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Why Use Questel for Patent Searching?

Most Comprehensive Collection of Patent Databases

- Comprehensive Patents Coverage
 - over 90 countries
 - comprehensive US coverage
 - comprehensive international coverage
- Quick database updating
- Unique Intellectual Property Databases
 - unique databases
 - unique loads(indexing, standardized patent data)

FAMPAT

International Patents

Producer: Questel

DWPI

International Patents

Producer: Thomson Reuters

PHARM

Pharmaceutical Patents

Producer: INPI

MMS

Merged Markush Service

Prod: Thomson Reuters

Family database with full text and legal status

Easy crossfile searching with other patent databases

Compatible with MMS

Exclusive Structure Searching Service

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 1st 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 the day.

file dwpi

Selected file: DWPI

Derwent World Patents Index, (c) 2010
Thomson Reuters
UP (basic), UE(equiv), UA (poly), UB
(chem): updates through 2010-34
Reloaded. French & German abstracts and
US Classes are now included.
For source data, use in combination
with DWPIMV (Member View) file.
For details, please see QO website and
DWPI/DWPX/DWPIMV FactSheet.
Last database update : 2010/05/27
(YYYY/MM/DD)

Search statement 1

fiber optics

Frequency	Term
287333	FIBER
25791	OPTICS

** SS 1: Results 1.950

Search statement 2

prt

1/1950 DWPI - (C) Thomson Reuters-
image
AN - 2010-E58015 [30]
TI - Shifting apparatus for changing
frequency with application of total
internal reflection has ring
which is located in rotation plane of
rails, and is displaced along
hydraulic actuators with respect to axis
rotation of rails
DC - P81 V07
PA - (KRYV/) KRYVOBOK A
IN - KRYVOBOK A
PN - WO201043931 A1 20100422
DW2010-30 Eng 14p *
AP: 2008WO-IB54264 20081016
PR - 2008WO-IB54264 20081016

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	20
DETAIL	ON
IMAGE	GIF
SIZE	100%
MFAM	US
MSGDOC	1000
MAXDOC	1000
MAXVOL	0
DOCLA	
FTSTG	APP
PSORT	FIRST
HITS	OFF

Modify permanent options:

- number of occurrences for individual terms searched

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

- 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**

- DOCLA:
 - Sets the preferred language for the title, abstract, claims and description. You can specify up to 3 languages.
By default, the option is set to DOCLA EN LA if the search language preference is set to 1 or DOCLA FR LA on if the option is set to 2.
To disable DOCLA: (P) OP DOCLA OFF
When DOCLA is disabled: If the English title is not available in TI, the contents of the field FT (or if GT or OTI) will be displayed in the TI field. If the abstract English AB is not available, the field content MTAB (or FAB or GAB or OAB) will be displayed in the field AB. If English claims are not available, the ECLM field will be replaced by FCLM or GCLM or OCLM.
The DOCLA option supersedes/overrides the MFAM option.

- MFAM:

- Set a list of preferred countries (up to 7). If no selection is made, the default is set as the PCT minimum documentation collection with the order as follows: EP, US, WO, GB, FR, DE, CH, BE, JP, SU/RU. This means that title, Assignee, Inventor, and Abstract data will be selected from the EP record as a basis for building the record. If there is no EP record in the family, title, assignee, inventor and abstract data will be selected from the US record. If there is no US record in the family, data from the WO record will be used. For the AB, OBJ, ADB and ICLM fields, the content is retrieved from all family members when information is available in display formats ALL and TAB, regardless of the MFAM preferences.

The order of priority for displays is DOCLA then MFAM. If the DOCLA option is disabled, the display is managed by MFAM only.

Two other user options are available:

- FTSTG:

- By default, for EP and US documents, claims and description are displayed from the application (A stage) The order can be modified to display granted patent claims and descriptions (when available):
(P) OP FTSTG TSO To view the description and claims of EP or US granted patents
(P) OP APP FTSTG To return to the display of claims and the description of the application

- HITS:

- Displays the title, abstract, claims and descriptions that contain the search terms, which may give a composite view of the family, such as the title of one member, the abstract of a second member and the claims and the description of a third member.
If the search terms appear in the same field of several family members, the display of the hits is based on the DOCLA and MFAM selections. By default, HITS is disabled.
(P) OP HITS ON To enable
(P) OP HITS OFF To re-disable

The FTSTG and HITS options are mutually exclusive. If the HITS option is enabled, the FTSTG option is ignored.

- 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 HLIIG 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  APPALERT     PATENT APPLICATION ALERT
4  ATFULL
5  BEFULL
6  BIOT         Biotechnology Abst
7  BODACC       CURRENT ENTRIES IN TRADE REGISTER
   BREVINPI     INPI-OEB IMAGE FILE
8  BRFULL      MODEL
9  CACLMS
10 CAFULL
11 CAMARK       Canadian Trademarks
12 CHFULL
13 CNFULL       CHINA PATENTS
14 CNFULLA
15 CNFULLC
16 CNFULLU
17 COMP         Ei Compendex
18 CPAT         Chinapatent
19 CRXX         Claims Reexam.
```

(display abbreviated)

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

FILE E+

```
1  DWPIMV       Derwent World Patents Index M View
2  DWPX         DERWENT WORLD PATENTS INDEX
3  ECLA         EPO INTERNAL CLASSIFICATION SCHEME
4  ECLADEF      MANUEL OF EPO CLASSIFICATION CODES
5  ECLATX       EPO INTERNAL CLASSIFICATION SCHEME
6  EPAPAT       EUROPEAN PATENTS (Full Text APPLICATIONS)
7  EPAT         EUROPEAN PATENTS
8  EPBPAT       EUROPEAN PATENTS (Full Text GRANTED)
9  EPPATENT     EUROPEAN PATENTS
10 ESFULL
11 EUROPAT      EUROPEAN PATENTS
12 FAMABS       base famabs
   FAMDESC      file Famdesc
13 FAMDESCQ     file Famdescq
14 FAMPAT       Family database PLUSPAT
15 FIMARK       FINNISH TRADEMARKS
16 FMARK        FRENCH TRADEMARKS
```

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

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	nD	interactive (5d) graphics ** SS 4: Results 107
Search terms must be adjacent in any order, separated by exactly N (from 1 to 9) number of words	=nD	interactive (=5d) graphics ** SS 5: Results 7
Search terms must be adjacent in any order	D	interactive (d) graphics ** SS 6: Results 42
Search terms must be adjacent in order specified, separated by up to N (from 1 to 9) number of words	nW	interactive (3w) graphics ** SS 7: Results 79
Search terms must be adjacent in order specified, separated by exactly N (from 1 to 9) number of words	=nW	interactive (=3w) graphics ** SS 8: Results 5
Search terms must be adjacent in order specified	W	interactive (w) graphics ** 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)	F	interactive (f) graphics ** SS 10: Results 215
Search terms must appear in the same paragraph (also NOTP)	P	interactive (p) graphics ** SS 11: Results 173
Search terms must appear in the same sentence (also NOTS)	S	interactive (s) graphics ** SS 12: Results 173
Link the search terms from the same field to be retrieved (also NOTL)	L	1989/pr (L) gb/pr

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).

interactive graphics
 ** SS 13: Results 40

Number of results is
 the same as in SS 9

interactive (w) graphics
 ** SS 9: Results 40

SDOC Operator

SDOC, meaning Same DOCument is a new operator that has been added to Questel operators specifically for the **FamPat** database. Since FamPat is a virtual database with text and fields from many databases, including PlusPat, over 20 full-text databases and the legal status database LGST, a record can have multiple claims, descriptions, patent numbers and dates. The SDOC allows you to LINK concepts together that would have been in the same document in the original files. For example the following strategy compares a keyword search in Fampat using AND and SDOC.

File : FAMPAT

```
SS  Results
  1      2213  INTERACTIVE AND GRAPHICS
  2      1960  INTERACTIVE SDOC GRAPHICS
  3        253  1 NOT      2
```

Search statement 4

The record below from SS 3 using AND operator has ‘graphics’ in the abstract of one application, and ‘interactive’ in the objectives of another application.

```
2/253 FAMPAT - (C) Questel- image
FAN - 20100560027007
PN - US2010045594      A1 20100225  [US20100045594]
   - US2010123732      A1 20100520  [US20100123732]
TI - SYSTEMS, METHODS, AND DEVICES FOR DYNAMIC MANAGEMENT OF DATA STREAMS
    UPDATING DISPLAYS
PA - CALIFORNIA, REGENTS OF THE UNIVERSITY OF, THE; UNIV CALIFORNIA
UP - 2010-08
AB - (US20100045594)
1.3
    ...hanism, such as a network interface card or wireless interface
    card, and a video image controller, such as a ***graphics*** card.
    Attached to the tiled display may be one or more user computers ...
AB - (US20100123732)
OBJ - (US20100123732)
3.1
    [0025]The present disclosure generally relates to the
    ***interactive*** display and manipulation of large images or large
    datasets on an array-type display, such as a tiled display system.
```

The 1,960 records from SS 2 using SDOC will only have the two keywords in the same family member document.

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 PHOTOGRAPHAIAC
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 PHOTOGRAPHAIAC
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, PCTFULL, FAMPAT, 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.

OSTEOPOROSES
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.

HIS (HI)	to display the search strategy for the entire session in full
HI n	to display the specific search statement
HIS SHORT	to display the search strategy for the entire session in summary
HIS FROM BEGIN	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 - 16/11/2009

Save search creation : DIGITAL

sho

Save search : DIGITAL

DWPI - 2009/11/16

sho digital

Save search : DIGITAL

DWPI - 2009/11/16

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 the day after a session is ended. To reuse a search when reconnecting to the system that day, answer 'Y' to the question: "Continue the search in Questel: Y / N?"

```
(C) QUESTEL 1994
QUESTEL.ORBIT (TM) 1998 - v256          04/06/10 20*22*49
Last connection: 04/06/10 17*17*14
```

```
WELCOME to QUESTEL - Your PATENT, TRADEMARK & DESIGN Service
www.questel.com - Gateway to intellectual Property resources
-For Times of operation of Questel service, enter INFO HOURS
-Price Lists, Contracts and Fact Sheets available on website
-See website for details on all our IP products and services
- FamPat & PlusPat reloaded 04/2009
```

```
Continue the search in Questel.Orbit: 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.

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 STEREO SCOPIC/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)

Display from previous search statements: PRT SS N

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

etc.)

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

prt ss 1 full 7	<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</pre>
------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>DT - Basic</p> <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 HLIG** 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

SDOC Same Document

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 FAMPAT 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:

/field term	e.g. /ab optical	where AB - abstract field
term/field	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** or **IND** 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  INFLATABL
5       17476 INFLATABLE
6          1  INFLATABLEA

7          1  INFLATABLEBLADDER
8          1  INFLATABLECHAMBER
9          1  INFLATABLEDEVICE
10         2  INFLATABLEEE
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

1st column Index number
 2nd column Number of occurrences in the
 database
 3rd 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 EMERV 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 EMERV N V UNILEVER EMERY UNILEVER EMERY V UNILEVER EMERY N U UNILEVER EMERY N V UNILEVER EMERY NV UNILEVER EMERY PLC UNILEVER ERMERY 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

CCNNNNNNN/pn

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

Note 1: You do not need to zero fill NNNNNNN.

OR

Step 2b

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

CCYYNNNNN/pn or CCYYYYNNNNN/pn

where CC - 2 character country code
YY - 2 last digits of a year
YYYY - 4 digit year
NNNNN - 5 digit patent/pub. number

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

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*

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 "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 D0 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
PAO - 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 4-digit year and 7-digit number 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 4-digit year and 7-digit number format; 5-digit for PCTs):

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 contains 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.

Searching Patents Review

Using Field Qualification

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

Database Subset Searching

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

Date Range Searching

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

Searching and Displaying Legal Actions

In 2010, FamPat was integrated with data from over 20 fulltext databases and from the Legal Status (LGST) database. This enabled full text and legal actions to be searched in FamPat.

Answer sets can now be tailored to reflect the following event groups by searching the codes below in the **EG** field and ANDing it to an answer set, e.g., **5 and opp/eg**

- NIF** - Not in force, lapses, expiries, refusals, withdrawals, revocations, suspensions and other similar events that negatively effect the applicant's claim for protection.
- PIF** Payment of fees, In force
- COR** Corrections, amendments, modifications
- RES** Restitution, reinstatements and restorations: inforce
- OPP** Opposition, Re-examination
- ADM** Administrative actions, official notifications, misc. office actions, errata
- NMC** Name change applicants, owners, inventors; others: opponents, requestors
- SPC** Actions concerning complementary or supplementary certificates of protection.
- EXM** Examination requests, examination procedures and processes, search reports
- LIC** - Rights related to Licensing and exploitation
- RGR** Registrations, Grants, In force
- ENP** Entry into national phase, translations (EP, PCT)
- RLW** Refusals, Lapses, expiries, withdrawals from national offices (EP).

In addition, whether a patent is **DEAD** or **ALIVE** can be searched in the latest event group field **LEG**

```
File : FAMPAT

SS Results
1      282  EXELIXIS/PA
2      137  1 AND DEAD/LEG
```

Two new display formats are available in FamPat that include legal actions:

Formats	Fields
LEGL	FAN PN TI PA PA0 IN IN0 AP PPN PAP FD PR DS LGL UP
LEGE	FAN PN TI PA PA0 IN IN0 AP PPN PAP FD PR DS LGLE UP

The LGL field contains all of the legal actions. The LGLE field only contains the English language legal actions.

PRT LEGE 2

2/42752 FAMPAT - (C) Questel- image
FAN - 20101470020572
PN - US2010126903 A1 20100527 [US20100126903]
- EP2192053 A1 20100602 [EP2192053]
TI - Product cushioning device for packaging shock sensitive products
PA - SMITH FORREST
PA0 - Smith Forrest; 2210 S Huron Drive; Santa Ana, CA 92704 (US)
PAH - (EP2192053)
(A1) SMITH FORREST (US)
PAH - (US20100126903)
(A1) SMITH FORREST
RP - (US20100126903)
(A1) LAUBSCHER & LAUBSCHER, P.C.; 1160 SPA ROAD, SUITE 2B,
ANNAPOLIS,
MD, 21403 [US]
IN - SMITH FORREST
INO - Smith Forrest
AP - 2008US-0324078 20081126; 2009EP-0173018 20091014
PR - 2008US-0324078 20081126
DS - (EP2192053)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV
MC MK MT NL NO PL PT RO SE SI SK SM TR
- BA RS
LGL- (EP2192053)
20091014 EP-API [POS; EXM]
FILING DETAILS
EP09173018 20091014 [2009EP-0173018]
- 20100602 EP-A1 [POS; EXM]
Application published with search report
EP2192053 A1 20100602 [EP2192053]
- 20100602 EP/AK-A [POS; ADM]
DESIGNATED CONTRACTING STATES:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV
MC MK MT NL NO PL PT RO SE SI SK SM TR
- 20100602 EP/AX-A [POS; ADM]
EXTENSION OF THE EUROPEAN PATENT TO
BA RS
UP - 2010-21

Tailoring Results

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

PRT TI AB 1-3	Displays title and abstract for the first 3 records (1 through 3)
PRT PA PN SS 2 1-10	Displays patent assignee and patent/pub 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, 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]

The **PLUS** feature allows you to add additional fields to predefined formats.

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 by itself will list all of the predefined display formats in a database.

FOR<format_name> <field 1> <field 2>...<field 10>

Important

On the Questel service, up to 10 user-defined formats are allowed per User ID. User-defined format names can only contain up to 4 characters and 10 fields per format are allowed. User-defined formats are independent of the database choice.

For example, to create a format, **PAT**, 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 2nd 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

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

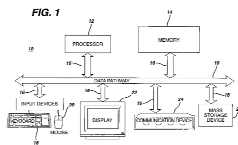
```
** SS 1: Results 71
```

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.

Special Display Features

Legal Feature

Although FamPat now contains searchable and displayable legal status, legal status can be displayed in any patent database on Questel by using the LEGAL feature. 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.

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

Display using the Legal Feature: PRT <legal feature>

PRT LEGAL	Displays the first record from the last results set and legal status information
PRT MAX LEGAL MAXE	Displays the 1st record from last results set in MAX format, Legal Status (Eng.)
PRT SS 3 MAX 1-5 LEGALALL	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)
PAO     -  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

CITALL Feature

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

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

PRT <format> <n1-n2/set> CITALL

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 alkoxyisilyl-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
- ◆ **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:

FULLEPO	EPAPAT
FULLWO	PCTFULL
FULLUS	USPAT
FULLTEXT	EPAPAT, PCTFULL, USPAT
FULLEPO CLMS	EPAPAT
FULLWO CLMS	PCTFULL
FULLUS CLMS	USPAT
FULLCLMS	EPAPAT, PCTFULL, USPAT

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

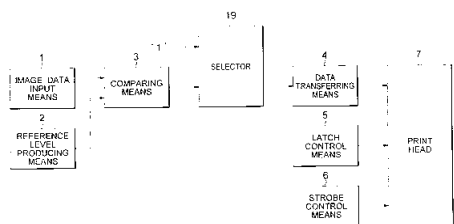
Notes for using PLUS:

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 Results Review

Formats

PRT <field>	Tailed field display, use 2-letter field qualifier
PRT <format> PLUS <field>	Include additional field display, use 2-letter field qualifier
PRT <format> MINUS <field>	Exclude field display, use 2-letter field qualifier

User-defined Formats

FOR	List the predefined display formats
FOR <format_name> <field 1>...<field 10>	Create user own format for customized display of records and searching.
PRT <format_name>	Display records using user-def. format
/<format_name> search_term(s)	Search using user-defined format
FOR USER	Display the list of user-defined formats
ER FOR <format_name>	Erase a user-defined format
KWIC	Displays Key Words in Context
PRT <format> LEGAL	Display records with legal actions
PRT <format> CITALL	Display records with cited references
PRT <format> FULLCLMS	Display records with claims from USPAT, EPAPAT, and PCTFULL
PRT <format> FULLTEXT	Display records with full text from USPAT, EPAPAT and PCTFULL
PRT <format> PLUS <field/format> (database)	Displays records from multiple databases

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:

- XPN** Patent/Publication Numbers
- XAP** Application Numbers
- XPR** Priority Numbers
- XCT** Citation Numbers

Extracting Numbers to a MEM List

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

Displaying the Extracted Terms in a MEM List

- PRT MEM** Displays the first fifteen numbers in the MEM1 list.
- PRT MEM BIO NONSTOP** Displays continuously all the numbers in the **MEM** list called BIO
- PRT MEM 1-5,7** Display the first five and the seventh entry in the MEM1 list.
- HIS MEM** 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.

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

Statistical Analysis

Questel offers tools for the statistical analysis of retrieved data. With the MEMSORT command MEMS, a sorted memory list can be created. 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. The default for MEMS will analyze a random sample of 50 records.

Basic Use: **MEMS <SET, n-n> /field**

- Examples:* **MEMS SET /PAN** Statistical analysis on Patent Assignees from the entire search set
- MEMS 1-256 /INN** Statistical analysis on Inventors from record 1-256
- MEMS /IC** Statistical analysis on a random sample of 50 records

Customized Named MEMS Lists

A named MEM list has a 12-character limit and you can have a total of 150 named lists. Basic Use: **MEMS <SET, n-n> name /field**

Example: **MEMS SET IPG /PAN** Statistical analysis on Patent Assignees on the named list IPG

STORE a MEMS List

You can now store the results of your MEMS lists.

Basic Use: **MEMS <SET, n-n> name STORE /field**

Search MEMS Terms

MEMS terms may be searched using the ***MEMS name n-n /fld**

Example: ***MEMS IPG 1 /PA** Searches the first term on the IPG list in the PA field

Additional Options

- HIS MEM** Displays the SAVED and STOREd MEM lists
- HIS MEM STORE** Displays the STOREd MEM lists
- HIS MEM SAVE** Displays the SAVED MEM lists
- PRT MEMS name** Displays the statistical analysis results

Modify an existing MEMS list

- ER MEMS name** Erases the MEMS list
- ER MEMS name n-n** Erases the terms n-n on MEMS list
- KE MEMS name n-n** Keeps the terms n-n on MEMS list

GET Macros

To aid searchers in using the MEMS command, “GET macros” have been created for 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 for more detail. 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

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 detergen+ 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
```

```
file ecla
```

Select file and run keyword search.

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

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

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 cellulas...]

file fampat

***mems 1/ec**

** SS 2: Results 419

2 not 1

** SS 3: Results 395

PRT TI 2-3

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

Search ECs by using *MEMS command on the numbers assigned to the list members that you wish to define. Note that no field qualifier is necessary in ECLA when searching codes since the codes are included in the Basic Index.

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

Switch back to FamPat file.

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

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.

Display results using KWIC format.

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 ecla

Search statement 1

internet s (bill+ or pay+)

** SS 1: Results 1

Search statement 2

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]

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

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

indicating arrangements [N9904]
SG . ***T04M-215/22*** Bandwidth or
usage-sensitive billing [N0110]

file fampat

***memo 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

Crossfile Searching and Statistical Analysis Techniques Review

Crossfile searching

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

Statistical Analysis

MEMS /<field>	Extract terms onto a sorted memory list
*MEMS /<field>	Search extracted search terms from a sorted memory list
MEMS [ss N] /<field> [Options]	Extract terms onto a sorted memory list from a specific search set and use additional options
GET <field>	Perform statistical analysis on the extracted terms from a specified field in the last results set and display top fifteen results.
GET ss N [m1-m2] <field> from <name>	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).
GET <field> TOSEL <listname>	Extract terms from a specific database field to a user-named list and perform statistical analysis.
GET <field> TOSEL <name> [STORE / TOP N / GT N]	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]
HIS MEM	Display the listing of the existing memory lists.
PRT MEMS <listname>	Display the contents of the user-defined memory list.
MEMS SET /<field> [options]	Detailed analysis of the particular parts of the field.
PRT MEMS [m-n]	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

Family, Citation, and Cluster Searching Techniques

Family Searching

FAM Command

The patent family command **FAM** is available in PLUSPAT, FAMPAT and DWPI. **FAM** will provide the extended family and find records with any common priorities. Even though FamPat and DWPI already contain families, they are not the extended families. DWPI often puts continuations, CIPs and divisionals into separate records. FAM should find these records.

Step 1

Select a database (PLUSPAT, FAMPAT or DWPI).

Step 2

Depending on whether the publication, application or priority number is known use the appropriate qualifier:

FAM <patent/pub. number>/PN

FAM <application number>/AP

FAM <priority number>/PR

Step 3

Display the patent family search results in the desired format.

PRT [ss N format n1-n2/set]

file pluspat

Selected file: PLUSPAT

fam us5000001/pn

```
** SS 1: Results 5
  Search statement 2
```

prt set

```
1/5 PLUSPAT - (C) Questel
PN - DK20089 D0 19890118 [DK8900200]
STG - (D0) Patent application filed
OTI - (D0) STYREINDRETNING FOR EN HYDRAULISK MOTOR
PA - (D0) DANFOSS AS (DK)
PA0 - DANFOSS A/S (DK)
IN - (D0) CHRISTENSEN THORKILD; NISSEN HARRY STENTOFT; CHRISTENSEN CARSTEN;
  THOMSEN SVEND ERIK; ZENKER SIEGFRIED
IC - (D0) F15B-011/02
PN2 - DK20089 A 19890723 [DK8900200]
STG2- (A) Patent application made available to the public
OTI2- (A) STYREINDRETNING FOR EN HYDRAULISK MOTOR
PA2 - (A) DANFOSS AS (DK)
IN2 - (A) CHRISTENSEN THORKILD; NISSEN HARRY STENTOFT; CHRISTENSEN CARSTEN;
```

THOMSEN SVEND ERIK; ZENKER SIEGFRIED

IC2 - (A) F15B-011/02
 PN3 - DK162114 B 19910916 [DK-162114]
 STG3- (B) Document laid open to public inspection
 OTI3- (B) STYREINDRETNING FOR EN HYDRAULISK MOTOR
 PA3 - (B) DANFOSS AS (DK)
 IN3 - (B) CHRISTENSEN THORKILD; NISSEN HARRY STENTOFT; CHRISTENSEN CARSTEN;
 THOMSEN SVEND ERIK; ZENKER SIEGFRIED

IC3 - (B) F15B-011/02
 PN4 - DK162114 C 19920217 [DK-162114]
 STG4- (C) Patent specification
 OTI4- (C) STYREINDRETNING FOR EN HYDRAULISK MOTOR
 PA4 - (C) DANFOSS AS (DK)
 IN4 - (C) CHRISTENSEN THORKILD; NISSEN HARRY STENTOFT; CHRISTENSEN CARSTEN;
 THOMSEN SVEND ERIK; ZENKER SIEGFRIED

IC4 - (C) F15B-011/02
 AP - DK20089 19890118 [1989DK-0000200]
 PR - DE3801829 19880122 [1988DE-3801829]
 - DE3841507 19881209 [1988DE-3841507]
 ICAA- F15B-011/00 [2006-01 A F I R M JP]; F15B-011/05 [2006-01 A L I R M JP];
 F15B-013/04 [2006-01 A - I R M EP]
 ICCA- F15B-011/00 [2006 C F I R M JP]; F15B-013/00 [2006 C - I R M EP]
 EC - F15B-013/04C2
 DT - Corresponding document

2/5 PLUSPAT - (C) Questel- image
 PN - DE3841507 C1 19890629 [DE3841507]
 STG - (C1) Patent specification (First publ.)
 PA0 - Sauer-Danfoss (Nordborg) A/S, Nordborg, DK
 IN - (C1) ZENKER, SIEGFRIED, 8011 KIRCHSEON, DE
 IC - (C1) F03C-001/08 F04B-001/08 F15B-011/02 F16H-039/44
 AP - DE3841507 19881209 [1988DE-3841507]
 PR - DE3841507 19881209 [1988DE-3841507]
 - DE3801829 19880122 [1988DE-3801829]
 ICAA- F15B-011/00 [2006-01 A F I R M JP]; F15B-011/05 [2006-01 A L I R M JP];
 F15B-013/04 [2006-01 A - I R M EP]
 ICCA- F15B-011/00 [2006 C F I R M JP]; F15B-013/00 [2006 C - I R M EP]
 EC - F15B-013/04C2
 DT - Basic

3/5 PLUSPAT - (C) Questel- image
 PN - US5000001 A 19910319 [US5000001]
 STG - (A) Patent
 TI - (A) Dual load-sensing passage adjustable relief valves for hydraulic
 motor control
 PA - DANFOSS A/S, A COMPANY OF DENMARK
 - DANFOSS FLUID POWER A/S
 - SAUER-DANFOSS HOLDING APS
 PA1 - (A) DANFOSS AS (DK)
 PA0 - Danfoss A/S, Nordborg [DK]
 PAH - CHRISTENSEN, CARSTEN; FROM 19881219 TO 19881219
 - CHRISTENSEN, THORKILD; FROM 19881219 TO 19881219
 - NISSEN, HARRY S.; FROM 19881219 TO 19881219
 - THOMSEN, SVEND E.; FROM 19881219 TO 19881219
 - DANFOSS A/S, A COMPANY OF DENMARK; FROM 19881219
 - ZENKER, SIEGFRIED; FROM 19890109 TO 19890118
 - DANFOSS A/S; FROM 19890109 TO 19991129
 - SAUER-DANFOSS HOLDING A/S; FROM 19890109 TO 20030724
 - DANFOSS FLUID POWER A/S; FROM 19991129
 - SAUER-DANFOSS HOLDING APS; FROM 20030724
 RP - (A) Easton, Wayne B.; Johnson, Clayton R.
 IN - (A) CHRISTENSEN THORKILD (DK); NISSEN HARRY S (DK); CHRISTENSEN
 CARSTEN (DK); ZENKER SIEGFRIED (DK); THOMSEN SVEND E (DK)
 IC - (A) F03C-001/08 F15B-011/02 F16H-061/42
 AP - US29465789 19890109 [1989US-0294657]
 PR - DE3801829 19880122 [1988DE-3801829]
 - DE3841507 19881209 [1988DE-3841507]
 ICAA- F15B-011/00 [2006-01 A F I R M JP]; F15B-011/05 [2006-01 A L I R M JP];

F15B-013/04 [2006-01 A - I R M EP]
 ICCA- F15B-011/00 [2006 C F I R M JP]; F15B-013/00 [2006 C - I R M EP]
 EC - F15B-013/04C2
 PCL - ORIGINAL (O) : 060450000; CROSS-REFERENCE (X) : 091446000 091518000
 137596000
 DT - Corresponding document

4/5 PLUSPAT - (C) Questel
 PN - CA1332690 C 19941025 [CA1332690]
 STG - (C) Patent
 TI - (C) CONTROL APPARATUS FOR A HYDRAULIC MOTOR
 FT - (C) APPAREIL DE COMMANDE POUR MOTEUR HYDRAULIQUE
 PA - (C) DANFOSS AS (DK)
 PA0 - DANFOSS A/S (DK)
 IN - (C) CHRISTENSEN THORKILD (DK); NISSEN HARRY S (DK); CHRISTENSEN
 CARSTEN (DK); ZENKER SIEGFRIED (DE); THOMSEN SVEND E (DK)
 IC - (C) F15B-011/02
 LA - ENGLISH (ENG)
 AP - CA586836 19881222 [1988CA-0586836]
 PR - DE3801829 19880122 [1988DE-3801829]
 - DE3841507 19881209 [1988DE-3841507]
 ICAA- F15B-011/00 [2006-01 A F I R M JP]; F15B-011/05 [2006-01 A L I R M JP];
 F15B-013/04 [2006-01 A - I R M EP]
 ICCA- F15B-011/00 [2006 C F I R M JP]; F15B-013/00 [2006 C - I R M EP]
 EC - F15B-013/04C2
 DT - Corresponding document

5/5 PLUSPAT - (C) Questel
 PN - JP1220708 A 19890904 [JP01220708]
 STG - (A) Doc. laid open to publ. inspec.
 TI - (A) CONTROLLER FOR HYDRAULIC MOTOR
 PA - (A) DANFOSS AS
 PA0 - (A) DANFOSS AS
 IN - (A) TORUKIRUDO KURISUTENSEN; HARI SUTENTOFUTO NITSUSEN; KARUSUTEN
 KURISUTENSEN; JIUKUFURIITO TSUENKERU; SUBUENDO ERITSUKU TOMUSEN
 IN0 - (A) CHRISTENSEN THORKILD; NISSEN HARRY S; CHRISTENSEN CARSTEN; ZENKER
 SIEGFRIED; THOMSEN SVEND E
 IC - (A) F15B-011/00 F15B-011/05
 PN2 - JP7101043 B 19951101 [JP95101043]
 STG2- (B) Publd. examined patent applic.
 IC2 - (B) F15B-011/00 F15B-011/05
 PN3 - JP2065529 C 19960624 [JP2065529]
 STG3- (C) Granted patent from 1000001 onwards
 AP - JP1388789 19890123 [1989JP-0013887]
 PR - DE3801829 19880122 [1988DE-3801829]
 - DE3841507 19881209 [1988DE-3841507]
 ICAA- F15B-011/00 [2006-01 A F I R M JP]; F15B-011/05 [2006-01 A L I R M JP];
 F15B-013/04 [2006-01 A - I R M EP]
 ICCA- F15B-011/00 [2006 C F I R M JP]; F15B-013/00 [2006 C - I R M EP]
 EC - F15B-013/04C2
 FI - F15B11/00 L; F15B11/05 A
 FTM - 3H089 FF08; 3H089 FF16; 3H089 GG02; 3H089 HH05; 3H089 JJ01; 3H089 AA16;
 3H089 AA27; 3H089 AA74; 3H089 BB10; 3H089 BB14; 3H089 BB19; 3H089 CC01;
 3H089 CC11; 3H089 DA03; 3H089 DB24; 3H089 DB29; 3H089 DB43; 3H089 DB47;
 3H089 DB49; 3H089 DB54; 3H089 DB63; 3H089 DB78; 3H089 DB79; 3H089 EE04;
 3H089 EE07; 3H089 EE13; 3H089 EE14; 3H089 EE23; 3H089 EE26; 3H089 FF07
 DT - Corresponding document

Family Displays with Legal Status

Family search - FAMSTAT feature

Family searching in PLUSPAT and FAMPAT provides Legal Status information for the following formats.

DISPLAY options for Family Search results

FAMSTAT	Displays the results of the patent family search in the PLUSPAT and FAMPAT files and the corresponding records from the Legal Status database integrated into the display. PLUSPAT will display each the individual PLUSPAT record with legal status after it; FAMPAT will display each FAMPAT record followed by legal status.
FAMSTATE	Provides the same display as FAMSTAT with English language action descriptions only.
MFAMSTAT	Merges all the family members into one PLUSPAT or FAMPAT record with an abstract, and appends the Legal Status information onto the record.
MFAMSTATE	Provides same display as MFAMSTAT with English language action descriptions only.

To locate all the family members or equivalents for the US publication number 5299248 and display the PLUSPAT family search results including the integrated Legal Status information available with English action code descriptions, use the following example:

file PLUSPAT

fam us5299248/pn

** SS 1: Results 6

famstat ←

```
1/6 PLUSPAT - (C) QUESTEL-ORBIT
PN - DE69327407 D1 20000127 [DE69327407]
STG - (D1) Granted EP number in bulletin
OTI - (D1) COMPUTERTOMOGRAPH MIT BESCHRNKTEM
SICHTFELD ZUM DARSTELLEN VON
      KOMPAKTEN STRUKTUREN
PA - (D1) LUNAR CORP (US)
IN - (D1) PELC NORBERT (US)
IC - (D1) A61B-006/03
PN2 - DE69327407 T2 20000713 [DE69327407]
STG2- (T2) Trans. Of EP patent
OTI2- (T2) COMPUTERTOMOGRAPH MIT BESCHRNKTEM SICHTFELD ZUM DARSTELLEN VON
      KOMPAKTEN STRUKTUREN
PA2 - (T2) LUNAR CORP (US)
IN2 - (T2) PELC NORBERT (US)
IC2 - (T2) A61B-006/03
AP - DE69327407 19930423 [1993DE-6027407]
PR - WOUS9303820 19930423 [1993WO-US03820]
```

Important: Please note the different command syntax. This display format does not require the PRT command.

Note: The corresponding Legal Status record appears immediately after the record from PLUSPAT and INPD.

1/2 LEGALI - (C) LEGSTAT
PN - DE 69327407 [DE69327407]
DT - DE-P
ACT - 20000127 DE/REF-P
CORRESPONDS TO ENTSpricht
(EP 695141 20000127 [EP-695141])
- 20000713 DE/8373
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
BEEN PUBLISHED UEBERSETZUNG DER PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST
EINGEGANGEN UND VERÖFFENTLICHT WORDEN
UP - 2000-28

2/2 LEGALI - (C) LEGSTAT
PN - EP 695141 [EP-695141]
AP - EP 93912346/93 19930423 [1993EP-0912346]
DT - EP-P
ACT - 19930423 EP/AE-A
EP-APPLICATION
EUROPÄISCHE ANMELDUNG
{EP 93912346/93 19930423 [1993EP-0912346]}
- 19960207 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN
DE FR GB IT
- 19960207 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
VERÖFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT
- 19960207 EP/17P [+]
REQUEST FOR EXAMINATION FILED
PRUEFUNGSANTRAG GESTELLT
951114
- 19961106 EP/17Q [+]
FIRST EXAMINATION REPORT
ERSTER PRUEFUNGSBESCHEID
960923
- 19991020 EP/RBV [+]
DESIGNATED CONTRACTING STATES (CORRECTION):
BENANNT VERTRAGSSTAATEN (KORR.)
DE FR GB IT
- 19991222 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:
IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN
DE FR GB IT
- 19991222 EP/B1 [+]
PATENT SPECIFICATION
PATENTSCHRIFT
- 20000127 EP/REF-P
CORRESPONDS TO:
ENTSpricht
(DE 69327407 20000127 [DE69327407])
- 20000315 EP/ITF [+]
IT: TRANSLATION FOR A EP PATENT FILED
IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO
MODIANO & ASSOCIATI S.R.L.
- 20000407 EP/ET [+]
FR: TRANSLATION FILED
FR: TRADUCTION A ETE REMISE
UP - 2000-35

2/6 PLUSPAT - (C) QUESTEL-ORBIT
PN - EP0695141 A1 19960207 [EP-695141]
STG - (A1) Public. Of applic. With search report

TI - (A1) REDUCED FIELD-OF-VIEW CT SYSTEM FOR IMAGING COMPACT EMBEDDED
 STRUCTURES
 OTI - (A1) TOMODENSITOMETRE A CHAMP DE VISION ETROIT POUR IMAGERIE DES
 STRUCTURES COMPACTES PROFONDES
 - (A1) COMPUTERTOMOGRAPH MIT BESCHRANKTEM SICHTFELD ZUM DARSTELLEN VON
 KOMPAKTEN STRUKTUREN
 PA - (A1) LUNAR CORP (US)
 IN - (A1) PELC NORBERT J (US)
 IC - (A1) A61B-006/03
 PN2 - EP0695141 B1 19991222 [EP-695141]
 STG2- (B1) Patent
 TI2 - (B1) REDUCED FIELD-OF-VIEW CT SYSTEM FOR IMAGING COMPACT EMBEDDED
 STRUCTURES
 OTI2- (B1) TOMODENSITOMETRE A CHAMP DE VISION ETROIT POUR IMAGERIE DES
 STRUCTURES COMPACTES PROFONDES
 - (B1) COMPUTERTOMOGRAPH MIT BESCHRANKTEM SICHTFELD ZUM DARSTELLEN VON
 KOMPAKTEN STRUKTUREN
 PA2 - (B1) LUNAR CORP (US)
 IN2 - (B1) PELC NORBERT J (US)
 IC2 - (B1) A61B-006/03
 LA - ENGLISH (ENG)
 AP - EP93912346 19930423 [1993EP-0912346]
 PR - WOUS9303820 19930423 [1993WO-US03820]
 DS - DE FR GB IT

1/2 LEGALI - (C) LEGSTAT

PN - DE 69327407 [DE69327407]
 DT - DE-P
 ACT - 20000127 DE/REF-P
 CORRESPONDS TO
 ENTSPRICHT
 (EP 695141 20000127 [EP-695141])
 - 20000713 DE/8373
 TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
 BEEN PUBLISHED
 UEBERSETZUNG DER PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST
 EINGEGANGEN UND VERÖFFENTLICHT WORDEN
 UP - 2000-28

2/2 LEGALI - (C) LEGSTAT

PN - EP 695141 [EP-695141]
 AP - EP 93912346/93 19930423 [1993EP-0912346]
 DT - EP-P
 ACT - 19930423 EP/AE-A
 EP-APPLICATION
 EUROPÄISCHE ANMELDUNG
 {EP 93912346/93 19930423 [1993EP-0912346]}
 - 19960207 EP/AK-A1 [+]
 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
 IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN
 DE FR GB IT
 - 19960207 EP/A1 [+]
 PUBLICATION OF APPLICATION WITH SEARCH REPORT
 VERÖFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT
 - 19960207 EP/17P [+]
 REQUEST FOR EXAMINATION FILED
 PRÜFUNGSANTRAG GESTELLT
 951114
 - 19961106 EP/17Q [+]
 FIRST EXAMINATION REPORT
 ERSTER PRÜFUNGSBESCHEID
 960923

- 19991020 EP/RBV [+]

[Display abbreviated]

mfamstate

<< MFAM document - family 1 >>

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
PN - US5299248 A 19940329 [US5299248]
- DE69327407 D1 20000127 [DE69327407]
- DE69327407 T2 20000713 [DE69327407]
- EP0695141 A1 19960207 [EP-695141]
- EP0695141 B1 19991222 [EP-695141]
- US5485492 A 19960116 [US5485492]
- US5533080 A 19960702 [US5533080]
- WO9424939 A1 19941110 [WO9424939]
TI - (A) Reduced field-of-view system for imaging compact embedded structures
PA - (A) LUNAR CORP (US)
PAO - Lunar Corporation, Madison WI [US]
IN - (A) PELC NORBERT J (US)
AP - 1993US-0052228 19930422; 1993DE-6027407 19930423; 1995US-0438138 19950508; 1994US-0216235 19940322; 1993WO-US03820 19930423; 1993EP-0912346 19930423
PR - 1992US-0860818 19920331; 1993US-0052228 19930422; 1993WO-US03820 19930423; 1994US-0216235 19940322; 1995US-0438138 19950508
IC - A61B-006/03 G01N-023/00 H05G-001/60
EC - A61B-006/03B18; A61B-006/03B4; H05G-001/26; H05G-001/60
PCL - 378004000 378005000
DS - (EP-695141)
DE FR GB IT
DS - (WO9424939)
JP; AT (EP); BE (EP); CH (EP); DE (EP); DK (EP); ES (EP); FR (EP); GB (EP); GR (EP); IE (EP); IT (EP); LU (EP); MC (EP); NL (EP); PT (EP); SE (EP)
AB - (US5299248)
A CT apparatus for scanning compact structures associated with a larger body uses radiation source producing a reduced field-of-view to simplify construction and reduce exposure of the larger body. Truncation artifacts in the reconstructed image caused by volume elements in the larger body imaged by the radiation beam only for projections at some angles, are reduced by acquiring two projections at two different energies and combining those projections to compensate for the attenuation of the radiation by the volume elements of the larger body.
ACTE- (US5299248) LEGALI - (C) EPO
19940503 US/DJ-A [-]
ALL REFERENCES SHOULD BE DELETED, NO PATENT WAS GRANTED
- 20000718 US/WDR-A [-]
PATENT WITHDRAWN ACCORDING TO LISTING ISSUED BY THE USPTO ON PRS-DATE
ACTE- (WO9424939) LEGALI - (C) EPO
19941110 WO/AK [+]
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT JP
- 19941110 WO/AL [+]
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT
AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
- 19950105 WO/DFPE
REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
- 19950201 WO/121
EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS

```

APPLICATION
ACTE- (DE69327407) LEGALI - (C) EPO
20010111 DE/8364-A [+]
NO OPPOSITION DURING TERM OF OPPOSITION
- 20030213 DE/8339-A [-]
CEASED/NON-PAYMENT OF THE ANNUAL FEE
ACTE- (EP-695141;) LEGALI - (C) EPO
19960207 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB IT
- 19960207 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
EFFECTIVE DATE: 19951114
- 19961106 EP/17Q-A [+]
FIRST EXAMINATION REPORT
EFFECTIVE DATE: 19960923
- 19991020 EP/RBV-A [+]
DESIGNATED CONTRACTING STATES (CORRECTION):
DE FR GB IT
- 19991222 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
DE FR GB IT
- 20000127 EP/REF-A
CORRESPONDS TO:
(DE 69327407 20000127 [DE69327407])
- 20000315 EP/ITF-A [+]
IT: TRANSLATION FOR A EP PATENT FILED
OWNER: MODIANO & ASSOCIATI S.R.L.
- 20000407 EP/ET-A [+]
FR: TRANSLATION FILED
- 20001206 EP/26N-A [+]
NO OPPOSITION FILED
- 20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>
- 20021211 EP/GBPC-A [-]
GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
EFFECTIVE DATE: 20020423
- 20030207 EP/REG-A; FR/ST [-]
FR: LAPSED
<FR>

```

FAMILY SEARCH in QWEB

The FAMILY SEARCH on QWEB's Main Menu will display the same data as the FAMSTAT command as run in PlusPat, but with two bonuses:

- 1/ It will also display a summary table of all the family members with their publication, application, and publication dates. The PlusPat display and legal status that you get with FAMSTAT will follow.
- 2/ It will log you out of Questel immediately after the search, so there are no extraneous connect-time charges.

Here is the family table display:

PATENT FAMILY

#	Patent No.	Kind	Date	Applic.No.	Date
1)	CA1332690	C	19941025	1988CA-0586836	19881222
2)	DE3841507	C1	19890629	1988DE-3841507	19881209
3)	DK8900200	D0	19890118	1989DK-0000200	19890118
	DK8900200	A	19890723		
	DK-162114	B	19910916		
	DK-162114	C	19920217		
4)	JP01220708	A	19890904	1989JP-0013887	19890123
	JP95101043	B	19951101		
	JP2065529	C	19960624		
5)	US5000001	A	19910319	1989US-0294657	19890109

Priority :

1988DE-3801829 19880122
 1988DE-3841507 19881209

1 / 5 PLUSPAT - @Questel

Patent Number :

CA1332690 C 19941025 [CA1332690]

Publication Stage :

(C) Patent

Title :

(C) CONTROL APPARATUS FOR A HYDRAULIC MOTOR

French Title :

(C) APPAREIL DE COMMANDE POUR MOTEUR HYDRAULIQUE

Patent Assignee :

(C) DANFOSS AS (DK)

Orig. Applicant/Assignee :

DANFOSS A/S (DK)

Inventor :

(C) CHRISTENSEN THORKILD (DK); NISSEN HARRY S (DK); CHRISTENSEN CARSTEN (DK); ZENKER SIEGFRIED (DE); THOMSEN SVEND E (DK)

Intl Patent Class :

(C) F15B-011/02

Language :

ENGLISH (ENG)

Application Nbr :

CA586836 19881222 [1988CA-0586836]

Priority Nbr :

DE3801829 19880122 [1988DE-3801829]

DE3841507 19881209 [1988DE-3841507]

IPC Advanced :

F15B-011/00 [2006-01 A F I R M JP]; F15B-011/05 [2006-01 A L I R M JP];

F15B-013/04 [2006-01 A - I R M EP]

IPC Core :

F15B-011/00 [2006 C F I R M JP]; F15B-013/00 [2006 C - I R M EP]

EPO ECLA Class :

F15B-013/04C2

Document Type :

Corresponding document

1 / 1 LEGALI - @EPO

.(abridged)

Citation Analysis

Questel offers three citation commands for selected databases:

- **CITF** performs a forward citation search for a set of records.
- **CITB** performs a backward citation search for a set of records.
- **FAMCITE** is a display command that creates a citation report for a patent family.

Using citations to expand a search result with precision

By using the citations included in patent publications, the **CITF** and **CITB** commands can help you find more patent results that are relevant to your search.

The **CITF** command retrieves subsequent patents that are citing the patents in your initial set. The new result set contains both the original patents and the citing patents. **CITF** can be used with a search set or a patent number as illustrated below :

```
Search statement 1
citf us5000000/pn
** SS 1: Results 23

Search statement 2
citf ss 1
** SS 2: Results 50
```

The **CITB** command works similarly. However, it retrieves the previously published patents cited by the patents in your initial set. The new set contains both the original patents and the cited patents. **CITB** can also be used with a search set or a patent number.

The correct search syntax is to enter the command followed by your search set number (maximum 1000 records) or patent number. Patent numbers can be publication (PN), application (AP) or priority numbers.

CITF SS n or **CITF <number>/<field>**

CITB SS n or **CITB <number>/<field>**

These two commands are available in the following databases :

- FamPat, International Patents
- PlusPat, International Patents
- EPPATENT, European Patents
- FRPATENT, French Patents
- WOPATENT, PCT Applications
- USPAT, U.S. Patents
- DEPAT, German Patents and Utility Models

When searching in Cluster mode, you may use these commands by entering the **FROM** parameter followed by the the name of one of the databases in the cluster.

CITF SS 1 FROM EPPATENT

There is no charge for use of the **CITF** and **CITB** commands.

```
Selected database: USPAT
```

```
Search statement 1
```

```
MCGREW/IN AND WRIGLEY/PA
```

```
** SS 1: Results 19
```

```
Search statement 2
```

```
CITF SS 1
```

```
** SS 2: Results 123
```

```
Search statement 3
```

```
PRT
```

```
1/123 USPAT - (C) USPTO
```

```
PN - US6379652 B1 20020430
```

```
TI - Oral compositions for reducing mouth odors
```

```
IN - Liu, Xiaoyan; Highland Park NJ [US]
```

```
- Williams, Malcolm; Piscataway NJ [US]
```

```
- Subramanyam, Ravi; Belle Mead NJ [US]
```

```
- Hughes, John; Cranbury NJ [US]
```

```
PA - Colgate Palmolive Company, New York NY [US]
```

```
PCL0- 424049000
```

```
PCLX- 424058000
```

```
IC - A61K-007/16 A61K-007/26
```

```
Search statement 3
```

```
CITB SS 1
```

```
** SS 3: Results 258
```

```
Search statement 4
```

```
PRT
```

```
1/258 USPAT - (C) USPTO
```

```
PN - US6264999 B1 20010724
```

```
TI - Chewing gum containing erythritol and method of making
```

```
IN - Yotka, Robert J.; Orland Park IL [US]
```

```
- Patel, Mansukh M.; Downers Grove IL [US]
```

```
- Tyrpin, Henry T.; Palos Heights IL [US]
```

```
- Broderick, Kevin B.; Berwyn IL [US]
```

```
PA - Wm. Wrigley Jr. Company, Chicago IL [US]
```

```
PCL0- 426003000
```

```
IC - A23G-003/30
```

The FAMCITE Command: Automatic display of citations

The **FAMCITE** command is available in the PlusPat and FamPat databases, which have citations for US, EP, WO, FR, DE, GB patents. After conducting a family search for a single patent family, you can display a complete citation report with the **FAMCITE** command. The report display is in three parts :

- ◆ The original source family
- ◆ The citing patent families (families with a patent citing a member of the source family)
- ◆ The cited patent families (families with a patent cited by a member of the source family)

The results in all three sections show complete families. These fields are included for each family in the citation report :

PN Number and date of publication of all members
TI English title of the first member
OTI Non-English title of the first member
PA Applicant of the first member
IN Inventor of the first member
AP Application numbers of all members
PR Priority numbers of all members
CT Citations of members EP, WO, US and FR
AB Summary of first member

You can also display clipped images by adding the parameter IMG. The complete command syntax is **FAMCITE IMG**.

The **FAMCITE** command can not be used with the **LEGAL** or **FULLTEXT** display options.

The **FAMCITE** command has a flat rate charge. All records displayed are included in the flat rate charge, except for the optional image displays which are charged at the normal rate.

Selected file: PLUSPAT

```
Search statement 2
fam us6000001/pn
```

```
1 Patent Groups
** SS 2: Results 1
```

```
Search statement 3
famcite
```

```
<< Citation Report >>
```

```
<< Source Patent Family >>
```

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
 PN - US6000001 A 19991207 [US6000001]
 TI - (A) Multiple priority accelerated graphics port (AGP) request queue
 PA - (A) MICRON ELECTRONICS INC (US)
 PA0 - Micron Electronics, Inc., Nampa ID [US]
 IN - (A) LARSON DOUGLAS A (US)
 AP - 1997US-0924755 19970905
 PR - 1997US-0924755 19970905
 CT - (US6000001)
 US5557744; US5649157; US5832304; US5857086
 - "Accelerated Graphics Port Interface Specification," Intel Corporation, 1996, pp. 1-151.
 AB - (US6000001)
 A single queuing structure enqueues requests of multiple priorities. The queuing structure is especially well adapted for use with requests that are part of AGP operations. For instance, the queuing structure may enqueue low priority read/flush requests, high priority read/flush requests, low priority write requests, and high priority write requests. The queuing structure may be logically partitioned into logical sub-queues where each sub-queue is associated with requests of a given type and a given priority. Each of the logical sub-queues may be configured to operate in a first-in-first-out (FIFO) fashion. Separate pointers may be maintained for identifying the bottom of each of the logical sub-queues within the single queuing structure.

<< Citing Patents: Subsequent Patents Citing Source Family >>

1/7 PLUSPAT - (C) QUESTEL-ORBIT- image
 PN - US2003095126 A1 20030522 [US20030095126]
 - US6891545 B2 20050510 [US6891545]
 - AU2002348844 A1 20030610 [AU2002348844]
 - AU2003250419 A1 20040225 [AU2003250419]
 - CN1589439 A 20050302 [CN1589439]
 - CN1675680 A 20050928 [CN1675680]
 - EP1449096 A1 20040825 [EP1449096]
 - EP1529278 A1 20050511 [EP1529278]
 - JP2005509922 T 20050414 [JP2005509922]
 - JP2005535956 T 20051124 [JP2005535956]
 - US2003095447 A1 20030522 [US20030095447]
 - WO03044677 A1 20030530 [WO200344677]
 - WO2004015680 A1 20040219 [WO200415680]
 TI - (A1) Color burst queue for a shared memory controller in a color sequential display system
 OTI - (A1) CONTROLLER FÜR EINEN GEMEINSAMEN SPEICHER EINES GRAPHIKPROZESSORS
 - (A1) CONTROLEUR DE MEMOIRE PARTAGEE POUR UNITE DE TRAITEMENT D'AFFICHAGE
 PA - (A1) KONINKL PHILIPS ELECTRONICS NV (US)
 PA0 - Koninklijke Philips Electronics N.V., Eindhoven [NL]
 IN - (A1) DEAN JOHN E (US)
 AP - 2002WO-IB04894 20021120; 2002CN-0822886 20021120; 2003JP-0546247 20021120; 2002AU-0348844 20021120; 2002EP-0781575 20021120; 2002US-0215067 20020808; 2002US-0214930 20020808; 2004JP-0527186 20030731; 2003CN-0819107 20030731; 2003EP-0784374 20030731; 2003AU-0250419 20030731; 2003WO-IB03396 20030731
 PR - 2001US-P331916 20011120; 2002US-0214930 20020808; 2002US-0215067 20020808; 2002WO-IB04894 20021120; 2003WO-IB03396 20030731
 CT - (US20030095126)
 Cited; US4914508; US6072545; US6396596; US6430180; US20030169755
 CT - (EP1449096)
 Cited in the search report
 - See references of WO 03044677A1
 CT - (EP1529278)
 Cited in the search report
 - See references of WO 2004015680A1
 CT - (WO200344677)
 Cited in the search report
 - US5948081(A)(Cat. Y);US5598575(A)(Cat. Y);US6000001(A)(Cat. A)
 CT - (WO200415680)
 Cited in the search report
 - US5909225(A)(Cat. X);WO9739437(A)(Cat. Y);US2003095126(A1)(Cat.

X,P);WO0000893(A)(Cat. A);US4811205(A)(Cat. A);US5852451(A)(Cat. A)

- KHARE A ET AL: "HIGH-LEVEL SYNTHESIS WITH SDRAMs AND RAMBUS DRAMS" IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS, COMMUNICATIONS AND COMPUTER SCIENCES, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E82-A, no. 11, November 1999 (1999-11), pages 2347-2355, XP000885102 ISSN: 0916-8508(Cat. Y)
- GLEERUP T ET AL: "MEMORY ARCHITECTURE OF EFFICIENT UTILIZATION OF SDRAM: A CASE STUDY OF THE COMPUTATION/MEMORY ACCESS TRADE-OFF" PROCEEDINGS OF THE 8TH. INTERNATIONAL WORKSHOP ON HARDWARE/SOFTWARE CODESIGN. CODES 2000. SAN DIEGO, CA, MAY 3 - 5, 2000, PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON HARDWARE/SOFTWARE CODESIGN, NEW YORK, NY: ACM, US, 3 May 2000 (2000-05-03), pages 51-55, XP000966198 ISBN: 1-58113-214-X(Cat. Y)

AB - (US20030095126)

A system and method for managing memory in display processing circuit for use with a color sequential display. The system comprises: a shared memory; and a storage queue coupled to the shared memory, wherein the storage queue includes: a system for receiving and storing alternating packets of color-specific video data in the storage queue; and a system for separately reading contiguous sets color-specific packets from the storage queue to the shared memory.

2/7 PLUSPAT - (C) QUESTEL-ORBIT- image

PN - US6314478 B1 20011106 [US6314478]

TI - (B1) System for accessing a space appended to a circular queue after traversing an end of the queue and upon completion copying data back to the queue

PA - (B1) NEC AMERICA INC (US)

PAO - NEC America, Inc., Melville NY [US]

IN - (B1) ETCHEVERRY WILLIAM R (US)

AP - 1998US-0222378 19981229

PR - 1998US-0222378 19981229

CT - (US6314478)

US5235676; US5446839; US5450544; US5515082; US5519701; US5584038; US5623608; US5623621; US5689693; US5694125; US5699530; US5832307; US5845092; US5870627; US5873089; US5968107; US6000001; US6044419; US6044434; US6112266; GB2350533 A

AB - (US6314478)

A circular queue system is implemented using either a `mirror space` appended to the circular portion of the queue (or buffer) or an `borrow` space appended to the circular portion of the queue (or buffer). In each implementation, address verification or checking within the queue is not implemented until such time as the read or write portion to the queue has substantially completed. Where the address would normally exceed the physical or logical end address of the circular queue, the `mirror space` or `borrow` space provides sufficient storage to prevent overflow into other valid data. Upon substantial completion of the read or write to the queue (or buffer), the present address of the pointer is determined, and where the circular portion of the queue (or buffer) has been traversed, the data in the `mirror space` is copied into the circular queue (or buffer) and the pointer's address is repositioned to be within the circular queue (or buffer), or for a `borrow` space, the pointer's address is reset to the queue's (or buffer's) physical or logical start address.

.(display abbreviated)

<< Cited Patents: Previous Patents Cited by Source Family >>

1/4 PLUSPAT - (C) QUESTEL-ORBIT- image

PN - US5857086 A 19990105 [US5857086]

- EP0878764 A2 19981118 [EP-878764]
- EP0878764 A3 19991027 [EP-878764]
- JP11073386 A 19990316 [JP11073386]

TI - (A) Apparatus method and system for peripheral component interconnect bus using accelerated graphics port logic circuits

OTI - (A2) Rekonfigurierbare Busbrücke

- (A2) Passerelle de bus reconfigurable

PA - (A) COMPAQ COMPUTER CORP (US)

PAO - Compaq Computer Corporation, Houston TX [US]

IN - (A) OLARIG SOMPONG PAUL (US); HORAN RONALD TIMOTHY (US)

AP - 1997US-0855401 19970513; 1998EP-0303692 19980512; 1998JP-0130524
19980513

PR - 1997US-0855401 19970513

CT - (US5857086)
US5682484; US5740387; US5748921; US5754801

CT - (EP-878764)
Cited in the search report
- EP859320(A1)(Cat. E);W09534065(A2)(Cat. Y);US4534011(A)(Cat.
Y);US5506973(A)(Cat. A)

AB - (US5857086)
A multiple use core logic chip set is provided in a computer system
that may be configured either as a bridge between an accelerated
graphics port ("AGP") bus and host and memory buses, as a bridge
between a 32 bit additional peripheral component interconnect ("PCI")
bus and the host and memory buses, or as a bridge between a primary
PCI bus and an additional PCI bus. The function of the multiple use
chip set is determined at the time of manufacture of the computer
system or in the field whether an AGP bus bridge or an additional 32
bit PCI bus bridge is to be implemented. The multiple use core logic
chip set has an arbiter having Request ("REQ") and Grant ("GNT")
signal lines for each PCI device utilized on the additional 32 bit PCI
bus. Selection of the type of bus bridge (AGP or PCI) in the multiple
use core logic chip set may be made by a hardware signal input,
software during computer system configuration or power on self test
("POST"). Software configuration may also be determined upon detection
of a PCI device connected to the common bus.

2/4 PLUSPAT - (C) QUESTEL-ORBIT- image

PN - US5832304 A 19981103 [US5832304]

TI - (A) Memory queue with adjustable priority and conflict detection

PA - (A) UNISYS CORP (US)

PA0 - Unisys Corporation, Blue Bell PA [US]

IN - (A) BAUMAN MITCHELL A (US); CARLIN JEROME G (US); GILBERTSON ROGER L
(US)

AP - 1995US-0404791 19950315

PR - 1995US-0404791 19950315

CT - (US5832304)
US4400771; US4598362; US4707781; US4736362; US5088053; US5140682;
US5165021; US5193193; US5214769; US5218688; US5235688; US5241632;
US5282271; US5317720; US5432923; US5530835

AB - (US5832304)
An improved memory request storage and allocation system using
parallel queues to retain different categories of memory requests
until they can be acted on by the main memory. Memory requests in the
parallel queues are allowed to access the main memory according to a
queue priority scheme. The queue priority scheme is based on an
adjustable ratio, which determines the rate at which memory requests
from one queue are allowed to access the main memory versus memory
requests from other queues. Registers for bypassing the adjustable
ratio eliminate delays by prohibiting the queue priority circuitry
from attempting to retrieve a non-existent memory request from a
queue. Conflict detection circuitry maintains proper instruction order
in the parallel queue architecture by ensuring that subsequent memory
requests, which have the same address as a memory request already in
the queue, are placed in the same queue in the order that they were
entered into the queue.

.
.
.
(display abbreviated)

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 epbpact pctfull 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 japio 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

```
++ 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 1-76

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

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++ Patent Group - GR 1 ++

1/76 DWPI - (C) Thomson Reuters- image
AN - 2000-055874 [05]
XP - N2000-043670
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    - (CITR) AUTOMOBILES PEUGEOT SA
IN - AMAR O
PN - FR2778158                A1 19991105 DW2000-05
B60R-021/02 Fre 7p *
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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

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++ 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
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Notes

