103  [AU7837594]
    - FR2428073          A1 19800104  [FR2428073]
    - DE2857164          A1 19800221  [DE2857164]
    - GB2040985          A  19800903  [GB2040985]
    - GB2040985          B  19821020  [GB2040985]
    - AU525487           B2 19821111  [AU-525487]
    - FR2428073          B1 19831125  [FR2428073]
    - IT1097132          B  19850826  [IT1097132]
TI - Low-phosphate detergent composition for
fabric washing.
PA - PROCTER & GAMBLE
PA0 - PROCTER AND GAMBLE CY
IN - COCKRELL JOHN ROBERT JR
AP - 1978IT-0025097 19780628; 1978DE-2857164
19780628; 1979GB-0025946 19780628; 1978EP-0200064
19780628; 1978AU-0037594 19780629; 1978BR-0004160
19780629; 1979FR-0013433 19790525
PR - 1977US-0811221 19770629; 1977US-0852428
19771117
IC - C11D-001/60 C11D-001/62 C11D-001/72 C11D-
001/835 C11D-001/835
EC - C11D-001/60
    - C11D-001/62
    - C11D-001/72
    - C11D-001/835
ICO - M11D-001/60
    - M11D-001/62
    - M11D-001/72
DS - (EP----234)
    DE FR GB
UP - 2000-08
```

de19617344/pn

\*\* SS 3: Results 1

jp05109198/pn

\*\* SS 4: Results 1

1986US-0901733/ap

\*\* SS 5: Results 1

## Application/Priority Number Searching

### Step 1

Select the database.

### Step 2

Search for Application/ Priority Numbers.

#### Application Numbers:

Use /AP qualifier to search the application number (use Y2K and 7-digit format):

#### YYYYCC-NNNNNNN/ap

Do not forget to backfill with zeros for missing digits

Note: PCT applications have the following format:

#### YYYYWO-CCNNNNN/ap

(Here CC is the first filing country.

Example: 2001WO-US30133)

#### Priority Numbers

Use the /PR qualifier to search the priority number (use Y2K and 7-digit format):

#### YYYYCC-NNNNNNN/pr

#### YYYYWO-CCNNNNN/pr (for PCTs)

Do not forget to backfill with zeros for missing digits.

Note: always use Western year when searching for the Japanese Application and Priority numbers

Use the following format to search for both application and priority numbers:

#### YYYYCC-NNNNNNN/ap/pr

fi pluspat

1992jp-0004512/ap

\*\* SS 13: Results 1

prt

1 / 1 PLUSPAT - @QUESTEL - image  
PN-JP5191362 A 19930730 [JP05191362]  
STG-(A) Doc. Laid open to publ.  
Inspec.  
TI-(A) DIGITAL VOICE COMMUNICATION  
METHOD  
PA-(A) MATSUSHITA ELECTRIC IND CO LTD  
PA0-(A) MATSUSHITA ELECTRIC IND CO LTD  
IN-(A) ASANO NOBUO; KATO OSAMU  
IC-(A) H03M-013/00 H04B-014/04  
PN2-JP3120523 B2 20001225 [JP3120523]  
STG2-(B2) Grant. Pat. With A from  
2500000 on  
IC2-(B2) H03M-013/37 H04B-014/04  
AP-JP451292 19920114 [1992JP-0004512]  
PR-JP451292 19920114 [1992JP-0004512]

1991US-0756931/pr

\*\* SS 14: Results 15

prt

1/15 PLUSPAT - @QUESTEL  
PN-KR266472 B1 20000915 [KR-266472]  
STG-(B1) Examined pat. App. (2nd pub.)  
B5  
TI-(B1) COMPOUNDS LL-E19020 EPSILON  
AND LL-19020 EPSILON1  
PA-(B1) HOFFMANN LA ROCHE (CH)  
IN-(B1) GUY THOMAS CARTER (US); JOSEPH  
J GOODMAN (US)  
IC-(B1) C07H-015/232  
AP-KR9216401 19920908 [1992KR-0016401]  
PR-US75693191 19910909 [1991US-  
0756931]  
UP-2001-27

2002US-0002888/ap/pr

\*\* SS 15: Results 1

## How to Check a Field Qualifier

If in doubt about the available field qualifiers for a database, please check the Database Fact Sheets.

### Presence of a Field in a Record

On Questel there is a way to limit the retrieval of results to those records that contain a specific field.

Use the **<field>=YES** option in your search to ensure that the records retrieved contain the wanted data element.

This option can be entered as a separate search statement to isolate all of the records in a database to those containing the desired field, for example:

**OPP=YES** retrieves all records in EPPATENT containing the Opponent field

Also, it can be combined with a search term or statement to restrict a set of results to those records containing the field, for example:

**nike/pa and OPP=YES** limits patent records assigned to Nike to those with OPP data

**3 and OPP=YES** limits records in search statement 3 to those with the OPP field

For example, to locate all the records in the DWPI file that contain the abstract and are classified under "Coffee; Coffee Substitutes; Preparations thereof" of the IPC:

```
a23f-005/ic
** SS 1: Results 2.660
```

```
1 and ab=yes
** SS 2: Results 2.594
```

## Searching Updates

It is possible to limit the search results to a specific update, a range of updates, or update years.

### Ranging on Updates

#### UP n

where n is the update number  
Use 1 for the most recent update

**UP n-n** for an update range

**UP YYYY-YYYY** range of years

**UP ALL** return to the complete database

```
fi fampat
```

```
up 1
```

```
Updates selected: since 2006/01/04
```

```
up 1-10
```

```
Updates selected: since 2005/11/02
```

```
up 2003-2004
```

```
Updates selected:  
from 2003/01/01 to 2004/01/05 excluded  
(This is what you will see displayed;  
excluded should actually be included.)
```

```
up all
```

```
All updates selected
```

## Database Subset Limiting

Questel allows to limit the search to a subset of the database.

Subsets can be based on:

- previous search statements;
- search term or range of term(s) with or without field qualification;
- combination of search term(s) and Boolean logic operators;

**LIM N** where N is a search statement number the subset is created on

```
/pa unilever
```

```
** SS 2: Results 12.331
```

```
lim 5
```

```
** SS 6: Results 12.331  
Search limited to 12331 documents  
Limitation starting with SS 6
```

```
us/pn
```

```
** SS 7 (LIM) : Results 4.095
```

```
lim all
```

*Note:* Use **LIM ALL** to return to the complete database.

**LIM search\_term** where the subset is created on a search term

```
lim /pn jp (L) 199811
```

```
** SS 5: Results 26.938  
Search limited to 26938 documents  
Limitation starting with SS 5
```

```
toshiba/pa
```

```
** SS 10 (LIM) : Results 908
```

```
lim all
```

*Note:* Use **LIM ALL** to return to the complete database.

## Date Ranging in the Patent Files

On Questel, it is a simple matter to specify date ranges with the patent/publication date or priority date. The following descriptions apply to most patent files, however check the Database Fact Sheet for details.

**YYYY-MM-DD**

Ranging can be specified in the following formats (for all the date fields - PD, APD, PRD):

<b>PD=YYYY:YYYY</b>	year only
<b>PD=YYYY-MM:YYYY-MM</b>	year, month
<b>PD=YYYY-MM-DD:YYYY-MM-DD</b>	year, month, day

*Use : (colon) to separate the date range.*

## Searching Patent/Publication dates

Use the **PD=** qualifier to search the single or the range of *Patent/Publication dates*:  
It is also possible to use numeric operators: =,<,>,<=,>=.

<b>pd=YYYY</b>	<b>pd=YYYY:YYYY</b>
<b>pd=YYYY-MM</b>	<b>pd=YYYY-MM:YYYY-MM</b>
<b>pd=YYYY-MM-DD</b>	<b>pd=YYYY-MM-DD:YYYY-MM-DD</b>

It is possible to combine date searching or date ranging with keywords or existing search sets:

**TERM and pd=YYYY**  
**N and pd=YYYY:YYYY**                      where N - search statement number

## Example (PLUSPAT file)

```
pd=1996:2003
** SS 1: Results 10.212.149
```

```
human? and (clone? or cloning)
** SS 2: Results 3.301
```

```
2 and pd=1999
** SS 3: Results 292
```

```
2 and pd>=1994
** SS 4: Results 2.102
```

```
pd=1996:1999 and 2
** SS 5: Results 935
```

```
2 and pd=2003-04-24
** SS 6: Results 2
```

**2 and pd=1998-01:2003-01**  
\*\* SS 7: Results 1.421

*Note: For FamPat and DWPI, use /PN to link (L) the date with the PC (patent country) field:*

**/pn jp L 1990            or        jp/pn L 1990/pn**  
**/pn jp L 19910815       or        jp/pn L 19910815/pn**

## Searching Application dates

Searching the *application date* is possible in the following formats and /APD qualifier:  
It is also possible to use numeric operators: =,<,>,<=,>=.

**apd>=YYYY                                    apd=YYYY:YYYY**  
**apd=YYYY-MM                                apd=YYYY-MM:YYYY-MM**  
**apd=YYYY-MM-DD                            apd=YYYY-MM-DD:YYYY-MM-DD**

**(computer 2d graphics) and apd>1995**  
\*\* SS 8: Results 631

**computer graphics and apd=1998-01:1999-01**  
\*\* SS 9: Results 57

*Note: For FamPat and DWPI, use /AP or /APC to link (L) the date with the /APC application country code field:*

**/apc jp L 1990        or        jp/ap L 1990/ap**

## Searching Priority dates

Searching the *priority date* is possible in the following formats and /PRD qualifier:  
It is also possible to use numeric operators: =,<,>,<=,>=.

**prd<=YYYY                                    prd=YYYY:YYYY**  
**prd=YYYY-MM                                prd=YYYY-MM:YYYY-MM**  
**prd=YYYY-MM-DD                            prd=YYYY-MM-DD:YYYY-MM-DD**

**computer graphics and prd=1997-03-01:1997-06-01**  
\*\* SS 10: Results 68

*Note: For FamPat and DWPI, use /PR or /PRC to link (L) the date with the /PRC priority country code field:*

**/prc jp L 1990        or        jp/pr L 1990/pr**

## Searching Patents Review

### Using Field Qualification

<b>/field term</b>	Pre-qualification of search terms
<b>term/field</b>	Post-qualification of search terms
<b>/field term AND term/field</b>	Combine pre- and post-qualification of search terms <i>(term post-qualification after the Boolean operator is required)</i>
<b>term / field1/field2 /field1/field2 term</b>	Multiple fields qualification
<b>&lt;field&gt;=YES</b>	Check for the presence of a field in a record
<b>CCNNNNNNN/pn</b>	Search patent/publication number
<b>NBR &lt;search_term&gt;</b>	Browse a basic index
<b>NBR /field &lt;search_term&gt;</b>	Browse a specified index

### Database Subset Searching

<b>UP</b>	Check the database update listing
<b>UP n</b> is <b>UP n-n</b>	Limit search to a specific update or range of updates (n the update number, 1 is the most recent update)
<b>UP YYYY</b>	Limit search to an update for a specific year or range of
<b>UP YYYY-YYYY</b>	Updates
<b>UP ALL</b>	Return to the complete database
<b>LIM search_term(s)</b>	Limit search to a specific search term(s) (or combination of search terms with logical or proximity operators)
<b>IM N</b>	Limit search to previous search set number
<b>LIM ALL</b>	Return to the complete database

### Date Range Searching

	(Use with /PD, /APD, /PRD)
<b>PD=YYYY:YYYY</b>	Publication year only
<b>PD=YYYY- MM:YYYY- MM</b>	Publication year, month
<b>PD=YYYY- MM-DD:YYYY- MM-DD</b>	Publication year, month, day

## Practice Exercises

6. Using the UP command in DWPI, how many patents have been issued to 3M (/CC MINN) in 2005?
7. Using FamPat, find the French patent with Japanese priority number JP-0289641 from 1997. Display the record. Are there any additional records in FamPat with that priority?
8. Switch to the EPPATENT file. Using the neighbor command, find all Hoechst Celanese patents. How many were opposed with publication year 1996?
9. In the FamPat file, create a subset (LIM command) of Motorola patents. Search for patents invented by D. Leeds. How many patents has this person invented with Motorola as patent assignee?
10. How many patents were issued to Medtronic between June 1 2007 and May 31 2008?

## Section III Displaying Results

### Tailored field display: PRT FF (2-letter code)

<b>PRT TI AB 1-3</b>	Displays title and abstract for the first 3 records (1 through 3)
<b>PRT PA PN SS 2 1-10</b>	Displays patent assignee and patent/publication number for the first 10 records from results set number 2

To display the Title, Patent Assignee and Patent/Publication Number for records 4 through 6 from the results set for the search statement 1 (*interactive graphics*) use:

#### **prt ss 1 ti pa pn 8-10**

8/59 PLUSPAT - @QUESTEL - image

TI - (A2) ABSORBENT ARTICLES HAVING WETNESS INDICATING GRAPHICS INCORPORATING  
A TRAINING ZONE  
PA - (A2) KIMBERLY CLARK CO (US)  
PN - WO200076439 A2 20001221 [WO200076439]

9/59 PLUSPAT - @QUESTEL - image

TI - (A) Interactive graphics display system for a fuel dispenser  
PA - (A) DRESSER IND (US)  
PN - US6152591 A 20001128 [US6152591]

10/59 PLUSPAT - @QUESTEL

TI - (A) Computer system supporting portable interactive graphics display  
tablet and communications systems  
PA - (A) DIAMOND MULTIMEDIA SYSTEMS INC (US)  
PN - US6084584 A 20000704 [US6084584]

#### **prt ss 2 8 stdr plus ab**

8 / 59 PLUSPAT - @QUESTEL - image

PN- WO200076439 A2 20001221 [WO200076439]  
STG-(A2) Publ. Of int. Appl. W/out int. Search rep  
TI-(A2) ABSORBENT ARTICLES HAVING WETNESS INDICATING GRAPHICS INCORPORATING  
A TRAINING ZONE  
OTI- (A2) ARTICLES ABSORBANTS POURVUS D'ELEMENTS GRAPHIQUES INDIQUANT LA PRESENCE  
D'HUMIDITE ET FOURNISSANT UNE AIDE DIDACTIQUE  
PA- (A2) KIMBERLY CLARK CO (US)  
PA0- KIMBERLY-CLARK WORLDWIDE, INC. ; 401 N. Lake Street Neenah, WI 54956 (US)  
IN- (A2) CAMMAROTA MARK THOMAS; MACDONALD GREGORY ALLEN; LEE MEEWHA; JORDAN  
MARY PATRICIA; RATLIFF KATHLEEN IRENE  
IC- (A2) A61F-013/00  
PN2- WO200076439 A3 20010208 [WO200076439]  
STG2- (A3) Subsqu. Publ. Of int. Search report  
TI2- (A3) ABSORBENT ARTICLES HAVING WETNESS INDICATING GRAPHICS INCORPORATING A  
TRAINING ZONE  
OTI2- (A3) ARTICLES ABSORBANTS POURVUS D'ELEMENTS GRAPHIQUES INDIQUANT LA  
PRESENCE D'HUMIDITE ET FOURNISSANT UNE AIDE DIDACTIQUE  
PA2- (A3) KIMBERLY CLARK CO (US)

IN2- (A3) CAMMAROTA MARK THOMAS; MACDONALD GREGORY ALLEN; LEE MEEWHA; JORDAN MARY PATRICIA; RATLIFF KATHLEEN IRENE

IC2- (A3) A61F-013/42

LA- ENGLISH (ENG)

AP- WOUS0016542 20000615 [2000WO-US16542]

PR- US33322399 19990615 [1999US-0333223]

EC- A61F-013/42

DS- AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; ARIPO Patent (GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW); Eurasian Patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM); European Patent (AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE); OAPI Patent (BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG)

DT- Basic

UP- 2000-52

AB- A disposable absorbent article such as a training pant includes wetness Indicating graphics that provide an interactive training aid. The interactive Graphics can include a permanent character graphic and one or more active Object graphics, which "appear" or "disappear" from view in response to Exposure to urine or the environment. Various mechanisms are employed to Conceptually and/or visually separate the permanent character graphic from the interactive wetness indicating graphic, such that the character graphic remains independent in the child's mind from the process of toilet training.

## User-Defined Formats

The **FORMAT** (or **FOR**) command allows you to create your own formats, define the fields that this format will contain and use this format for both display of records and searching. **FOR** command lists the predefined display formats

**FOR<format\_name> <field 1> <field 2>...<field 10>** *Note: format name can be maximum 4 characters long. Maximum 10 fields per format is allowed*

### **Important**

On the Questel service, up to 10 user-defined formats are allowed per User ID. User-defined formats are independent of the database choice.

For example, to create a format that will include patent/publication number, title, patent assignee and priority data fields use the following command syntax:

**for pat pn ti pa pr**

Format entered: PAT

To use the user-defined format, include the format name with the PRT command instead of the system-defined formats. To display record number 2 from the 2<sup>nd</sup> results set for the search "3d" and (or video, game, software)

**prt ss 2 pat 2**

```
2 / 71  PLUSPAT - @QUESTEL
PN      -  RU2192040 C2 20021027 [RU2192040]
TI      -  (C2) SYSTEM AND METHOD FOR INTEGRATING MESSAGE IN GRAPHICS MEDIUM
PA      -  (C2) DIDZHITAL MARKETING KOM JUNIKE (US)
PR      -  US86812297 19970603 [1997US-0868122]
```

Use the same FOR command to create a customized search format P that will contain Application Number (AP) and Priority Number (PR) fields:

**for APR ap pr**

Format entered: APR

This format can be used for the simultaneous searching of the AP and PR fields and also for the record display:

**1985us-0797147/APR**

\*\* SS 3: Results 1

**prt apr**

```
1 / 2  PLUSPAT - @QUESTEL - image
AP      -  US79714785 19851112 [1985US-0797147]
PR      -  US79714785 19851112 [1985US-0797147]
```

To display user-defined formats use the FORMAT USER (or FOR US) command:

**for user**

```
PAT <--- PN      TI      PA      PR
APR <--- AP      PR
```

To delete the created format use the ERASE command:

**er for apr**

Cancel APR Confirm: Y / N

## Special Features

### Legal Feature

The Legal Feature on Questel allows the automatic display of corresponding legal status information from within any patent database. This easy-to-use feature, executed at the time of display, saves time in crossfile searching and post processing.

*Note: Legal Feature only works in single file mode and is not available in a cluster or multifile environment.*

The following commands give you flexibility in displaying the legal status information from one or a combination of Questel legal status databases.

<b>Print Option</b>	<b>Displays Legal Status Records from</b>
<b>LEGAL</b>	LGST (Legal Status)
<b>LEGAL MAXE</b>	LGST (Legal Status) - English text only
<b>LEGALEP</b>	EPPATENT (European Patents)
<b>LEGALIFI</b>	CRXX (Claims/Reassignments)
<b>LEGALERT</b>	LITA (LitAlert)
<b>LEGALUS</b>	CRXX (Claims/Reassignments), LITA (LitAlert)
<b>LEGALALL</b>	LGST (Legal Status), CRXX (Claims/Reassignments), & LITA (LitAlert)

### Display using the Legal Feature: PRT <legal feature>

<b>PRT LEGAL</b>	Displays the first record from the last results set and legal status information
<b>PRT MAX LEGAL MAXE</b>	Displays the 1st record from last results set in MAX format, Legal Status (Eng.)
<b>PRT SS 3 MAX 1-5 LEGALALL</b>	Displays records 1 thru 5 from results set number 3 in MAX format including all the legal status information available (from CRXX, LGST, LITA)

For example, to display the 1st record from the results set using the STDR format and including all the legal status information available:

```
US6502643/pn
** SS 8: Results 1
prt legalall
1 / 1  PLUSPAT - @QUESTEL
PN      -  US6502643 B1 20030107 [US6502643]
STG     -  (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
TI      -  (B1) Low pressure, early suppression fast response sprinklers
PA      -  (B1) CENTRAL SPRINKLER COMPANY (US)
PA0     -  Central Sprinkler Company, Lansdale PA [US]
IN      -  (B1) MEYER STEPHEN J (US); POLAN GEORGE S (US); GOLINVEAUX JAMES E
          (US)
```

IC - (B1) A62C-037/08  
AP - US18399098 19981102 [1998US-0183990]  
PR - US18399098 19981102 [1998US-0183990]  
US81378097 19970307 [1997US-0813780]  
EC - A62C-037/11  
PCL - ORIGINAL (O) : 169037000; CROSS-REFERENCE (X) : 169038000  
169039000  
169040000 169041000  
DT - Corresponding document  
UP - 2003-04

1 / 1 LGST - @LEGSTAT

PN - US 6502643 [US6502643]  
AP - US 183990/98 19981102 [1998US-0183990]  
DT - US-P  
ACT - 19981102 US/AE-A  
APPLICATION DATA (PATENT)  
US 183990/98 19981102 [1998US-0183990]  
  
20030107 US/BA  
PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)  
  
20030527 US/CC  
CERTIFICATE OF CORRECTION  
UP - 2003-28

1 / 1 CRXX - @CLAIMS/RRX

PN - 6,502,643 A 20030107 [US6502643]  
PA - Central Sprinkler Co  
ACT - 20030617 CERTIFICATE OF CORRECTION

1 / 1 LITA - @Thomson Derwent

AN - P2003-15-32  
FS - PATENT (P)  
PN - US6502643 20030107 (Utility)  
PF - The Vikings Corporation  
DF - Central Sprinkler Company  
CT - NY, Southern Dist.  
DN - 03 CV 833  
FD - 2003-02-05  
ACT - A complaint was filed.  
OPN - US5829532  
US6336509

## Cited Feature

The Cited Feature on Questel allows automatic display of the corresponding EP, PCT, FR and US *patent and literature citations*. Executed at the time of record display to obtain citations information along with the retrieved record(s), this feature saves time in crossfile searching and post processing.

*Note: the Cited Feature only works in single file mode from within the Derwent World Patent Index (DWPI) database and it is not available in a cluster environment.*

Print Option	Patent and bibliographic citations from
CITEP	EPPATENT (European patents)
CITPCT	WOPATENT (WIPO)
CITFR	FRPAT (French patents)
CITUS	USPAT (U.S. patents)
CITEPPCT	EPPATENT, WOPATENT
CITALL	EPPATENT, WOPATENT, USPAT, FRPAT

To include the cited information with the record display, use the following command:

```
PRT <format> <n1-n2/set> <CITed feature >
```

For example, to display the complete US patent record and all the cited information available from EPPATENT, WOPATENT, USPAT, FRPAT databases:

```
US6054549/pn
```

```
** SS 1: Results 1
```

```
prt full citall
```

```
1 / 1  PLUSPAT - @QUESTEL
PN      -  US6054549 A 20000425 [US6054549]
TI      -  (A) Alkenyl ether functional polyisobutylenes and methods for the preparation
          thereof
PA      -  (A) DOW CORNING ASIA LTD (JP); DOW CORNING (US)
PAO     -  Dow Corning Asia, Ltd., Tokyo [JP]
          Dow Corning Corporation, Midland MI [US]
IN      -  (A) BAHADUR MANEESH (US); SUZUKI TOSHIO (US)
AP      -  US20003898 19981125 [1998US-0200038]
PR      -  US20003898 19981125 [1998US-0200038]
IC      -  (A) C08G-077/38
EC      -  C08F-008/00 C08F-010:08
PCL     -  ORIGINAL (O) : 528029000; CROSS-REFERENCE (X) : 524464000 524490000 524547000
          525474000
          528014000 528015000 528017000 528018000 528019000 528023000 528025000
DT      -  Corresponding document
CT      -  US4617238; US4808664; US4904732; US5270423; US5594042; US5629095; US5665823;
          EP462389;
          WO9104992; WO9211295
          Liao et al. "Polymer Bulletin." V. 6, 1981, pp. 135-141.
          Kennedy et al. "Polymer Materials Science and Engineering." V. 58, 1998, p. 866.
          Kennedy et al. "Journal of Polymer Science: Part A: Polymer Chemistry." V. 28, 1990,
          p. 89.
          Merrill et al. "RadTech North America Proceedings." V1, 1992, pp. 77-85.
          Blyler et al. "Polymer for Coating Optical Fibers," Chemtech, 1987, pp. 680-684.
          Hitchcock et al. "Agnew. Chem. Int. Ed. Engl.," 1991, pp. 438-440.
STG     -  (A) United States patent
```

- AB - This invention relates to alkenyl ether functional polyisobutylenes. This invention also relates to a method of making alkenyl ether functional polyisobutylene polymers comprising reacting a mixture comprising an alkoxysilyl-functional polyisobutylene polymer, an alkenyl ether compound, and a transesterification catalyst. This invention also relates to a method of making an alkenyl ether functional polyisobutylene polymer comprising reacting a mixture comprising a polyisobutylene containing at least one hydrolyzable group, an alkenyl ether compound, and a solvent. The alkenyl ether functional polyisobutylenes of this invention have high moisture vapor barrier, high damping characteristics, and a high refractive index.
- UP - 2000-17
- 1/1 *USPAT - @USPTO*
- PN - US6054549 A 20000425
- CT - US4617238 19861000 [US4617238] 428452000 Crivello et al.  
 US4808664 19890200 [US4808664] 525106000 Saam  
 US4904732 19900200 [US4904732] 525100000 Iwahara et al.  
 US5270423 19931200 [US5270423] 528015000 Brown et al.  
 US5594042 19970100 [US5594042] 522031000 Glover et al.  
 US5629095 19970500 [US5629095] 428447000 Bujanowski et al.  
 US5665823 19970900 [US5665823] 525106000 Saxena et al.  
 EP462389 19910500 [EP-462389]  
 WO9104992 19891100 [WO9104992]  
 WO9211295 19911200 [WO9211295]
- REF - Liao et al. "Polymer Bulletin." V. 6, 1981, pp. 135-141.  
 Kennedy et al. "Polymer Materials Science and Engineering." V. 58, 1998, p. 866.  
 Kennedy et al. "Journal of Polymer Science: Part A: Polymer Chemistry." V. 28, 1990, p. 89. Merrill et al. "RadTech North America Proceedings." V1, 1992, pp. 77-85.  
 Blyler et al. "Polymer for Coating Optical Fibers," Chemtech, 1987, pp. 680-684.  
 Hitchcock et al. "Agnew. Chem. Int. Ed. Engl.," 1991, pp. 438-440.

## FULL Feature

### Full-text and Full-Claims Display Feature

The **FULL** Feature on Questel allows the automatic display of corresponding EP, WO, and US claims or full-text fields from within any patent database. For example, when searching biblio databases such as FamPat, PlusPat or DWPI, you can enhance your displays with full-text or claims data from the following full text databases on Questel.

- ◆ **EPAPAT** fulltext of European applications from 1978 onwards
- ◆ **PCTFULL** fulltext of PCT applications from 1978 onwards (select fulltext coverage)
- ◆ **USPAT** fulltext of US granted patents from 1971 onwards

*Note: FULLCLMS and FULLTEXT Features only works in single file mode and are not available in a cluster or multifile environment.*

Print Option	Full text information from:	Example
FULLEPO FULLWO FULLUS FULLTEXT	EPAPAT PCTFULL USPAT EPAPAT, PCTFULL, USPAT	PRT MAX FULLEPO PRT ABST 1-5 FULLWO PRT FULL 1 3 5-8 FULLUS PRT MALL SET FULLTEXT

Print Option	Claims information from:	Example
FULLEPO CLMS FULLWO CLMS FULLUS CLMS FULLCLMS	EPAPAT PCTFULL USPAT EPAPAT, PCTFULL, USPAT	PRT MAX FULLEPO CLMS PRT ABST 1-5 FULLWO CLMS PRT FULL 1 3 FULLUS CLMS PRT MALL SET FULLCLMS

To include the full text or full claims information with the record display, use the following command:

**PRT <format> <n1-n2/set> <FULL feature >**

US6504566/PN

\*\* SS 2: Results 1

Search statement 3

**PRT MAX 1 FULLCLMS**

```
1/1 PLUSPAT - (C) QUESTEL- image
CPIM Questel
PN - ***US6504566*** B1 20030107 [***US6504566***]
TI - (B1) Optical printing apparatus
PA - (B1) MITSUBISHI ELECTRIC CORP (JP)
PA0 - Mitsubishi Denki Kabushiki Kaisha, Tokyo [JP]
IN - (B1) FURUKI ICHIRO (JP); YAMADA KEIKI (JP)
```

AP - US52207000 20000309 [2000US-0522070]  
PR - JP12153399 19990428 [1999JP-0121533]  
IC - (B1) B41J-002/435 B41J-002/47  
EC - B41J-002/465  
- G06K-015/12D4M  
PCL - ORIGINAL (O) : 347240000; CROSS-REFERENCE (X) : 347237000 347247000  
347251000  
DT - Basic  
CT - US4651176; US4939529; US5011271; US5162919; US5166510; US5247387; US5548423;  
US5812176; US6195114; JP62134629 A; JP7256928 A  
STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
AB - In an optical printing apparatus, an image having a high image quality is  
desirably produced under stable condition, even when variations occur and exposure  
conditions are different from each other, which are caused by differences in  
response speeds of a light source and a liquid crystal shutter element, and also by  
differences in element driving conditions. The optical printing apparatus is  
arranged by including: image data input for inputting image data; reference level  
generator producing a reference level; comparator for comparing multi-value data  
outputted from the image data input with the reference level so as to convert the  
multi-value data into binary data; data transferring element for transferring the  
binary data outputted from the comparator as head data to the print head; latch  
controller for latching data of the print data; and strobe controller capable of  
causing the print head to expose the light therefrom. Then, the liquid crystal  
shutter element corresponding to a non-recording pixel is also ON/OFF-driven.  
Accordingly, deterioration in the image quality and color shifts, which are caused  
by a difference in driving intervals, can be solved.  
UP - 2003-04

1/1 USPAT - (C) USPTO- image

CPIM Questel

PN - \*\*\*US6504566\*\*\* B1 20030107

MCLM- What is claimed is:

1. An optical printing apparatus for selectively exposing light emitted from a  
print head onto a photosensitive recording medium to thereby form a gradation  
image, in which the print head contains a light source and a plurality of liquid  
crystal shutter elements, comprising:  
image data input means for inputting image data and outputting multi-value data;  
reference level producing means for producing a reference level; comparing means  
for comparing multi-value data outputted from said image data input means with said  
reference level so as to convert said multi-value data into binary data;  
data transferring means for transferring said binary data outputted from said  
comparing means as head data to the print head;  
latch control means for latching data of said head data; and strobe control means  
capable of causing the print head to expose the light therefrom,  
wherein the print head is driven in response to the output results of said data  
transferring means, said latch control means, and said strobe control means to  
thereby form the gradation image, and wherein said printing apparatus is  
operatively arranged to ON/OFF drive the liquid crystal shutter elements  
corresponding to non-recording pixels, said non-recording pixels representing said  
inputted image data of "0".

CLM - 2. An optical printing apparatus as claimed in claim 1 wherein: the plurality  
of liquid crystal shutter elements are positive type liquid crystal elements.

3. An optical printing apparatus as claimed in claim 1 wherein: the plurality of  
liquid crystal shutter elements are TN (twisted nematic) type liquid crystal  
elements.

as head data to the print head;

.

.

.

18. An optical printing apparatus as in claim 16 wherein:

when the light sources are switched, the liquid crystal shutter elements are  
shielded.

## PLUS Feature (SUPER RECORD)

The PLUS Feature on Questel allows you to enhance a display in any patent database with fields or formats from any other patent database on the Questel system. The PLUS command initiates automatic cross-filing of the standardized patent numbers (XPN's) to the designating file(s); the requested fields or formats are then integrated below each corresponding document in a continuous display. The PLUS Feature only works in a single file mode and is not available in a cluster environment.

To include a field(s) or format(s) from any patent file with your record display, use the following command:

**PRT <field/format> <n1-n2/set> PLUS <field/format> (file name) <field/format> (file name)**

To include images when using PLUS:

**PRT IMG <field/format> <n1-n2/set> PLUS <field/format> (file name)**

### Examples:

Add Derwent titles to FamPat family records:	<b>PRT STDL 1-5 PLUS TI (DWPI)</b>
Add ECLAs and US PCLs to Derwent records:	<b>PRT MAX SET PLUS EC (PLUSPAT) PCL (PLUSPAT)</b>
Add EP A and B claims to a FamPat record:	<b>PRT STDR 1 PLUS CLMS (EPAPAT) CLMS (EPBPAT)</b>
Add extended abstracts to WPAM records:	<b>PRT MAX 1-3 PLUS EX (DWPX)</b>

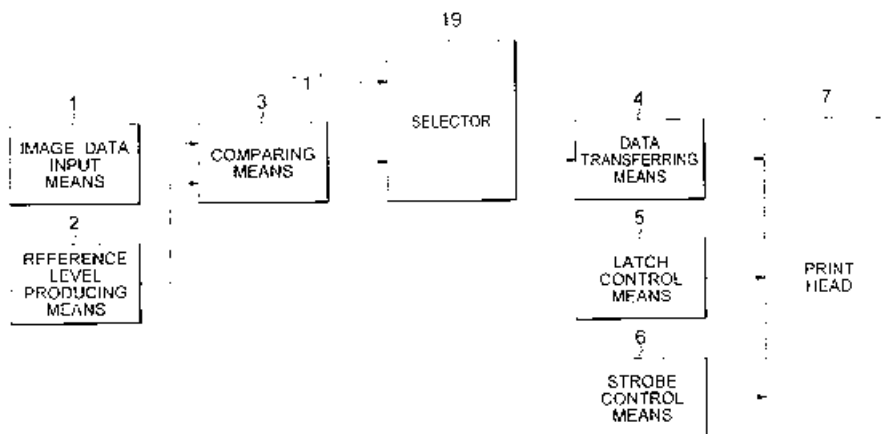
### **Notes for using PLUS:**

1. A field/format must be specified in the initial file when using PLUS.
2. The file name in parentheses must follow a single field/format each time a field/format is specified (multiple fields and formats cannot be listed sequentially).

Example 1: Add Derwent title to FamPat record:

### PRT STDL IMG PLUS TI (DWPI)

1/1 FAMPAT - (C) QUESTEL- image  
CPIM Questel  
FAN - 20042792080236  
PN - JP2000309125 A 20001107 [JP2000309125]  
STG: Doc. Laid open to publ. Inspec.  
AP : 1999JP-0121533 19990428  
- US6504566 B1 20030107 [US6504566]  
STG: U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
AP : 2000US-0522070 20000309  
TI - Optical printing apparatus  
PA - MITSUBISHI ELECTRIC CORP  
PA0 - Mitsubishi Denki Kabushiki Kaisha, Tokyo [JP]  
IN - FURUKI ICHIRO; YAMADA KEIKI  
PR - 1999JP-0121533 19990428  
IC - B41J-002/435 B41J-002/47  
EC - B41J-002/465  
- G06K-015/12D4M  
PCL - ORIGINAL (O) : 347240000; CROSS-REFERENCE (X) : 347237000  
347247000  
347251000  
UP - 2001-02



1/1 DWPI - (C) Thomson Derwent- image  
CPIM Thomson Derwent  
TI - Optical printing apparatus for gradation image formation on photosensitive recording medium, has print head which is driven for image formation based on output of strobe controller that enables print head exposure

Example 2: Add European and US classifications to Derwent records:

**PRT STDR 1 PLUS EC (PLUSPAT) PCL (USAPPS)**

In this example, ECLAs are extracted from FamPat, and US Classifications are extracted from USAPPS.

1/42 DWPI - (C) Thomson Derwent- image  
CPIM Thomson Derwent  
AN - 2004-698224 [68]  
XR - 2000-285078 2003-139195 2003-255158 2003-255159 2003-512081  
2004-216403 2004-281974  
XA - C2004-246972  
  
XP - N2004-553614  
TI - \*\*\*Safety\*\*\* needle assembly for use in e.g. administering medication,  
comprises clip comprising forward portion for partly surrounding the  
needle, and cannula finger locks for locked engagement with the needle  
when the shield is rotated  
DC - B07 P34  
PA - (BECT ) \*\*\*BECTON\*\*\* DICKINSON & CO  
IN - BENNETT M; CRAWFORD JWM; NEWBY CM  
PN - US20040186439 A1 20040923 DW2004-68 A61M-005/32 23p \*  
FD: Cont of US6699217  
AP: 2002US-0170318 20020612; 2004US-0771726 20040204  
PR - 2002US-0170318 20020612; 2004US-0771726 20040204  
  
1/1 FAMPAT - (C) QUESTEL- image  
CPIM Questel  
EC - A61M-005/32C2D  
  
1/1 FAMPAT - (C) QUESTEL- image  
CPIM Questel  
PCL - ORIGINAL (O) : 604197000

## Displaying Images

It is possible to limit the result retrieval to those records that contain images without having to look through all of the results. Use the following command to select the documents with images from the existing results set:

### IM

*Note: system default is the last search results set*

#### interactive (w) graphics

\*\* SS 1: Results 71

**im 1** (use im N to refer to the particular search number N)

\*\* SS 2: Results 39

**prt full img** (use **prt <format> img M-N** to display the record number(s) N in format including the image)

1/1 FAMPAT - (C) QUESTEL- image

CPIM Questel

FAN - 20042801472567

PN - US2003034995 A1 20030220 [US20030034995]

TI - Interactive graphics-based analysis tool for visualizing reliability of a system and performing reliability analysis thereon

IN - HERSHEY JOHN ERIK; ILLOUZ KATI; DOCKENDORFF JAMES ERNEST; EDGAR MELVIN CRAIG; GARDNER DONALD LEE; HANSEN CARL HAROLD; KRUPAR ALISSA BETH; NEAGU RADU EUGEN; OSBORN BROCK ESTEL

AP - 2001US-0897556 20010703

PR - 2001US-0897556 20010703

IC - G09G-005/00

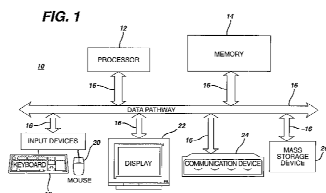
EC - G06F-003/033A1

PCL - ORIGINAL (O) : 345713000

AB - (US20030034995)

An interactive graphics-based analysis tool for performing reliability analysis of a system formed from a variety of subsystems and components within each subsystem. The tool uses a hierarchical representation component to organize the system, subsystems and components into a hierarchical representation. An interactive selection component provides different options for analyzing the hierarchical representation. A reliability analysis component, responsive to the hierarchical representation component and the interactive selection component, allows a user to perform a reliability analysis at any level of the hierarchical representation.

UP - 2003-10



## KWIC (Key Word in Context)

KWIC is a flexible feature, which allows you to display an entire set of results with the print formats or fields of your choice followed by the portions of texts containing searched terms. The KWIC feature displays the portions of the record in which search terms appear *along with a system-defined or user-defined format or tailored prt display.*

### How to use KWIC:

- Substitute KWIC for PRT each time you request a Key Word In Context display.
- Add desired FORMAT (test, sc, max ) or FIELDS (ti, pa) and RANGE of records

### Examples:

**kwic test 1-5**  
**kwic ti set** ← *Useful in DWPI to see Titles instead of Title Terms*  
**kwic myfd 1 3-5 8-9 10** ← *Where "myfd" is a User Defined PRT Display*  
**kwic nl 10 abst set** ← *Where "nl 10" is max Number of Lines around keywords*

*Please Note:* As with PRT, when **KWIC** is entered alone (without addition of FORMAT, FIELDS or RANGE of records), **KWIC** defaults to the display of ONE record in STDR format.

- There is NO additional charge or surcharge for using the **KWIC** feature.
- No display costs will accrue if **KWIC** is used in conjunction with prt formats or fields that are free of charge. *Examples:* kwic test or kwic scan or kwic ti \*\*
- No display costs will accrue if **KWIC** [FREE format or field] is used to display terms from the Basic Index. *Examples:* terms from the title, abstract, claims (and specification in full-text files).\*\*
  - Display costs will accrue for **KWIC** requests which include *chargeable* formats or prt fields; *Examples:* kwic [stdr] or kwic max or kwic pn or kwic ct

\*\* Non-subscribers to the DWPI file will be billed for any **KWIC** display that includes the Derwent title.

## Displaying Results Review

### Formats

<b>PRT &lt;field&gt;</b>	Tailed field display, use 2-letter field qualifier
<b>PRT &lt;format&gt; PLUS &lt;field&gt;</b>	Include additional field display, use 2-letter field qualifier
<b>PRT &lt;format&gt; MINUS &lt;field&gt;</b>	Exclude field display, use 2-letter field qualifier

### User-defined Formats

<b>FOR</b>	List the predefined display formats
<b>FOR &lt;format_name&gt; &lt;field 1&gt;...&lt;field 10&gt;</b>	Create user own format for customized display of records and searching.
<b>PRT &lt;format_name&gt;</b>	Display records using user-defined format
<b>/&lt;format_name&gt; search_term(s)</b>	Search using user-defined format
<b>FOR USER</b>	Display the list of user-defined formats
<b>ER FOR &lt;format_name&gt;</b>	Erase a user-defined format

### Special Display Features

<b>PRT &lt;Legal Feature&gt;</b>	Display patent record including all the legal status information available
<b>PRT &lt;Cited Feature&gt;</b>	Display patent record including all the cited information available
<b>PRT &lt;Full Feature&gt;</b>	Display patent record including the full-text or claims information available
<b>PRT &lt;PLUS Feature&gt;</b>	Display patent record including any field or format from any database
<b>KWIC</b>	Displays Key Words in Context

## Practice Exercises

11. Create a superfield (FOR command) with the IPC (IC) and ECLA (EC) fields.
12. In the FamPat file using the superfield above, search for a document with an IPC or EC of H04N-007/14 and Steven Alten as inventor. Display the record in a format that includes the front-page image.
13. Find the original Philips CD patent with ECLA: G11B-007/09B5. Display the record in the MAX format with all corresponding legal records.
14. In the FamPat file, search for a patent assigned to Mark IV Industries with Matthew Dennis as the Inventor. Display the records and include all corresponding claims.

## Section IV

# Crossfile Searching and Statistical Analysis Techniques

### Crossfile Searching

For a complete, comprehensive search, it is quite often necessary to search several databases. On Questel, it is quite simple to crossfile search between the databases and to transfer the data elements already retrieved over to a different file. Using the crossfile searching techniques reduces manual data reentry, therefore saving online time and costs.

#### Step 1

Access the database and perform a search.

#### Step 2

Using the existing results set, select the field to be used for crossfile searching.

**MEM /<field>**

Default: extract every term from the specified field from all the records in the last search statement with results and add them to MEM1 list.

*Note: Terms are stored in the memory list without the field qualifier. Maximum number of terms 100,000 per memory.*

#### Step 3

Access a new file of choice. Search for all the terms from the memory list.

**\*MEM /<field>**

Default: search all terms in MEM1.

*Note: See the Questel Fact Sheet on Crossfile Searching for the information on other MEM command options: 125 user named lists etc.*

```
fi fampat
bioluminescence
** SS 1: Results 376

mem /xpn
Total number of terms extracted: 1340
Number of terms added to MEM1 : 1340
First term introduced for extraction: 1

fi pctfull
*mem /xpn
** SS 1: Results 137

prt mem
# TERM
1 US20060053505
2 US20060044781
3 RU2004103830
4 RU2268944
5 US20060035310
6 EP1626094
7 JP2006051028
8 WO200605235
9 WO200608936
10 US20050287549
11 JP2006006274
12 WO200492398
13 CA2521754
14 AU2004230490
15 NO200504792
Continue: Y / N
```

n

## Fields to use with the MEM Command

Use the following fields to extract and search the Questel standardized formats:

<b>XPN</b>	Patent/Publication Numbers
<b>XAP</b>	Application Numbers
<b>XPR</b>	Priority Numbers
<b>XCT</b>	Citation Numbers

## Extracting Numbers to a MEM List

<b>MEM /field</b>	<b>MEM</b> defaults to the entire Search Set for the last Search Statement. The terms will be posted to the default <b>MEM</b> list, MEM1.
<b>MEM /XPN</b>	Extracts the crossfile searchable publication numbers from last set for the entire set of records
<b>MEM SS 2 1-5 /XPR</b>	Extracts the priority numbers from records 1-5 in Search Statement 2
<b>MEM BIO /XPN</b>	Extracts the publication numbers to a <b>MEM</b> list named BIO and saves it for one week.
<b>MEM STORE ENZ /XPN</b>	Extracts the publication numbers to a <b>MEM</b> list named ENZ and stores it permanently.

## Displaying the Extracted Terms in a MEM List

<b>PRT MEM</b>	Displays the first fifteen numbers in the MEM1 list.
<b>PRT MEM BIO NONSTOP</b> BIO	Displays continuously all the numbers in the <b>MEM</b> list called BIO
<b>PRT MEM 1-5,7</b>	Display the first five and the seventh entry in the MEM1 list.
<b>HIS MEM</b>	Displays a listing of all the saved memory lists

## Searching the Terms from a MEM List

Note that the **MEM** command extracts the data elements but not the field qualifier. To search the extracted terms, use the **\*MEM** command with the field qualifier you want it to search the entries in. Using **\*MEM** with **AUDIT** turned on displays the terms posted in the index.

<b>*MEM /XPN</b>	Searches the entire MEM1 list in the publication number field
<b>*MEM &lt;n-n&gt; /field</b>	Searches only the entries designated
<b>*MEM BIO /XPN</b>	Searches the entire MEM list called BIO in the publication number field

## Statistical Analysis

Questel offers tools for the statistical analysis of retrieved data. There are 4 default memory lists and 150 user-defined lists with a capacity of 100,000 terms that can be used for the extracting terms and ranking.

### GET Macros

To aid former Orbit searchers to easily use the basic GET statistical commands on Questel, GET “macros” were created on all the existing core patent databases. To analyze fields other than those listed below, it is necessary to use the existing MEMSORT command. Please consult the Questel Mini-Guide. The command syntax is:

**GET <field>** e.g. **GET PA** is the macro for **MEMS /PA RK 2**

For the patent files on Questel, the following **GET** macros are available:

Fields	Macro Name	Databases
Patent Assignee	PA PAN	DWPI, EPPATENT, PCTFULL, FRPATENT, USPAT ITALPAT, IFIPAT, JAPIO, PHARM, PLUSPAT, FAMPAT
Company Code	CC	DWPI, JAPIO, IFIPAT
Inventor	IN INN	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Publication Country	PC	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Priority Country	PRC	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Application Country	APC	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Publication Date (year)	PD	DWPI, IEPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Application Date (year)	APD	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Priority date (year)	PRD	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
IPC	IPC	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
Main IPC	MIPC	DWPI, EPPATENT, PCTFULL, FRPATENT, ITALPAT, IFIPAT, JAPIO, PHARM, USPAT, PLUSPAT, FAMPAT
European Class	EC	EPPATENT, PCTFULL, FRPATENT, PLUSPAT, FAMPAT
US Class	PCL	IFIPAT, USPAT

## Step 1

Select the database and perform the search.

## Step 2

Extract terms from a specific database field and perform statistical analysis.

General format:

**GET ss N [m1-m2] <field> from <name>**

ss N - search statement number

m1,m2 - record numbers

*Note: MEM2 is the default memory list for statistical analysis.*

**fi pluspat**

**(car and convertible) not manual**

\*\* SS 1: Results 441

**get pa**

Total number of terms extracted: 435

Number of terms now in MEM2: 236

Memory is of type MEMSORT (statistical analysis)

#	FREQ	TERM
1	21	4.76% DAIMLER BENZ AG
2	20	4.53% PORSCHE AG
3	18	4.08% KARMANN GMBH W
4	15	3.40% BAYERISCHE MOTOREN WERKE AG
5	9	2.04% CTS FAHRZEUG DACHSYSTEME GMBH
6	9	2.04% FRANCE DESIGN
7	7	1.58% WEBASTO VEHICLE SYS INT GMBH
8	6	1.36% DAIMLER CHRYSLER AG
9	6	1.36% ENTPR RAILWAY EQUIP COMPANY
10	6	1.36% PULLMAN INC
11	6	1.36% SUZUKI MOTOR CO
12	5	1.13% ASC INC
13	5	1.13% CHRYSLER CORP
14	5	1.13% EDSCHA CABRIO VERDECKSYS GMBH
15	5	1.13% KANTO JIDOSHA KOGYO KK

Continue: Y / N

**n**

**get ss 1 in**

Total number of terms extracted: 726

Number of terms now in MEM2: 560

Memory is of type MEMSORT (statistical analysis)

#	FREQ	TERM
1	10	2.26% QUEVEAU GERARD
2	10	2.26% QUEVEAU PAUL
3	7	1.58% MAASS JOACHIM
4	6	1.36% GUILLEZ JEAN-MARC
5	6	1.36% GUTRIDGE JACK E
6	4	0.90% GUILLEZ JEAN MARC
7	4	0.90% HENN UWE
8	4	0.90% JENSEN JAKOB
9	4	0.90% KANEKO TAKASHI
10	4	0.90% KATO TETSUYA
11	4	0.90% TANOGAMI NAOTO
12	3	0.68% ARGYLE CAMPBELL
13	3	0.68% AYDT MATTHIAS
14	3	0.68% BRANDLER JANET E
15	3	0.68% CAZES CHRISTOPHE

Continue: Y / N

**n**

## GET command options

- 150 user-named lists
- 100,000 list capacity
- Options:
  - **TOSEL** to place the results into the user-named list and SAVE (default);
  - **STORE** to store the user-named list permanently;
  - **TOP** to analyze the top N most occurring terms;
  - **GT** to analyze only the terms with occurrences greater than N;

Format: **GET ss N [m1-m2] <field> TOSEL <listname> SAVE/STORE [TOP N, GT M]**

### User Named Lists

#### Step 1

Select the database and perform the search.

#### Step 2

Extract terms from a specific database field to a user-named list and perform statistical analysis:

**GET <field> TOSEL <listname>**

Note: User-defined lists are automatically saved for 1 day.

Use the following command to display the listing of the existing memory lists:

### HIS MEM

Use the following command to display the contents of the user-defined memory list:

**PRT MEMS <listname>**

```
fi pluspat
fuel cell and pd=1998
** SS 1: Results 950
```

```
get pa tosel fuelget
```

```
Processing (1)
  Total number of terms extracted: 1176
  Number of terms now in FUELGET : 345
```

```
Memory is of type MEMSORT (statistical analysis)
```

#	FREQ		TERM
1	81	8.52%	FUJI ELECTRIC CO LTD
2	54	5.68%	TOKYO SHIBAURA ELECTRIC CO
3	49	5.15%	ISHIKAWAJIMA HARIMA HEAVY
4	44	4.63%	SIEMENS AG
5	40	4.21%	KERNFORSCHUNGSANLAGE
6	36	3.78%	MITSUBISHI HEAVY IND LTD
7	34	3.57%	TOKYO GAS CO LTD
8	32	3.36%	SANYO ELECTRIC CO
9	23	2.42%	HONDA MOTOR CO LTD
10	23	2.42%	OSAKA GAS CO LTD
11	23	2.42%	TOYOTA MOTOR CORP
12	18	1.89%	BALLARD POWER SYSTEMS
13	18	1.89%	MATSUSHITA ELECTRIC IND CO
14	17	1.78%	MITSUBISHI ELECTRIC CORP
15	17	1.78%	YOYU TANSANENGATA NENRYO

```
Continue: Y / N
```

```
n
```

```
his mem
```

Name	Status	Type	Number	Creation date
FUELGET	SAVE	FREQ	345	27/06/2003 19*08*27

```
prt mems fuelget
```

Note that results of the stat. analysis are placed into the user list FUELGET

## STORE OPTION

Using the search from the previous page.

Include the **STORE** option when extracting terms for statistical analysis to store the user-named list permanently:

**GET <field> TOSEL <name> STORE**

## TOP Option

Include the **TOP N** option when extracting terms for statistical analysis to analyze the top N most occurring terms:

**GET <field> TOSEL <name> TOP N**

## GREATER THAN option

Include the **GT N** option when extracting terms for statistical analysis to analyze only the terms with occurrences greater than N:

**GET <field> TOSEL <name> GT N**  
ss N - search statement number

```
get pa tosel fuelstore store
```

```
Total number of terms extracted: 1176
Number of terms now in FUELSTORE : 345
```

```
Memory is of type MEMSORT (statistical analysis)
```

#	FREQ		TERM
1	81	8.52%	FUJI ELECTRIC CO LTD
2	54	5.68%	TOKYO SHIBAURA ELECTRIC CO
3	49	5.15%	ISHIKAWAJIMA HARIMA HEAVY IND
4	44	4.63%	SIEMENS AG
5	40	4.21%	KERNFORSCHUNGSANLAGE JUELICH
6	36	3.78%	MITSUBISHI HEAVY IND LTD
7	34	3.57%	TOKYO GAS CO LTD
8	32	3.36%	SANYO ELECTRIC CO
9	23	2.42%	HONDA MOTOR CO LTD
10	23	2.42%	OSAKA GAS CO LTD
11	23	2.42%	TOYOTA MOTOR CORP
12	18	1.89%	BALLARD POWER SYSTEMS
13	18	1.89%	MATSUSHITA ELECTRIC IND CO LTD
14	17	1.78%	MITSUBISHI ELECTRIC CORP
15	17	1.78%	YOYU TANSANENGATA NENRYO DENCH

```
Continue: Y / N
```

```
n
```

```
his mem
```

Name	Status	Type	Number	Creation date
FUELGET	SAVE	FREQ	345	27/06/2003 19*08*27
FUELSTORE	STORE	FREQ	345	27/06/2003 19*14*56

```
get pa tosel fuelgettop top 5
```

```
Total number of terms extracted: 1176
Number of terms now in FUELGETTOP : 5
```

```
Memory is of type MEMSORT (statistical analysis)
```

#	FREQ		TERM
1	81	8.52%	FUJI ELECTRIC CO LTD
2	54	5.68%	TOKYO SHIBAURA ELECTRIC CO
3	49	5.15%	ISHIKAWAJIMA HARIMA HEAVY IND
4	44	4.63%	SIEMENS AG
5	40	4.21%	KERNFORSCHUNGSANLAGE JUELICH

```
his mem
```

Name	Status	Type	Number	Creation date
FUELGET	SAVE	FREQ	345	27/06/2003 19*08*27
FUELGETTOP	SAVE	FREQ	5	27/06/2003 19*19*22
FUELSTORE	STORE	FREQ	345	27/06/2003 19*14*56

```
get ss 2 pa tosel cellget gt 30
```

```
Total number of terms extracted: 1176
Number of terms now in CELLGET : 8
```

```
Memory is of type MEMSORT (statistical analysis)
```

#	FREQ		TERM
1	81	8.52%	FUJI ELECTRIC CO LTD
2	54	5.68%	TOKYO SHIBAURA ELECTRIC CO
3	49	5.15%	ISHIKAWAJIMA HARIMA HEAVY IND
4	44	4.63%	SIEMENS AG
5	40	4.21%	KERNFORSCHUNGSANLAGE JUELICH
6	36	3.78%	MITSUBISHI HEAVY IND LTD
7	34	3.57%	TOKYO GAS CO LTD
8	32	3.36%	SANYO ELECTRIC CO

# Crossfile Searching and Statistical Analysis Techniques Review

## Crossfile searching

<b>MEM /&lt;field&gt;</b>	Extract search terms onto the memory list.
<b>*MEM /&lt;field&gt;</b>	Search extracted search terms from the memory list.
<b>MEM [ss N] /&lt;field&gt; [Options]</b>	Extract search terms onto the memory list from a specific search set and using additional options (RK - Rank, LG - Length).
<b>PRT MEM [m-n]</b>	Display the memory list using the PRT command (m,n - extracted term numbers).

## Statistical Analysis

<b>GET &lt;field&gt;</b>	Perform statistical analysis on the extracted terms from a specified field in the last results set.
<b>GET ss N [m1-m2] &lt;field&gt; from &lt;name&gt;</b>	Perform statistical analysis on the extracted terms from a specific field in previously selected database (ss N search statement number, m1,m2 - record numbers, <name> Database name).
<b>GET &lt;field&gt; TOSEL &lt;listname&gt;</b>	Extract terms from a specific database field to a user-named list and perform statistical analysis.
<b>GET &lt;field&gt; TOSEL &lt;name&gt; [STORE / TOP N / GT N]</b>	Extract terms for statistical analysis [to store the user-named list permanently / to analyze the top N most occurring terms / to analyze the terms with occurrences greater than N]
<b>HIS MEM</b>	Display the listing of the existing memory lists.
<b>PRT MEMS &lt;listname&gt;</b>	Display the contents of the user-defined memory list.
<b>MEMS SET /&lt;field&gt; [options]</b>	Detailed analysis of the particular parts of the field.
<b>PRT MEMS [m-n]</b>	Display the memory list using the PRT command (m,n - extracted term numbers).

## Practice Exercises

15. In the DWPI database retrieve all patents with Coca Cola as patent assignee. Perform statistical analysis on the IPC codes. Which codes are used most often?
16. In the IFIPAT file search for US patent 5897036. Using the priority number (XPR field), the MEM and \*MEM commands for crossfile searching, find all related documents for this patent in the FamPat file. Using the same technique, look at the family in the DWPI file and compare it to the FamPat family.
17. In the FamPat file, perform a search for patents covering antibacterial soaps. Using GET, analyze the EC field and display the top 5 codes. Next, analyze the PA field and display the top 10 patent assignees.

## Section V

### Using European Classifications for Enhanced Retrieval

ECLAs are European Classifications applied internally by the EPO examiners; they can be used for enhanced retrieval with seven databases available on Questel; FamPat, PlusPat, DEPAT, EPPATENT, FRPATENT, WOPATENT, and NPL. ECLAs are retrospectively revised in these databases on a monthly basis. They are currently applied to 22 patenting authorities in FamPat and PlusPat, including US patents and pre-grants. Temporary marks used by the examiners called ICOs (In Computer Only) for codes under consideration are also included in FamPat and PlusPat and can also be used for patent retrieval.

ECLA is an extension on the Internal Patent Classification, or IPC; it retains its hierarchy but is not limited by it. ECLAs generally contain more subdivisions, which allow for more in-depth classification. The European Classification hierarchy with definitions is contained and can be searched in the ECLA database on Questel. Another available database, ECLADEF, contains the definitions in a non-hierarchical format and can also be searched. The ICO definitions are included in these databases.

The following procedure can be used in PlusPat to add applicable ECLAs and ICOs to a keyword strategy.

```
file fampat
```

```
contact lens?? and detergent+ and clean+
```

```
** SS 1: Results 71
```

```
Search statement 2
```

```
get ec
```

```
Total number of terms extracted: 154
```

```
Number of terms now in MEM2 : 83
```

```
Memory is of type MEMSORT (statistical analysis)
```

#	FREQ		TERM
1	24	33.80%	C11D-003/00B16
2	5	7.04%	&M
3	5	7.04%	A61L-012/08B
4	5	7.04%	A61L-012/12D
5	5	7.04%	C11D-003/386E
6	5	7.04%	G02C-013/00
7	4	5.63%	C11D-003/386F
8	3	4.22%	A61K-008/66
9	3	4.22%	A61L-012/08
10	3	4.22%	C11D-003/00B13
11	3	4.22%	C11D-003/39D
12	2	2.81%	A01N-043/54
13	2	2.81%	A01N-059/00
14	2	2.81%	A61L-012/14
15	2	2.81%	A61Q-011/00

```
Continue: Y / N
```

Select file and run  
keyword search.

Use GET command  
to analyze top 15  
ECLAs in set result.

file ecl

Switch to ECLA definition database.

Selected file: ECLA

Search statement 1

\*mems 1,5

```
Frequency Term
  1 C11D-003/00B16
  1 C11D-003/386E
```

\*\* SS 1: Results 2

Search statement 2

kwic 1-2

Display definitions by using KWIC feature. Decide which codes are applicable. (underlined for emphasis).

```
1/2 ECLA - (C) Questel/OEB
GR C11D-003/00 Other compounding ingredients of detergent compositions
covered in group C11D1/00 [N:
Note Documents classified in group C11D3/00B are also classified in
other groups of subclass C11D according to the chemical nature of the
compounds as such]
SG . C11D-003/00B [N: Other compounding ingredients characterised by
their effect]
SD15 .. ***C11D-003/00B16*** [N: Compositions for cleaning contact lenses,
spectacles, lenses (disinfecting contact lenses A61L2/00C; mechanical
cleaning G02C13/00)] Note In groups C11D3/02 to C11D3/39,...

2/2 ECLA - (C) Questel/OEB
GR C11D-003/00 Other compounding ingredients of detergent compositions
covered in group C11D1/00 [N:
Note Documents classified in group C11D3/00B are also classified in
other groups of subclass C11D according to the chemical nature of the
compounds as such]
SG . C11D-003/16 Organic compounds
SD12 5.5 .... ***C11D-003/386E*** [N: containing enzymes other than
protease, amylase, lipase, cellulase, oxidase, reductase]
.... C11D-003/386F [N: containing cellulases...]
```

file fampat

Switch back to FamPat file.

\*mems 1/ec

\*\* SS 2: Results 419

2 not 1

\*\* SS 3: Results 395

PRT TI 2-3

Combine results from keyword and ECLA strategies. The ECLA code in this strategy retrieved 395 inventions which were NOT retrieved by our keyword search.

```
2/395 FAMPAT - (C) QUESTEL- image
CPIM Questel
TI - Method and composition for reducing contact lens swelling
```

```
3/395 FAMPAT - (C) QUESTEL
TI - Contact lens care compositions containing chitosan derivatives
```

## Using ICO Codes

Finding appropriate ECLA and ICO codes can also be accomplished by searching the ECLA database directly using keywords. The following example illustrates a direct keyword search in ECLA that obtains ICO codes.

Select ECLA file and run a keyword search.

```
file ecla
```

```
Search statement 1
```

```
internet s (bill+ or pay+)
```

```
** SS 1: Results 1
```

```
Search statement 2
```

Display results using KWIC format.

```
kwic
```

```
1/1 ECLA - (C) Questel/OEB
GR T04M-215/00 Metering arrangements; Time
controlling arrangements;
Time indicating arrangements [N9904]
SG . T04M-215/01 Details of billing
arrangements [N9904]
SD12 .. T04M-215/01N ***Billing***
arrangements using ***internet***
[N9904]
SD13 .. T04M-215/01Q On-line real-time
***billing***, able to see
***billing*** information while in
communication, e.g. via the
***internet*** [N0110]
```

Switch to FamPat and search code(s). Note: when searching ICO codes in FamPat or PlusPat, you must use the /ICO field qualifier. Searching with the the /EC will not retrieve ICO codes.

```
file fampat
```

```
Search statement 1
```

```
t04m-215/01n/ico
```

```
** SS 1: Results 179
```

```
Search statement 2
```

```
prt pn ti 1-3
```

```
1/179 FAMPAT - (C) QUESTEL- image
CPIM Questel
PN - US2002087383 A1 20020704
[US2002087383]
- US6859783 B2 20050222
[US6859783]
TI - INTEGRATED INTERFACE FOR WEB BASED
CUSTOMER CARE AND TROUBLE MANAGEMENT
```

```

2/179 FAMPAT - (C) QUESTEL
PN - US2004240638 A1 20041202
[US20040240638]
TI - Methods for providing prepaid telephony
service via an internet protocol network system

3/179 FAMPAT - (C) QUESTEL-ORBIT- image
CPIM
PN - WO2004093425 A1 20041028 [WO200493425]
- DE10318375 A1 20041118
[DE10318375]
TI - METHOD FOR CALL BILLING COMMUNICATION
CONNECTIONS BETWEEN COMMUNICATION TERMINALS OF
SEPARATED, PACKET-SWITCHED COMMUNICATION
NETWORKS

```

**his**

File : FAMPAT

```

SS Results
1 179 T04M-215/01N/ICO
2 48840 INTERNET OR WWW OR WORLDWIDE
WEB OR WEBSITE OR WEB SITE
3 540640 BILL+ OR PAY+ OR CHARG+ OR
TARIFF
4 4249 2 AND 3

```

Using keywords in FamPat for ranking top ICOs can enhance your search and find additional applicable codes.

**get ico**

#	FREQ		TERM
1	65	1.28%	T04M-215/22
2	57	1.12%	T04M-215/01N
3	48	0.94%	T04L-029/06J
4	37	0.73%	T04L-029/06C2
5	36	0.71%	T04M-215/32
6	34	0.67%	T04M-215/01V
7	31	0.61%	T04L-029/08A7
8	23	0.45%	T04M-215/24
9	22	0.43%	T04M-215/01A
10	20	0.39%	T04M-215/01C
11	18	0.35%	T04M-007/12
12	16	0.31%	T04N-005/445M6B
13	14	0.27%	T04L-029/12A2
14	14	0.27%	T04M-215/01K
15	14	0.27%	T04M-215/01L

Another ICO code has ranked higher and should be considered.

Look up ICO code in ECLA file.

**file ecla**

**T04M-215/22**

\*\* SS 1: Results 1

**kwic**

```

1/1 ECLA - (C) Questel/OEB
GR T04M-215/00 Metering arrangements; Time
controlling arrangements; Time indicating
arrangements [N9904]
SG . ***T04M-215/22*** Bandwidth or usage-
sensitve billing [N0110]

```

Return to FamPat and search ICO.  
View titles to see if these codes are  
also applicable.

**file fampat**

**\*mems 1/ico**

Frequency	Term
343	T04M-215/22/ICO

\*\* SS 5: Results 343

**prt ti 1-3**

1/343 FAMPAT - (C) QUESTEL- image  
TI - Method and system for presentation of  
content from one cellular phone to another  
through a computer network

2/343 FAMPAT - (C) QUESTEL- image  
TI - Method for transmitting messages between  
communication devices

3/343 FAMPAT - (C) QUESTEL- image  
TI - Method and system for multimedia  
messaging service (MMS) rating and billing

## Cluster Searching

Questel offers several predefined clusters, or collections of databases combined by the subject matter, such as:

PATENTS, LEGAL, TRADEMARKS, FULLTEXT, ENGINEER, ENERGY, SCITECH, etc.

It is also possible to create user-defined clusters. The **CL** command lists both user and system-defined clusters.

*Note: The entire search strategy is saved when switching from the cluster mode to individual file search mode. However, a search strategy is erased from the system when switching to a cluster searching. Use SAVE command to save the current search, so it may be executed in the cluster mode.*

### Step 1

Create your own cluster (up to 40 databases can be included in a cluster):

**CL** <clustername> <name1>  
<name2>...<name40>

### Step 2

To access the user or system-defined cluster

**FILE** <clustername>

### Step 3

Perform a search in a cluster mode.  
The number of records retrieved in each database is shown when searching in the cluster mode.

To display records from a particular database:

**PRT** <format> **FROM** <file name>

To erase the cluster

**CL ER** <clustername>

**cl fulltexte uspat usapps epapat  
epbpct full gbfull**

Created cluster : FULLTEXTE  
Databases : USPAT, USAPPS,  
EPAPAT, EPBPAT, PCTFULL,  
GBFULL

**fi fulltexte**

Selected file: USPAT  
[banner not shown]  
Selected file: USAPPS  
[banner not shown]  
Selected file: EPAPAT  
[banner not shown]  
Selected file: EPBPAT  
[banner not shown]  
Selected file: PCTFULL  
[banner not shown]  
Selected file: GBFULL  
[banner not shown]  
Cluster : FULLTEXTE  
Databases : USPAT, USAPPS,  
EPAPAT, EPBPAT, PCTFULL, GBFULL

**pfizer/pa**

USPAT	3448
USAPPS	888
EPAPAT	2606
EPBPAT	987
PCTFULL	1743
GBFULL	134
** SS 1 : Results	9806

**cl er fulltexte**

Deletion of cluster : FULLTEXTE  
Databases : USPAT, USAPPS,  
EPAPAT, EPBPAT, PCTFULL, GBFULL  
Confirm: Y / N

**Y**

Deletion of cluster : FULLTEXTE

## Patent Grouping and Deduping

The search results obtained in a cluster environment can be displayed in patent groups, i.e. records will be arranged together if they describe the same invention. A **patent group** contains a “first record” against which the duplicate or related records are determined. The order of files in the cluster specifies what record is considered the “first record” and therefore the order in which records will be compared (see Step 3).

A **duplicate patent record** is any subsequent record in a group that represents the same patent publication/invention with the same publication number.

A **related patent record** references the same invention and contains additional publication number information.

*Note (Imagination Users): to activate the grouping and deduping features it is necessary to use the “Default Terminal” mode in the Settings/Configuration/Service interface menu.*

### Step 1

Enter or create a database cluster.

**FILE CL <cluster\_name>**

### Step 2

Perform the search in the selected cluster environment

### Step 3

Perform patent grouping on the results:  
**ID**

Limits: Patent Grouping can be performed on a set with no more than 5000 records.

### Reorder Files

Reorder the files in the cluster if necessary followed by the names of the databases in the required order, for example:

**ID DWPI IFIPAT PCTPAT EPPATENT JAPIO**

*Note: The results of a grouping operation are put into Search Statement 203 (or SS 203). Any subsequent ID command replaces the contents of SS 203.*

To redisplay the results of patent grouping: group count, number of duplicates, single records etc.

**ID STAT**

**cl airbag dwpi eppatent pctpat japiro ifipat**  
Created cluster : AIRBAG

### file airbag

Cluster : AIRBAG  
Databases: DWPI,EPPATENT,PCTPAT,JAPIO,IFIPAT

### airbag? or (air(W)bag?) or (inflat+(5d)bag?)

DWPI	35588
EPPATENT	4417
WOPATENT	2923
JAPIO	14388
IFIPAT	15887
** SS 1 : Results	73203

### 1 and (seat? 2d sensor?)

DWPI	401
EPPATENT	24
WOPATENT	27
JAPIO	55
IFIPAT	504
** SS 2 : Results	1011

### 2 and pd=1999

DWPI	50
EPPATENT	3
WOPATENT	3
JAPIO	8
IFIPAT	12
** SS 3 : Results	76

### id

DWPI	50
EPPATENT	3
WOPATENT	3
JAPIO	8
IFIPAT	12
** SS 203 : Results	76

++ Grouping Documents - Patent Groups  
++  
76 Documents  
56 Patent Groups  
16 Duplicate Patent Records  
41 Single Patent Groups  
0 Non-ordered Documents

#### Step 4

Use the **PRT PATGR** command to display the results of the patent grouping. Note: by default the grouped documents from ss 99 are displayed:

#### **PRT PATGR x-y**

where x,y are record numbers

Use **SET** instead of x-y to display all records

#### *Options in Displaying Patent Groups:*

##### FIRST

only the first record in each group

##### NODUP

all records other than duplicates

##### DUPLI

only duplicate records

##### MATCHES

groups which contain more than one record

##### SINGLE

Only groups containing one record

#### **prt patgr 1-76**

```
++ Patent Group - GR 1 ++

1/76 DWPI - (C) Thomson Reuters- image
AN - 2000-055874 [05]
XP - N2000-043670
TI - Air bag for passenger seat of vehicle
DC - Q17
PA - (CITR) AUTOMOBILES CITROEN SA
    - (CITR) AUTOMOBILES PEUGEOT SA
IN - AMAR O
PN - FR2778158 A1 19991105 DW2000-05
B60R-021/02 Fre 7p *
    AP: 1998FR-0005560 19980430
PR - 1998FR-0005560 19980430

++ Patent Group - GR 2 ++

2/76 DWPI - (C) Thomson Reuters- image
AN - 2000-038615 [03]
XP - N2000-029159
TI - Seat belt tension sensor for child seat to
deploy air bag
DC - Q17 S02 X22
PA - (BREE-) BREED AUTOMOTIVE TECHNOLOGY INC
IN - HUSBY HS
PN - WO9955559 A1 19991104 DW2000-03
B60R-022/44 Eng 17p *
    AP: 1999WO-US02205 19990202
    - US5996421 A 19991207 DW2000-04
G01L-001/04 Eng
    AP: 1998US-0066009 19980424
PR - 1998US-0066009 19980424

3/76 WOPATENT ++Dupl.++ - (C) Questel/WIPO-
image
PN - WO9955559 A1 19991104 [WO9955559]
AP - WOUS9902205 19990202 [1999WO-US02205]
PR - US6600998 19980424 [1998US-0066009]
ET - SEAT BELT TENSION SENSOR EMPLOYING
FLEXIBLE POTENTIOMETER
FT - CAPTEUR DE TENSION DE CEINTURE DE SECURITE
UTILISANT UN POTENTIOMETRE
SOUPLE
PA - BREED AUTOMOTIVE TECHNOLOGY, INC. [US /
US] P.O. Box 33050 Lakeland,
    FL 33807-3050 (US) (except US)
    - HUSBY, Harald, S. [US / US] 625 Emerald
Ridge Boulevard Lakeland, FL
    33813 (US) (only US)
IC1 - IPC[6 ]
    - B60R-022/44
IC2 - G01L-003/00
DS - BR; CA; CZ; DE; ES; GB; JP; KR; MX; PL;
RU; SE; US; European Patent
    (AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT;
    SE)

4/76 IFIPAT ++Dupl.++ - (C) IFI- image
PN - US 5996421 A 19991207 [US5996421]
TI - SEAT BELT TENSION SENSOR EMPLOYING
FLEXIBLE POTENTIOMETER
IN - Husby Harald Snorre / Lakeland / FL (US)
. . .
```

*[Display abbreviated]*

## PRT PATGR x-y NODUP

where x,y are  
record numbers

**NODUP** option displays only non-duplicate records. Count of the duplicate records that were excluded is shown at the end of display. In this example records 6,8,10 and 12 -- a total of 4 records were excluded.

## prt patgr 1-76 nodup

```
++ Patent Group - GR 1 ++

1/76 DWPI - (C) Thomson Reuters- image
AN - 2000-055874 [05]
XP - N2000-043670
TI - Air bag for passenger seat of vehicle
DC - Q17
PA - (CITR) AUTOMOBILES CITROEN SA
    - (CITR) AUTOMOBILES PEUGEOT SA
IN - AMAR O
PN - FR2778158                A1 19991105 DW2000-05
B60R-021/02 Fre 7p *
    AP: 1998FR-0005560 19980430
PR - 1998FR-0005560 19980430

++ Patent Group - GR 2 ++

2/76 DWPI - (C) Thomson Reuters- image
AN - 2000-038615 [03]
XP - N2000-029159
TI - Seat belt tension sensor for child seat to
    deploy air bag
DC - Q17 S02 X22
PA - (BREE-) BREED AUTOMOTIVE TECHNOLOGY INC
IN - HUSBY HS
PN - W09955559                A1 19991104 DW2000-03
B60R-022/44 Eng 17p *
    AP: 1999WO-US02205 19990202
    - US5996421                A 19991207 DW2000-04
G01L-001/04 Eng
    AP: 1998US-0066009 19980424
PR - 1998US-0066009 19980424

++ Patent Group - GR 3 ++

5/76 DWPI - (C) Thomson Reuters- image
AN - 2000-029556 [03]
XP - N2000-022580
TI - Seating sensor for motor vehicle has
    resistance measuring device
    connected to either input or output
    terminal for measuring combined
    resistance between input and output
    terminals
DC - Q17 V03
PA - (FUJD) FUJIKURA LTD
IN - GOTO H
PN - JP11297153                A 19991029 DW2000-03
H01H-013/16 Jpn 7p *
    AP: 1998JP-0099523 19980410
PR - 1998JP-0099523 19980410

++ Records excluded from print : 2 ++
```

*[Display abbreviated]*

Note: records 3 and 4 no longer included with the display since they were identified and marked as duplicates.

**PRT GR m-n FIRST**  
where m,n are the **group numbers**

**FIRST** displays only the first document of each group.

**prt gr 1-3 first**

```
++ Patent Group - GR 1 ++  
  
1/76 DWPI - (C) Thomson Reuters- image  
AN - 2000-055874 [05]  
XP - N2000-043670  
TI - Air bag for passenger seat of vehicle  
DC - Q17  
PA - (CITR) AUTOMOBILES CITROEN SA  
- (CITR) AUTOMOBILES PEUGEOT SA  
IN - AMAR O  
PN - FR2778158 A1 19991105 DW2000-05 B60R-  
021/02 Fre 7p *  
AP: 1998FR-0005560 19980430  
PR - 1998FR-0005560 19980430  
  
++ Patent Group - GR 2 ++  
  
2/76 DWPI - (C) Thomson Reuters- image  
AN - 2000-038615 [03]  
XP - N2000-029159  
TI - Seat belt tension sensor for child seat to  
deploy air bag  
DC - Q17 S02 X22  
PA - (BREE-) BREED AUTOMOTIVE TECHNOLOGY INC  
IN - HUSBY HS  
PN - WO9955559 A1 19991104 DW2000-03 B60R-  
022/44 Eng 17p *  
AP: 1999WO-US02205 19990202  
- US5996421 A 19991207 DW2000-04 G01L-001/04  
Eng  
AP: 1998US-0066009 19980424  
PR - 1998US-0066009 19980424  
  
++ Patent Group - GR 3 ++  
  
5/76 DWPI - (C) Thomson Reuters- image  
AN - 2000-029556 [03]  
XP - N2000-022580  
TI - Seating sensor for motor vehicle has  
resistance measuring device connected to either  
input or output terminal for measuring combined  
resistance between input and output terminals  
DC - Q17 V03  
PA - (FUJD) FUJIKURA LTD  
IN - GOTO H  
PN - JP11297153 A 19991029 DW2000-03 H01H-  
013/16 Jpn 7p *  
AP: 1998JP-0099523 19980410  
PR - 1998JP-0099523 19980410
```

## **Notes**

