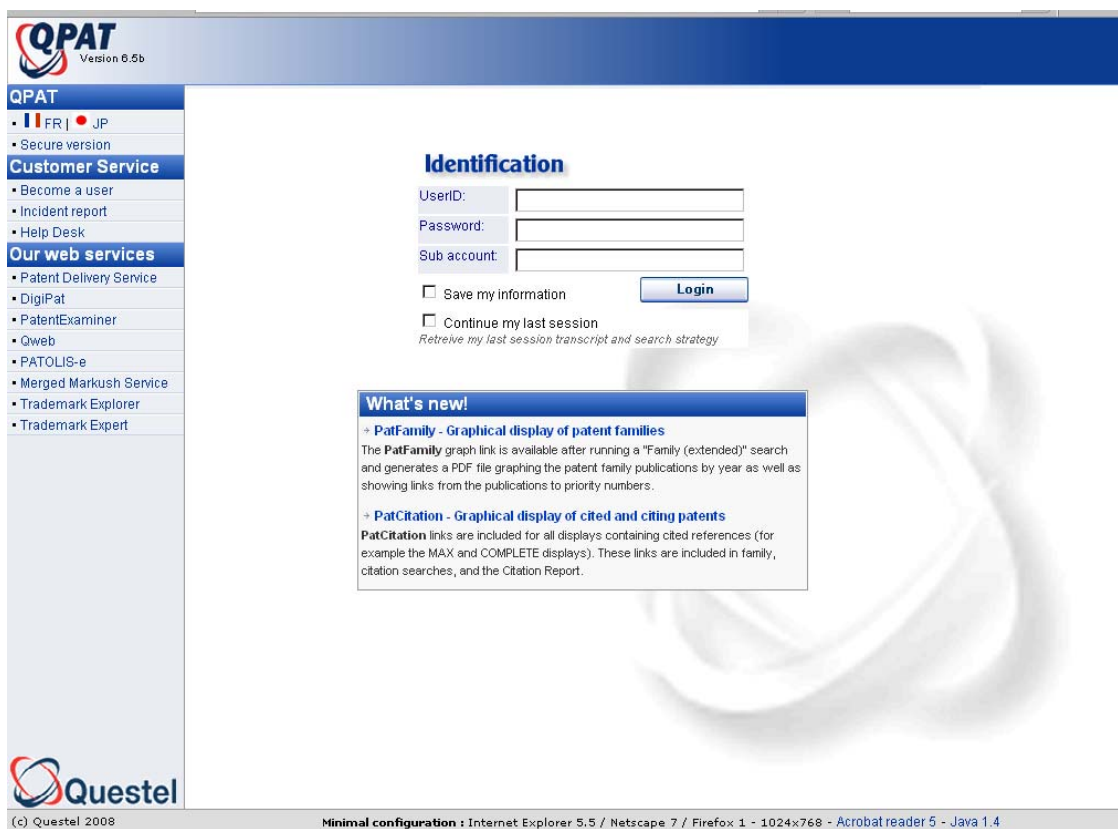


QPAT V6 USER GUIDE



The screenshot displays the QPAT V6 web application interface. At the top left, the QPAT logo and version number (6.5b) are shown. A navigation menu on the left includes links for 'Customer Service' (Become a user, Incident report, Help Desk) and 'Our web services' (Patent Delivery Service, DigiPat, Patent Examiner, Qweb, PATOLIS-e, Merged Markush Service, Trademark Explorer, Trademark Expert). The main content area features an 'Identification' section with input fields for 'UserID', 'Password', and 'Sub account', a 'Login' button, and checkboxes for 'Save my information' and 'Continue my last session'. Below this is a 'What's new!' section with two items: 'PatFamily - Graphical display of patent families' and 'PatCitation - Graphical display of cited and citing patents'. The footer contains the Questel logo, copyright information (c) Questel 2008, and a list of minimal configurations (Internet Explorer 5.5, Netscape 7, Firefox 1, 1024x768 resolution, Acrobat reader 5, Java 1.4).

QPAT
Version 6.5b

Customer Service

- [FR](#) | [JP](#)
- [Secure version](#)

Our web services

- [Patent Delivery Service](#)
- [DigiPat](#)
- [Patent Examiner](#)
- [Qweb](#)
- [PATOLIS-e](#)
- [Merged Markush Service](#)
- [Trademark Explorer](#)
- [Trademark Expert](#)

Identification

UserID:

Password:

Sub account:

☐ Save my information

☐ Continue my last session

[Login](#)

Retrieve my last session transcript and search strategy

What's new!

→ **PatFamily - Graphical display of patent families**

The **PatFamily** graph link is available after running a "Family (extended)" search and generates a PDF file graphing the patent family publications by year as well as showing links from the publications to priority numbers.

→ **PatCitation - Graphical display of cited and citing patents**

PatCitation links are included for all displays containing cited references (for example the MAX and COMPLETE displays). These links are included in family, citation searches, and the Citation Report.

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Minimal configuration : Internet Explorer 5.5 / Netscape 7 / Firefox 1 - 1024x768 - Acrobat reader 5 - Java 1.4

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Section I: General Overview

Areas of Patent Coverage

FamPat: Worldwide Patent Families

Family records - Family members claiming the same priority

- **Coverage:** Comprehensive family coverage of worldwide patent publications issued by more than 75 patent authorities. Bibliographic coverage for the US and the greater part of Europe begins in the 1800's.
- **Abstract Coverage:** From the 1970's
- **Full text summaries of EP, PCT, and US patents.** The summaries contain: Objective (OBJ), Advantages and Previous Drawbacks (ADB), and Independent Claims (ICLM) and are currently available as follows:
- EP Published Applications 1980 to date
- PCT Published Applications Mid 2001 to date
- US Granted Patents 1971 to 2000
- US Published Applications

PlusPat: Worldwide Patents

Individual records for each Country or Patent Office

- **Coverage:** Comprehensive coverage of worldwide patent publications issued by more than 80 patent authorities. Bibliographic coverage for the US and most of Europe starts in the early 1920's.
- **Abstract Coverage:** From the 1970's
- **Language:** English with 2% in French

European Patents

- **Coverage:** From 1980 to the present
- **Full-text Coverage:** 100%
- **Language:** English (65%), German (25%), French (10%)

European Published Applications

- **Coverage:** From 1978 to the present
- **Full-text Coverage:** 100%.
- **Language:** English (65%), German (25%), French (10%)

French Published Applications & Patents

- **Coverage:** From 1966 to the present
- Special Medicine Patents from 1961 to the present
- **Abstract Coverage:** Since 1978
- **Language:** French

French Full-text Published Applications

- **Coverage:** From 1980 to the present
- **Full-text Coverage:** 100%
- **Language:** French

Areas of Patent Coverage (cont'd):

German Full-Text Patents

- **Coverage:** From January 1987 to the present
- **Full-text Coverage:** 100%
- **Language:** German

German Full-Text Utility Models

- **Coverage:** From January 2004 to the present
- **Full-text Coverage:** 100%
- **Language:** German

German Full-Text Applications

- **Coverage:** From January 1987 to the present
- **Full-text Coverage:** 100%
- **Language:** German

PCT Full-Text Published Applications:

- **Coverage:** From October 19, 1978 to the present
- **Abstract Coverage:** 100%
- **Full-text Coverage:** Full-text records are available for applications in English (73% of records in database), German (14%), French (4%), and Spanish (< 1%).
- **Language:** English and French Titles and Abstracts

U.S. Full-Text Patents

- **Coverage:** From January 5, 1971 to the present
- **Full-text Coverage:** 100%
- **Language:** English

U.S. Full-Text Published Applications

- **Coverage:** From March 15, 2001 to the present
- **Full-text Coverage:** 100%
- **Language:** English

GB Full-Text Published Applications

- **Coverage:** From 1979 to the present
- **Full-Text Coverage:** 100%
- **Language:** English

More detailed coverage information is located on the help menu of QPAT under Coverage and Information

User Settings

From the QPAT User Settings toolbar, click on User Settings. A separate window will open and you may customize aspects of your QPAT sessions.

http://www.qpat.com - Questel QPAT - Microsoft Internet Explorer

My preferences

General

Preferred assist: Advanced

Sub account: Optional

Coverage

Default to: FamPat - Worldwide patents

Collection list: Show

Display

Family representative: ☐ Earliest publication ☒ Most recent publication

Publication Number: Preferred country: US EPA WO US FRA DEA GBA EP DE GB [set to default](#)

Hit-list: Folded

Field format: Detailed

Click on image: Mosaic

PDF: On the fly

Links: ☒ Links to original documents in exports and alerts

E-mail

Address: jhigginbotham@questel.orbit.com

Preferred format: text With link

OK Cancel

General

Preferred Assist: Select Advanced, Express, Extended Family or Citation or Similarity Search as your default screen.

Subaccount: When logging in to QPAT, you may elect to make entering a subaccount a mandatory requirement of the logon process.

Coverage

Default: Select FamPat (family records) or PlusPat (individual authority records) as your default database.

Collection List: Option to display all files available with your QPAT subscription in the Advanced Search Assist.

Display

Family Representative: For FamPat (family records) hit list display. Select, as your default display, the option to have the first publication (oldest) or the most recent publication appear in your hit list.

Publication Number: The Patent authority publication number 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 displaying 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, and so on. You may elect to change the default to your country of preference. To do so enter the two letter country code, e.g. US, at the beginning of the list

Field Format: Display full field names (long) or field tag abbreviations (short)

Click on Image: "ZOOM" enlarges the clipped image; "MOSAIC" displays a mosaic of all the drawings.

PDF: "ON THE FLY" opens the document in Adobe Acrobat when you click on the icon; "PORTFOLIO" adds the document to your PDS portfolio for later viewing.

Links: Adds links to the original documents in exports and alerts.

Email

Address: Store a permanent email address

Preferred format: For emailed exports from QPAT, you may select Text or HTML, as a link or as an attachment.

Search Menus

Express Search

The **Express Search** allows for basic searches. Natural language searching is supported. For text searches, in up to four fields, QPAT requires all keywords entered to be present in the resulting records, i.e., the terms are ANDed together. Automated Multilingual Queries as well as Keyword Highlighting are also available.

QPAT Version 6.5b

Search

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- My saved searches
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Express Search

Multilingual search

Search in: Collapsible keyboard for a computer

with query typed in: English

Assignee: e.g.: Siemens

Inventor: Last name first name

Publication number: e.g.: EP0980063

Search

Clear

Help

Questel

Advanced Search

The **Advanced Search** allows the construction of text searches using a full range of search operators and logical nesting. The user has complete control over which operators are used. Multiple fields may be combined, multiple databases may be searched. Automated Multilingual Queries as well as Keyword Highlighting are also available. To view a complete list of collections available in QPAT, check the Collection list box. Clicking ALL will automatically select all of the full-text files and French published applications; or you can select any combination of collections by checking the boxes next to the file names.

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Advanced Search

Search in: e.g.: Telecom+ OR phone

Classification: and IPC e.g.: G10L-015

Assignee: e.g.: Siemens

Inventor: Last name first name

Publication number: e.g.: EP0980063

Publication country: e.g.: US OR EP

Date: No restriction

Limit to recent publication: No restriction

Use command line: e.g.: (wire+ WI pho??)AB

Collection list:

Select All | None

	Worldwide patents <i>FamPat</i>
Full text	
US	<input type="checkbox"/> from 2001 <input type="checkbox"/> from 1971
EP	<input type="checkbox"/> from 1978 <input type="checkbox"/> from 1980
PCT	<input type="checkbox"/> from 1978
France	<input type="checkbox"/> from 1980 <i>In French</i>
Germany	<input type="checkbox"/> from 1987 <i>In German</i> <input type="checkbox"/> Patent from 1987 <i>In German</i> <input type="checkbox"/> Utility models from 2004 <i>In German</i>
United Kingdom	<input type="checkbox"/> from 1979
First page	
Published applications or granted patents	
France	<input type="checkbox"/> from 1966 <i>In French</i>

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Extended Family Search

You may search QPAT to find extended (Inpadoc) families by entering the publication, application, or priority number. Application and priority numbers may also be searched simultaneously. Only one number can be searched at a time. **See Section VII for more information about the Patent Family Search.**

QPAT
Version 6.5b

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Extended Family Search
Search extended (Inpadoc) families

Publication number: ?

Application number: ☐ Include Legal Status ?

Priority number: ☐ Include Legal Status, Abstracts and Citations ?

Application or priority:

Collection: Worldwide patents *FamPat* ?

Search
Clear
Help

Questel

Citation Search

A citation search allows a specific subject search of the technology closely related to a published patent. The backward citation search will retrieve the prior art that is cited in the patent. The forward citation search will retrieve all the subsequently published patents that cite the patent. Only one number can be searched at a time. **See Section VIII for more information about the Citation Search.**

QPAT
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Patent Citation Search
Search patent cited references

Publication number: ?

Application number: ☒ Backward

Priority number: ☒ Forward

Application or priority:

☒ Include original patent in result

☐ Display family citation and optional PatCitation report

Collection: Worldwide patents *FamPat* ?

Search
Clear
Help

Questel

Similarity Search

A similarity search will use the European Classification (ECLA) codes assigned to a patent to automatically search for patents with those classifications. If the patent does not have a European Classification code assigned to it, then the International Patent Classification (IPC) will be used to conduct the search.

See section V for more information about the Similarity Search.

QPAT Version 6.5b

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Similarity Search

Find patents similar to a known patent

Publication number:

Application number:

Priority number:

Application or priority:

☐ US Patents: PC/ECLA Correspondence

No country exclusion

Search

Clear

Help

Collection: Worldwide patents *FamPat*

Session History & Search Statement Combination

The **Session History** button displays a history of your session search results. You may edit, view, erase, save, or combine previous search results to create new searches. Choose the search statements you want to include in your new search in the COMBINE STRATEGIES box and click OK. The new combined search statements are then searched. Boolean operators AND, OR and NOT may be used. Please note: Parentheses (nesting) is required when combining different operators. You may also, for individual search statements, show results, edit the query, erase the statement entirely, and save individual set numbers. The Keep option allows you to keep ONE search statement, while deleting all the other statements from the session. You will be prompted to confirm this choice.

QPAT Version 6.5b

Printer friendly

Search history

Manage your current session and combine strategies

Combine strategies: E.g.: (1 or 2) not 3

N°	Answer(s)	Query	Assist	Action
3	622	((COLLAPS+ OR FOLD+ OR FLIP+) 3D (KEYBOARD OR KEY BOARD))	Patents	Show results Edit Erase Keep Save
2	54140	((PERSONAL OR PORTABLE) 3D (PC OR COMPUTER))	Patents	Show results Edit Erase Keep Save
1	7425	(LAPTOP OR LAP TOP)	Patents	Show results Edit Erase Keep Save

[Erase all](#) | [Save entire strategy](#)

Saved Sessions:

The Saved Sessions feature in QPAT will automatically save QPAT sessions thirty days. You may view, edit, rename or delete previous sessions.

QPAT Version 6.5b Logoff

Search

- Express
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My saved sessions

Sessions are automatically recorded and freely kept one month. Use this page to manage them.

Show: All Starred	Collapse: All None	
Date	Session	Action
Today (2)		
05:12 PM	(THERMAL?)TIOTI AND (TRANSFER???)BI AND (SHEET?)	view rename delete
03:16 PM		view rename delete
Yesterday (1)		
01:55 PM	(MXP01003238)PNXPN	view rename delete
Wednesday (2)		
05:42 PM	((US20080034712) OR (WO200818605) OR (GB2440836) O	view rename delete
01:28 PM	(JP)PN	view rename delete
Last week (5)		
Wednesday 02:42 PM	(LAPTOP OR LAP TOP)	view rename delete
Wednesday 02:41 PM	(LAPTOP OR LAP TOP)	view rename delete
Wednesday 01:53 PM	(US4627192)PNXPN	view rename delete
Tuesday 04:33 PM	(JP)PN AND PD=2007-01-01:2007-12-31	view rename delete
Tuesday 04:25 PM	(WATER SAFETY)	view rename delete
Three weeks (2)		
Wednesday Mar. 12, 2008 05:20 PM	(USD508268)PNXPN	view rename delete
Tuesday Mar. 11, 2008 07:40 PM	(WATER SAFETY)	view rename delete
Older than three weeks (1)		
Friday Mar. 7, 2008 02:29 PM	(DWDWM)	view rename delete

Questel 13 session(s) stored

Saved Searches:

After conducting a search using the Express or Advanced Search Menus, from the hit list display you may save your search strategy. You may run, edit, or delete your saved searches.

QPAT Version 6.5b Logoff

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My saved searches

Manage your saved searches

Name	Query	Assist	Action
TOPFILM	(THERMAL?)TIOTI AND (TRANSFER???)BI AND (SHEET???) OR TOPFILM? OR TOPFILM?/BIICLM AND (COLO?R#WNT+)	Patents	Run Edit Delete

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Section II: Basic Searching

Natural Language Searching

Using the **Express Search Menu** in QPAT allows the novice searcher to use natural language to search a concept or technology. Once you begin entering your keywords, the text box will automatically expand, and additional text boxes, up to four will display. QPAT is not case sensitive. When combining fields, e.g., the title and abstract field, the claims field, the patent assignee field, QPAT will connect these fields with the operator **AND**.

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Express Search

Multilingual search

Search in: All text with query typed in: English

Collapsible keyboard for a computer

Search

Clear

Help

Assignee: e.g.: Siemens

Inventor: Last name first name

Publication number: e.g.: EP0980063

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Multi language search terms are automatically generated, search operators introduced, and searched:

QPAT Version 6.5b

Display: Printer friendly | Export | Order copy | Add to a workflow | Highlight | Save search | Create an alert | Analyze

Search: (((COLLAPSIBLE OR FOLDABLE OR SECTIONAL OR COLLAPSABLE OR DEPLIABLE? OR REPLIABLE? OR DEMONTABLE? OR PLIANT?? OR RABATTABLE? OR SECTIONNEL???) AND (KEYBOARD OR KEYBOARDS OR MANUAL?? OR TASTATUR?? OR KLAVIATUR?? OR CLAVIER?) AND (COMPUTER OR COMPUTERS OR COMPUTER? OR RECHNER? OR ELEKTROENRECHNER? OR (DATA PROCESSOR) OR (ELECTRONIC COMPUTER) OR (INFORMATION PROCESSING SYSTEM) OR ORDINATEUR??)))

Records: 1-200 of 673

Page: 1 2 3 4 Next >>

Show: 200 records per page

Select: All | Page | Stared | Not starred | Viewed | Not viewed | None

				COLQUHOUN ROBIN STUART STANWELL CONSULTING LTD	
<input type="checkbox"/>	183	US2004229663	20041118	MOBILE TELECOMMUNICATION DEVICE WITH TACTILE KEYBOARD	LEE ERIC SIERRA WIRELESS INC TOSEY JOSEPH PETER ROBERT
<input type="checkbox"/>	184	WO2004100096	20041118	HANDHELD PROGRAMMABLE SIGN WITH FOLDING SCREENS	MUNYON TIMOTHY A
<input type="checkbox"/>	185	US2005057891	20050317	Portable computing device with foldable keyboard	HEWLETT PACKARD DEVELOPMENT CO
<input type="checkbox"/>	186	US2004224467	20041111	CAPACITOR CONSTRUCTIONS, AND THEIR METHODS OF FORMING	MICRON TECHNOLOGY INC
<input type="checkbox"/>	187	US2004211343	20041028	Cleanview computer workstation	
<input type="checkbox"/>	188	WO2004090694	20041021	ELECTRONIC DEVICE	LYSENKO VICTOR GRIGORIEVICH
<input type="checkbox"/>	189	US2004204652	20041014	System for marking the locations of imaged tissue with respect to the surface of the tissue	
<input type="checkbox"/>	190	WO2004088487	20041014	MULTIFUNCTIONAL NOTEBOOK	SCHWEIZER JOACHIM
<input type="checkbox"/>	191	DE10314554	20041014	Multifunctional notebook or laptop computer having other functions in addition to the usual computer function with a controller for rotating a main monitor screen by 180 degrees	SCHWEIZER JOACHIM
<input type="checkbox"/>	192	WO2004086732	20041007	COMBINATORIAL MOBILE PHONES	TAVANA MOHAMMAD-SADEGH
<input type="checkbox"/>	193	WO2005099516	20051027	WORKSTATIONS	FOERS JAMES EDWARD HOLT SHAUN INTEGRADSK LTD
<input type="checkbox"/>	194	WO2005039016	20050428	ELECTRIC INSTALLATION	NORLEN LEIF
<input type="checkbox"/>	195	CN1480860	20040310	Tabulate computer	DING FANGQI
<input type="checkbox"/>	196	US2006152484	20060713	INPUT DEVICE FOR PORTABLE DIGITAL COMPUTERS AND PORTABLE DIGITAL COMPUTER WITH A MULTI-	BORGWARD GLENN ROLUS BRANDS & PRODUCTS IPR

Questel

Keyword Searching

Using the **Advanced Search Menu**, keyword searching gives greater flexibility to use all Questel operators, forms of truncation and nesting in conjunction with keywords. QPAT is not case sensitive. Once you begin entering your keywords, the text box will automatically expand, and additional text boxes, up to four, will display. In the **Advanced Search Menu**, when combining fields, e.g., the title and abstract field, the claims field, the patent assignee field, QPAT will connect these fields with the operator **AND**.

When choosing a database to search for keywords, remember a full-text file (German Patents, German Published Applications, German Utility Models, Great Britain Published Applications, European Patents, European Published Applications, French Published Applications, PCT Published Applications, U.S. Patents, and U.S. Published Applications) will produce more results than a bibliographic file (FamPat, PlusPat & French publications).

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Advanced Search

Search in: computer pda laptop pc

Search: [All text] [All text] [All text] [All text]

Classification: [and] [IPC] [e.g.: G10L-015]

Assignee: [e.g.: Siemens]

Inventor: [Last name first name]

Publication number: [e.g.: EP0980063]

Publication country: [e.g.: US OR EP]

Date: [No restriction]

Limit to recent publication: [No restriction]

☐ Use command line: [e.g.: (wire+ W pho??)AB]

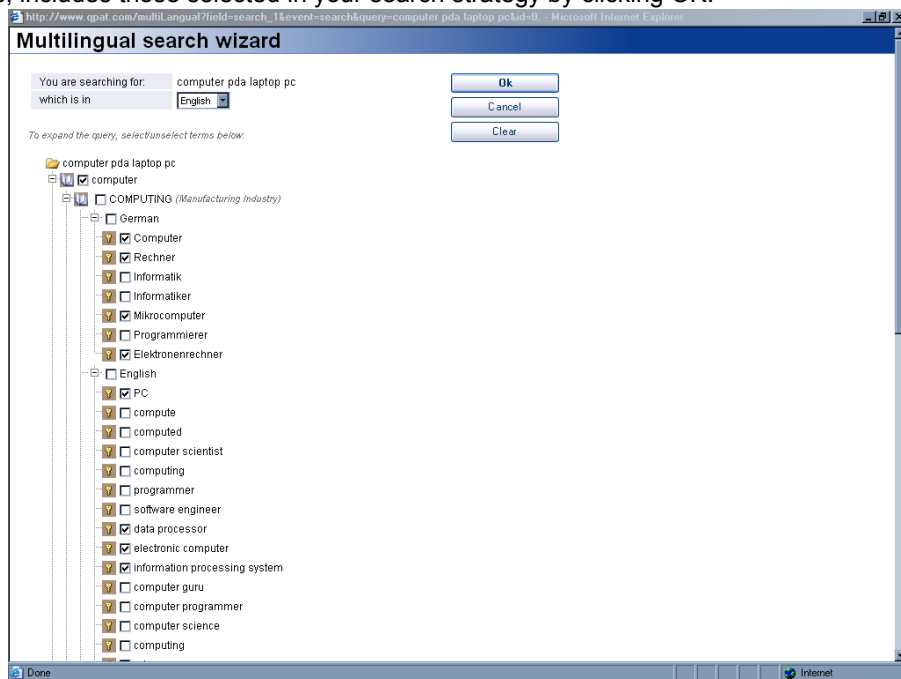
☒ Collection list

	Worldwide patents <i>FamPat</i>												
	<table border="1"><thead><tr><th>Full text</th><th>Published applications</th><th>Granted</th></tr></thead><tbody><tr><td>US</td><td><input type="checkbox"/> from 2001</td><td><input type="checkbox"/> from 1971</td></tr><tr><td>EP</td><td><input type="checkbox"/> from 1978</td><td><input type="checkbox"/> from 1980</td></tr><tr><td>PCT</td><td><input type="checkbox"/> from 1978</td><td></td></tr></tbody></table>	Full text	Published applications	Granted	US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971	EP	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1980	PCT	<input type="checkbox"/> from 1978	
Full text	Published applications	Granted											
US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971											
EP	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1980											
PCT	<input type="checkbox"/> from 1978												

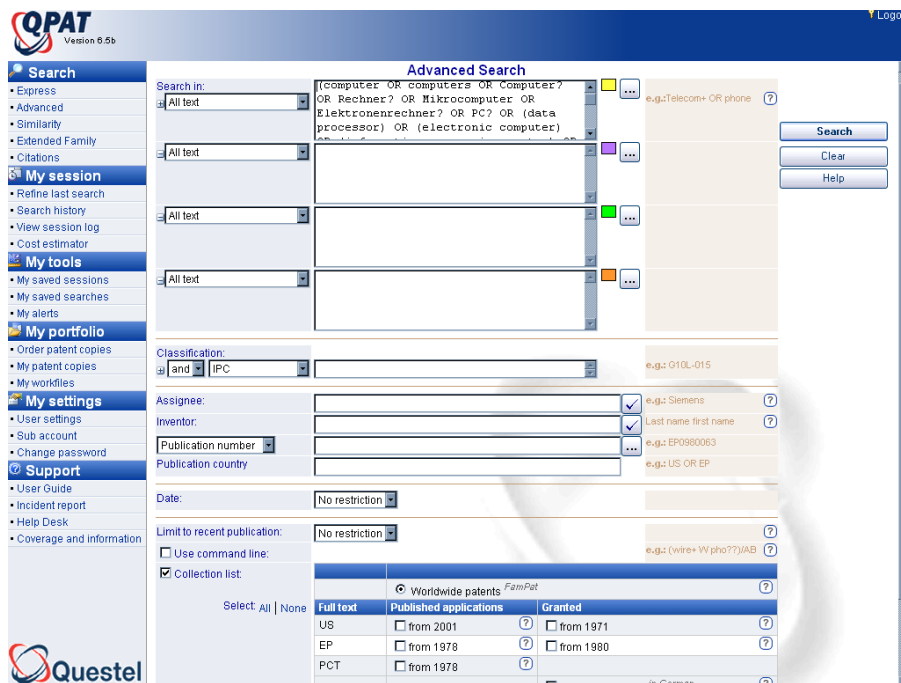
Multilingual Search Wizard



Enter the keywords in the text boxes, without Boolean or proximity operators, truncation or nesting. Click the icon opposite the text boxes, which opens the Multilingual Search Wizard. Suggestions for keyword synonyms in French, English and German will display for your review. Clicking the boxes next to the keywords, includes those selected in your search strategy by clicking OK.



QPAT automatically includes Boolean search operators and suggested truncation symbols. If you wish, you may modify the query.



You may select the database or multiple databases to search by clicking the box(es) next to the desired database(s).

In the **Advanced Search Menu**, when combining fields, e.g., the title and abstract field, the claims field, the patent assignee field, QPAT will connect these fields with the operator **AND**.

Note: a SPACE between keywords treats them as ADJACENT. (Implied proximity or W operator)

Example: **top film** retrieves records where *top film* appears as a phrase.

After the text has been input, the fields for search selected and the database selection has been confirmed, click the "Search" button.

QPAT
Version 6.5b

Search

- Express
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My session

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Advanced Search

Search in:

☐ Title ☐ Title, Abstract ☐ Title, Abstract, Indep. clms ☐ All text

Classification:

Assignee:

Inventor:

Publication number:

Publication country:

Date:

Limit to recent publication:

☐ Use command line:

☒ Collection list:

Select: ☐ All ☐ None

	Full text	Published applications	Granted
US	<input type="checkbox"/> from 2001 <input <="" td="" type="button" value="?"/> <td><input type="checkbox"/> from 1971 <input <="" td="" type="button" value="?"/> </td>	<input type="checkbox"/> from 1971 <input <="" td="" type="button" value="?"/>	
EP	<input type="checkbox"/> from 1978 <input <="" td="" type="button" value="?"/> <td><input type="checkbox"/> from 1980 <input <="" td="" type="button" value="?"/> </td>	<input type="checkbox"/> from 1980 <input <="" td="" type="button" value="?"/>	
PCT	<input type="checkbox"/> from 1978 <input <="" td="" type="button" value="?"/> <td></td>		

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Truncation

Truncation is a set of symbols that replace as little as one letter or part of a word. These symbols give QPAT the ability to search for variations of a word. All truncation symbols can be used at the beginning of words, the endings, or be embedded. Word stems must be at least three characters long. The same or different truncations may be used simultaneously within a word.

+	unlimited truncation	bicycl+ +inflammat+
?	zero or one character truncation	bicycle? alumin?um
#	exactly one character truncation	polymeri#ation

Boolean and Proximity (Distance) Operators

Operators for Text Searching

OR	retrieves records with at least one of the terms	sulfur or sulphur
AND	all of the terms	plutonium and isotope
NOT	the first term but NOT the second	suv not vesicle
F	terms in the same field	sodium f chlorine
P	terms in the same paragraph	sodium p chlorine
D	adjacent terms in any order	redundancy d check+
nD	adjacent terms in any order, separated by up to n words, where n is 1 to 9	electric+ 2d conduct+ 2d adhesive
W	adjacent terms in specified order; this is the default processing for two terms without an operator	smart w card? smart card?
nW	adjacent terms in specified order, separated by up to n words, where n is 1 to 9	friction 1w pad?
S	terms in the same sentence (or in same subfield – see inventor name)	selfclean+ s toilet?
Parens	parentheses (nesting) required when combining different operators	((wireless w application w protocol) or wap) (hair 1d (dye or dyeing)) and oxidat+

Formatting Classification Codes for QPAT Searching

You may unfold up to four search boxes on the Express or Advanced Search Interfaces. When combining fields, e.g., the title and abstract field, the claims field, the patent assignee field, QPAT will connect these fields with the operator **AND**. The exception to this is classifications. You may elect to use the **OR** operator.

Search by	Search Hints	Examples	Field Qualifier Command Line Searching
International Patent Classification (IPC v 8) Note: Not all attributes will be available for all codes. Questel Orbit will output what is delivered to us by the producer	IPC All IPC v8 and historical IPC codes can be searched at different levels : full code (ANNA-NNN/NNNN) group (ANNA-NNN) sub-class (ANNA) class (ANN+ – use unlimited truncation) ICM: Main IPC (from 1995 to 2006) ICA: Additional IPC ICS: Secondary IPC	A43B-005/04 A43B-005 A43B A43+	/IC A43B-005/04 /IC1 A43B-005 /IC2 A43B /IC A43+ /ICM A63B-043 /ICA B25B-001 /ICS F01B
EPO Classification (ECLA)	Search the ECLA codes in the following formats: SubClass: ANNA Group: ANNA-NNN SubGroup: ANNA-NNN/NN Subdivision: ANNA-NNN/NNN ANNA-NNN/NN ANNA-NNN/NNAN ANNA-NNN/NNANA ANNA-NNN/NNANAN The generic levels are separately searchable without truncation. Use double quotes to search the complementary chemical codes that contain colon [:] separators. Note: To search the range of ECLA codes, use colon [:] between the first and last item specified in the range of codes. Auto posting of the subclasses may cause false hits, please use this feature with care.	A63F E21B-001 E21B-00? E21B-003/02 C21D-001/773 C21D-006/00K B25G-001/06S1 B25F-005/02B2B C12Q-001/68D2E1	/EC A63F /EC E21B-001 /EC E21B-00? /EC E21B-003/02 /EC C21D-001/773 /EC C21D-006/00K /EC B25G-001/06S1 /EC B25F-005/02B2B /EC C12Q-001/68D2E1 /EC "C07C-025:08" /EC "C07C-025:125" /EC A63F-001/00:A63F-001/16
USPTO Classification (PCL) Note: US Classes are revised quarterly and retrospectively applied	Search the Main (Primary) and Cross Reference (Secondary) classes simultaneously Search the original US classification with 9 or 12 characters in the format: MMMSSDDDDAAA. - MMM= three digit main class - SSS= three digit subclass or DIG for digest - DDD= three digits - AAA= 1-3 alpha characters To search the PCL by: - the class (3 characters), - the "digest" including the DIG notice, - the full code (ending with 3 digits (DDD) and 3 alphanumeric characters (AAA)). Search the Main US Class	526196000 526 123DIG 123001 123DIG005 123001000A 123027000GE 074003520	/PCL 714777000 /PCL 714 /PCL 714005 /PCLO 714

Command Line

Using the Command Line gives greater flexibility to use all Questel operators, forms of truncation, and nesting in conjunction with keywords. QPAT is not case sensitive. From the Advanced Search General Menu, click on the box marked Command Line.

With the Command Line it is possible to visualize the translation of your request into the command language of Questel Orbit. To do so, fill in the boxes and **prior** to clicking search, Click Use Command Line. You may then append to your search strategy.

Using the OR or NOT operator across fields. Assist uses AND operator across fields

Examples:

SMITH/PA OR SMITH/IN G06F/IC NOT US/PAC

Specifying field qualifiers not offered in Assist boxes – see Fact Sheets for Field Lists

Examples:

/MCLM (Main Claim) /RP (Representative Name) /PAC Assignee Country

Greater flexibility with date searching in FamPat and PlusPat

Examples:

JP S 2005/PN (1st or 2nd stage pub dates)

Field Qualifiers for Full-Text Searching ONLY

When searching the full-text files, you may elect to limit your keyword search to specific sections of the patent, for example titles, abstracts, claims or descriptions.

TI	Searches for keywords in the title only	water safety/TI
AB	Searches for keywords in the abstract only	voltage control/AB
CLMS	Searches keywords in all claims	ethanol/CLMS
DESC	Searches keywords in the Description only	synthesis/DESC

Inventor Searching

Inventor names are not standardized, so it is recommended that you search all possible variations on a name. The inventor's name is typed, Last Name <space> First Name in the box labeled "Inventor". A comma is used to separate one variation from another and is searched with the operator **OR**. The **NOT** operator cannot be used. Different versions of an inventor name can be covered in one search by entering the variations separated by commas. Example: **SMITH DANIEL, SMITH DAN, SMITH D**

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Patent Search

Search in:

Classification:

Assignee:

Inventor:

Publication number:

Publication country:

Date:

Limit to recent publication:

☐ Use command line:

☒ Collection list:

Select: All | None

Full text	Published applications	Granted
US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971
EP	<input type="checkbox"/> from 1970	<input type="checkbox"/> from 1980
PCT	<input type="checkbox"/> from 1970	
France	<input type="checkbox"/> from 1980 in French	
Germany	<input type="checkbox"/> from 1987 in German	<input type="checkbox"/> Patent from 1987 in German
United Kingdom	<input type="checkbox"/> from 1979	<input type="checkbox"/> Utility models from 2004 in German
First page	Published applications or granted patents	
France	<input type="checkbox"/> from 1986 in French	

You may check for variations of the name by using the Lookup Feature. Enter the Inventor Name, and then click the ✓ to the right of the Inventor box.

A list of possible candidates will open in a new window. You may then add to or replace your original query: You may set the number of candidates displayed to 15, 30, 45, or 60.

Check the box (es) next to the pertinent names. You may then add or replace into your query.

http://www.qpat.com - Questel QPAT - Microsoft Internet Explorer

Dictionary

Search Patent inventor:

Number of results:

Results:

Patent inventor	frequency
<input type="checkbox"/> SMITH DANIEL VICTOR	8
<input type="checkbox"/> SMITH DANIEL W	48
<input type="checkbox"/> SMITH DANIEL WAYNE	4
<input type="checkbox"/> SMITH DANIEL WEBSTER	2
<input type="checkbox"/> SMITH DANIEL WIM	1
<input type="checkbox"/> SMITH DANIEL	1
<input type="checkbox"/> SMITH DANIEL H	1
<input type="checkbox"/> SMITH DANIELLE M	1
<input type="checkbox"/> SMITH DANIS	1
<input type="checkbox"/> SMITH DANNY	2
<input type="checkbox"/> SMITH DANNY E	5
<input type="checkbox"/> SMITH DANNY ELWOOD	11
<input type="checkbox"/> SMITH DANNY G	1
<input type="checkbox"/> SMITH DANNY J	3
<input type="checkbox"/> SMITH DANNY JOE	1
<input type="checkbox"/> SMITH DANNY L	18

The inventor field may be searched in conjunction with any of the other fields on the screen. For example, the inventor and patent assignee, and keywords may be used simultaneously.

Patent Assignee Searching

Assignee or company names are not standardized. Frequently, a company will be listed with many variations to its name. Different versions of an assignee name can be covered in one search by entering the variations separated by a comma(s). All text should be entered into the "Assignee" box. All variations are to be separated by commas.

Truncation symbols can be used in this search field. A comma is used to separate one variation from another and is searched with the operator **OR**. The operator **AND** can be used to separate search terms. The **NOT** operator cannot be used. The assignee field may be searched in conjunction with any of the other fields listed on the screen.

For example, the patent assignee, inventor and keywords may be used simultaneously.

To search on the name of the patent assignee or owner at the time of publication of a patent:

Use the unique part of the name; do not search Corp, Inc, Ltd, KK or GmbH

- Use truncation: + on the stem of each word in the assignee name to allow for multiple word endings
- Use all possible variations of the name: acronyms, spelled out in full, and as one word or two
- Use all earlier versions of a company name

For example:

IBM, INT+ BUS+ MACH+

Retrieves patent records assigned to IBM

DUPONT, DU PONT, NEMOURS

Retrieves patent records assigned to Dupont

QPAT Version 5.1b

Patent Search

Search in:

Classification:

Assignee: ☒

Inventor:

Publication number:

Publication country:

Date:

Limit to recent publication:

☐ Use command line:

☒ Collection list

Select All | None

Full text	Published applications	Granted
US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971
EP	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1988
PCT	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1988
France	<input type="checkbox"/> from 1988	<input type="checkbox"/> from 1988
Germany	<input type="checkbox"/> from 1987	<input type="checkbox"/> Patent from 1987
United Kingdom	<input type="checkbox"/> from 1979	<input type="checkbox"/> Utility models from 2004

First page Published applications or granted patents

France ☐ from 1986

A list of possible candidates will open in a new window. Options for display the number of candidates are 15, 30, 45, or 60.

Dictionary

Search: Patent assignee:

Number of results:

Results

Select terms to add to your query

Patent assignee	frequency
<input type="checkbox"/> IBM UNITED KINGDOM LTD., PORTSMOUTH	13
<input type="checkbox"/> IBM US	13
<input type="checkbox"/> IBM WORLD TRADE LAB GREAT BRIT	5
<input type="checkbox"/> IBM,	11
<input type="checkbox"/> IBM, ARMONK NY [US]	22
<input type="checkbox"/> IBM, NY [US]	11
<input type="checkbox"/> IBM, SAN JOSE CA [US]	11
<input type="checkbox"/> IBM, YORCKTOWN HEIGHTS NY [US]	13
<input type="checkbox"/> IBM,US	44
<input type="checkbox"/> IBM,	11
<input type="checkbox"/> IBM, SPA	12
<input type="checkbox"/> IBMINTERNAT BUSINES MACHINES C	11
<input type="checkbox"/> IBMV MARITIME INNOVATIONS GMBH	11
<input type="checkbox"/> IBMV MARITIME INNOVATIONS	11

Publication Numbers

The default selection for the Patents General Search interface is publication number. Enter the publication number and click search. Multiple publication numbers may be searched separated by commas.

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Patent Search

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Classification:

Assignee:

Inventor:

Publication number:

Publication country:

Date:

Limit to recent publication:

☐ Use command line:

☒ Collection list:

Select: All | None

Full text	Published applications	Granted
US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971
EP	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1980
PCT	<input type="checkbox"/> from 1978	
France	<input type="checkbox"/> from 1980 <i>in French</i>	
Germany	<input type="checkbox"/> from 1987 <i>in German</i>	<input type="checkbox"/> Patent from 1987 <i>in German</i>
United Kingdom	<input type="checkbox"/> from 1979	<input type="checkbox"/> Utility models from 2004 <i>in German</i>
First page		
France	<input type="checkbox"/> from 1966 <i>in French</i>	

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Clicking on the Patent Number Wizard, allows you to enter up to 100 publication numbers at a time. Any format may be used; however you must remember to enter the two letter country code preceding each number.

Patent number wizard

Patent numbers

Enter up to 100 patent numbers separated by space, comma, semicolon or carriage return.

US 6,217,821
WO 99/0234
JP61-02345

If you choose not to use the Patent Number Wizard, or for entering publication numbers using any other QPAT menu, the following is a guide for entering publication numbers:

- Always enter the two-character Country Code preceding the patent number. Do not enter spaces, commas or slashes in the patent number.

US5123456 not ~~US 5,000,000~~ ~~WO 01/ 11156~~ ~~JP 02 531211~~

- Do not enter Publication Kind or Status Codes (A, B, etc.) with number.

~~EP2794443B~~ ~~EP1000000A2~~ ~~DE1588442B~~

- Use four-digit year with patent numbers that include year and are published >=2000.

WO200112345, **JP2001053423**

- Use two-digit year with patent numbers that include year and are published < 2000.

WO9912345

- For numbers less than seven digits long, left fill with dashes until a length of seven is reached.

EP—22345

- Enter multiple patent numbers separated by commas.

FR2794443, **CA2278948**

Japanese (JP) Publication Numbers:

JP-A (Kokai) Unexamined Applications published >= 2000

Use four-digit year: **JP2001000001** (10 digits)

JP-A (Kokai) Unexamined Applications published < 2000

Use two-digit IMPERIAL year and fill in with zeros between "JPYY" and "number" for a total of 8 digits.

JP 50 /2 A (1975) is entered as: **JP50000002**

JP-B2 (Toroku) Granted patents published >1996-05-29

Continuous series w/o year: **JP25000002**

JP-C (Toroku) Granted patents published <1996-05-29

Continuous series w/o year: **JP746395** (6 or 7 digits)

JP-B (Koho) Examined Applications published .<= 1996-5-29

Use two-digit Western year and fill in with zeros between "JPYY" and "number" for a total of 8 digits.

JP 50 /2 B (1975) is entered as: **JP75000002**

Application & Priority Numbers

From the drop-down menu, select application or priority number, enter the standardized number and click search. Multiple numbers may be searched, separated by a comma. You may also elect to search the application and priority numbers simultaneously.

The following is a guide to formatting Application and/or Priority Numbers in QPAT

Questel•Orbit standardized format: YYYYCC-NNNNNNN

Example: Converting GB9410620 to standardized format

GB Two-letter Country Code
 94 Year of Application (Convert to a four-digit year 94 ⇒ 1994)
 10620 Application or Priority Number (Must be seven digits, fill in missing digits with zeros) 10620 ⇒ 0010620
 Final Number 1994GB-0010620

Questel•Orbit standardized format for WO/PCT numbers: YYYYWO-CCNNNNN

Converting PCT/DE00/02241 to standardized format

2000 Year of Application or Priority
 WO Designation as a WO/PCT
 DE Two-letter Country Code
 02241 Application or Priority Number (Must be five digits, fill in missing digits with zeros.)
 Final Number 2000WO-DE02241

Questel standardized format for US Provisional number: YYYYUS-PNNNNNN

Converting US Provisional 60/534950, filed January 8, 2004, to standardized format

2004 Year of Application or Priority
 US Country Code
 P Designation for Provisional Application or Priority, replaces series code 60
 481952 Application or Priority Number
 Final Number: 2004US-P534950 YYYYUS-PNNNNNN

Date Range Searching

You can limit your results to a **specific date range** using **Publication**, **Application**, or **Priority** dates. The date range that you choose will be searched inclusively, i.e., it will include the dates selected.

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Patent Search

Search in:

Classification:

Assignee:

Inventor:

Publication number:

Publication country:

Date:

Limit to recent publication:

☐ Use command line:

☒ Collection list:

Select All | None

Full text	Published applications	Granted
US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971
EP	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1980
PCT	<input type="checkbox"/> from 1978	
France	<input type="checkbox"/> from 1980 <i>in French</i>	
Germany	<input type="checkbox"/> from 1987 <i>in German</i>	<input type="checkbox"/> Patent from 1987 <i>in German</i>
United Kingdom	<input type="checkbox"/> from 1979	<input type="checkbox"/> Utility models from 2004 <i>in German</i>
First page	Published applications or granted patents	
France	<input type="checkbox"/> from 1986 <i>in French</i>	

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Note that **FamPat** records contain multiple family members and thus multiple publication dates for one invention. **PlusPat** records contain multiple publication stages, and thus multiple publication dates for one invention. A **Limit by Publication Date** search in **FamPat** or **PlusPat** always uses the publication date of the first publication stage. In the case of **FamPat** searching this would include the date of first publication for all family members. Due to the size of the **FamPat** and **PlusPat** databases, date range searches can be slow to process. In **FamPat** or **PlusPat**, we recommend that you keep the date range span to less than 10 years. The **U.S. Patents** database only provides priority dates for non-U.S. priority filings. The **French Patents** database only provides priority dates for non-French priority filings.

Limit by Update

You can limit your results to publications added in the most recent update; or publications added to the database(s) in the last four weeks.

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Patent Search

Search in:

Classification:

Assignee:

Inventor:

Publication number:

Publication country:

Date:

Limit to recent publication:

☐ Use command line:

☒ Collection list:

Select All | None

Full text	Published applications	Granted
US	<input type="checkbox"/> from 2001	<input type="checkbox"/> from 1971
EP	<input type="checkbox"/> from 1978	<input type="checkbox"/> from 1980
PCT	<input type="checkbox"/> from 1978	
France	<input type="checkbox"/> from 1980 <i>in French</i>	
Germany	<input type="checkbox"/> from 1987 <i>in German</i>	<input type="checkbox"/> Patent from 1987 <i>in German</i>
United Kingdom	<input type="checkbox"/> from 1979	<input type="checkbox"/> Utility models from 2004 <i>in German</i>
First page	Published applications or granted patents	
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Section III– Display Options

Hit List Display

Your search results will return a hit list display in the following format: Publication Number, Publication Date, Title and Assignee. The Records per Page option allows for display of 10, 25, 50, 100 or 200 records per page. From the Hit List initial display, you may print the hit list by selecting the Printer Friendly Option, Export the Hit List, Add selected records to a Workfile. From here you may also Save a Search, Create an Alert or use the Analyze feature.

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Display • Printer friendly | Export | Order copy | Add to a workfile | Highlight | Save search | Create an alert | Analyze

Search: (((COLLAPS+ OR FOLD+) 3D (KEYBOARD OR (KEY BOARD)))) OR (G06F-003/02A6)(EC)

Records: 1-200 of 645 Page: 1 2 3 4 Next >> Show: 200 records per page

#	FamPat family	Date	Title	Assignee
1	US20070296705	20071227	MINIATURE KEYBOARD FOR A HAND HELD COMPUTER	PALM, INC.
2	US20070290890	20071220	FOLDABLE KEYBOARD	DARFON ELECTRONICS CORP.
3	CA2548924	20071104	ULTRA HANDHELD INTERNET PORTABLE(U-HIP)	GRAY STEPHEN G
4	WO2007112480	20071011	FOLDABLE KEYBOARD SUPPORT	RENOUF MARK RONALD
5	WO2007084078	20070726	A KEYBOARD FOR A MOBILE PHONE OR OTHER PORTABLE COMMUNICATION DEVICES	SIMLAB INV S & CONSULTANCY PRI YU FREEMAN ZHENHUA
6	WO2007089158	20070809	EXTERNAL KEYBOARD	AASEN TORBJOERN
7	US2007178852	20070802	Communication device	YOUNG ROGER L
8	US2007177921	20070802	STAGGERED KEYBOARD FOR A PORTABLE DEVICE	GRIFFIN JASON T TYNESKI FRANK M
9	US2007172287	20070726	Keyboard and Keys	HIRSCH STEVEN B
10	CN2919364	20070704	Folding keyboard	LI WEIGAO
11	CN1992739	20070704	Mobile terminal with foldable keyboard	LG ELECTRONICS CHINA RES & DEV
12	WO2007073590	20070705	AIRPORT LUGGAGE TROLLEY WITH A BUILT-IN PERSONAL COMPUTER	COELHO MARCELO MACHADO PAIXAO JOSE ROBERTO DA JUNIOR PAIXAO JUNIOR JOSE ROBERTO DA
13	TW301369	20061121	Foldable keyboard	INVENTEC CORP
14	KR20070036904	20070404	PORTABLE TERMINAL WITH FOLDABLE KEY BOARD	SAMSUNG ELECTRONICS CO LTD
15	EP1795994	20070613	Handheld electronic device with reconfigurable keypad	RES IN MOTION LTD
16	US2007165020	20070719	Patient device with separate user interface	BOSSHARD DAVID BRUGGER MARTIN DUCRET MAURICE HAUETER ULRICH

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Individually clicking on the + unfolds the view to include the abstract and image, or you may select unfold page, or unfold all.

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Display • Printer friendly | Export | Order copy | Add to a workfile | Highlight | Save search | Create an alert | Analyze

Search: (((COLLAPS+ OR FOLD+) 3D (KEYBOARD OR (KEY BOARD)))) OR (G06F-003/02A6)(EC)

Records: 1-200 of 645 Page: 1 2 3 4 Next >> Show: 200 records per page

#	FamPat family	Date	Title	Assignee	Image
1	US20070296705	20071227	MINIATURE KEYBOARD FOR A HAND HELD COMPUTER	PALM, INC.	
<p>Abstract: A miniature keyboard for a palm held computer is disclosed. The miniature keyboard includes a plurality of keys for providing input to a hand held computing device. The keyboard includes a platform supporting the plurality of keys. The platform is configured to be sized for use by a single hand and the platform is selectively foldable to substantially conceal the plurality of keys from view. The keyboard also includes a support structure that couples the platform to the hand held computing device body. The support structure is configured to prevent substantial movement of the platform relative to the hand held computing device body.</p>					
2	US20070290890	20071220	FOLDABLE KEYBOARD	DARFON ELECTRONICS CORP.	
3	CA2548924	20071104	ULTRA HANDHELD INTERNET PORTABLE(U-HIP)	GRAY STEPHEN G	
4	WO2007112480	20071011	FOLDABLE KEYBOARD SUPPORT	RENOUF MARK RONALD	
5	WO2007084078	20070726	A KEYBOARD FOR A MOBILE PHONE OR OTHER PORTABLE COMMUNICATION DEVICES	SIMLAB INV S & CONSULTANCY PRI YU FREEMAN ZHENHUA	
<p>Abstract: A keyboard as disclosed is equipped with sensors or sensing structures for perceiving a finger's presence. It allows a single manual movement applied to a button, such as a key press action, to select any one of the optional characters overlaid on a button for inputting. This provides an efficient, flexible, and accurate text entry method. Such a keyboard or portable device avoids or lessens the problems of misspelling of predictive texting and slow typing speed associated with the conventional multi tapping single entry techniques. Furthermore, it can be implemented with other existing text entry techniques together in the same phone. Since this proposed technique, known as the single tap selective entry technique, conforms to the commonly accepted pattern of using a large-sized computer keyboard and requires little or no training, it is easier to be adopted by public for a more friendly, precise and speedy messaging operation.</p>					
6	WO2007089158	20070809	EXTERNAL KEYBOARD	AASEN TORBJOERN	
7	US2007178852	20070802	Communication device	YOUNG ROGER L	
8	US2007177921	20070802	STAGGERED KEYBOARD FOR A PORTABLE DEVICE	GRIFFIN JASON T TYNESKI FRANK M	

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Hit List Display from Multi-file Search

The cumulative total of all results will be listed in the Database Results window. A drop-down menu containing all of the results, or the results from each database is available. Highlighting the database line will enable you to view results from individual databases.

QPAT Version 6.1b

Display * Printer friendly | Export | Order copy | Add to a workfile | Highlight | Group in families | Save search | Create an alert |

Search: (((COLLAPS+ OR FOLD+) 3D (KEYBOARD OR (KEY BOARD)))) OR (G06F-00302A6)(IC)

Page: 1 2 3 4 5 ... Last Next >>

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Record	Patent	Date	Title	Assignee	Image
1	US20070296705	20071227	MINIATURE KEYBOARD FOR A HAND HELD COMPUTER	PALM, INC.; 950 W. Maude Avenue, Sunnyvale, CA [US]	
2	US20070290890	20071220	FOLDABLE KEYBOARD	DARFON ELECTRONICS CORP.; TAOYUAN [TW]	
3	US20070248238	20071025	Biologically fit wearable electronics apparatus and methods		
4	US20070244991	20071018	Negotiated wireless peripheral systems		
5	US20070244965	20071018	Negotiated wireless peripheral systems		
6	US20070242421	20071018	FOLDING COMPUTER		
7	US20070239921	20071011	Notebook having secondary processor coupled by a multiplexer to a content source or disk drive	PortalPlayer, Inc. [US]	
8	US20070239920	20071011	Method and system for communication between a secondary processor and an auxiliary display subsystem of a notebook	PortalPlayer, Inc. [US]	
9	US20070237313	20071011	Telephone/Transaction Entry Device and System for Entering Transaction Data into Databases	CYBERFONE TECHNOLOGIES, INC. [US]	
10	US20070236908	20071011	ELECTRONIC APPARATUS	Sony Corporation; Tokyo [JP]	
11	US20070236873	20071011	ELECTRONIC APPARATUS	Sony Corporation; Tokyo [JP]	
12	US20070236459	20071011	Interchangeable keyboard for computer systems		
13	US20070236407	20071011	Method and system for displaying data from auxiliary display subsystem of a notebook on a main display of the notebook	PortalPlayer, Inc. [US]	
14	US20070235617	20071011	PIVOTING MECHANISM FOR STAND AND ELECTRONIC APPARATUS	Sony Corporation; Tokyo [JP]	
15	US20070235354	20071004	Project management system and method	Manware Inc.; Hollywood, FL [US]	

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Displaying Records

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Search: (((COLLAPS+ OR FOLD+) 3D (KEYBOARD OR (KEY BOARD)))) OR (G06F-00302A6)(IC)

Page: 1 2 3 4 Next >>

Show: 200 records per page

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Record	Patent	Date	Title	Assignee	Image
1	US20070296705	20071227	MINIATURE KEYBOARD FOR A HAND HELD COMPUTER	PALM, INC.	
2	US20070290890	20071220	FOLDABLE KEYBOARD	DARFON ELECTRONICS CORP.	
3	CA2548924	20071104	ULTRA HANDHELD INTERNET PORTABLE(U-HIP)	GRAY STEPHEN G	
4	WO2007112480	20071011	FOLDABLE KEYBOARD SUPPORT	RENOUF MARK RONALD	
5	WO2007084078	20070726	A KEYBOARD FOR A MOBILE PHONE OR OTHER PORTABLE COMMUNICATION DEVICES	SIMLAB INV S & CONSULTANCY PRI YU FREEMAN ZHENHUA	
6	WO2007089158	20070809	EXTERNAL KEYBOARD	AASEN TORBUOERN	
7	US2007178852	20070802	Communication device	YOUNG ROGER L	
8	US2007177921	20070802	STAGGERED KEYBOARD FOR A PORTABLE DEVICE	GRIFFIN JASON T TYNESKI FRANK M	

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Once the documents are viewed, the hit list will display viewed records in blue, to differentiate at a glance, those records that have been reviewed. Additionally the hit list toolbar provides for starring relevant documents directly at the hit list display level.

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#	FamPat family	Date	Title	Assignee	Image
1	US20070296705	20071227	MINIATURE KEYBOARD FOR A HAND HELD COMPUTER	PALM, INC.	★
2	US20070290890	20071220	FOLDABLE KEYBOARD	DARFON ELECTRONICS CORP.	★
3	CA2548924	20071104	ULTRA HANDHELD INTERNET PORTABLE(U-HIP)	GRAY STEPHEN G	★
4	WO2007112480	20071011	FOLDABLE KEYBOARD SUPPORT	RENOUF MARK RONALD	★
5	WO2007084078	20070726	A KEYBOARD FOR A MOBILE PHONE OR OTHER PORTABLE COMMUNICATION DEVICES	SIMLAB INV S & CONSULTANCY PRI YU FREEMAN ZHENHUA	★
6	WO2007089158	20070809	EXTERNAL KEYBOARD	AASEN TORBJOERN	★
7	US2007178852	20070802	Communication device	YOUNG ROGER L	★
8	US2007177921	20070802	STAGGERED KEYBOARD FOR A PORTABLE DEVICE	GRIFFIN JASON T TYNESKI FRANK M	★
9	US2007172287	20070726	Keyboard and Keys	HIRSCH STEVEN B	★
10	CN2919364	20070704	Folding keyboard	LI WEIGAO	★
11	CN1992739	20070704	Mobile terminal with foldable keyboard	LG ELECTRONICS CHINA RES & DEV	★
12	WO2007073590	20070705	AIRPORT LUGGAGE TROLLEY WITH A BUILT-IN PERSONAL COMPUTER	COELHO MARCELO MACHADO PAIXAO JOSE ROBERTO DA JUNIOR PAIXAO JUNIOR JOSE ROBERTO DA	★
13	TW301369	20061121	Foldable keyboard	INVENTEC CORP	★
14	KR20070036904	20070404	PORTABLE TERMINAL WITH FOLDABLE KEY BOARD	SAMSUNG ELECTRONICS CO LTD	★
15	EP1795994	20070613	Handheld electronic device with reconfigurable keypad	RES IN MOTION LTD	★
16	US2007165020	20070719	Patient device with separate user interface	BOSSHARD DAVID BRUGGER MARTIN DUCRET MAURICE HAUTER ULRICH	★

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- EXP was revealed during the examination phase
- OP was revealed during the opposition phase
- A115 Article 115 (Observation by third parties)
- RFU research for future use
- PCTII was cited during PCT chapter II, preliminary examination

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- ☐ Show all detail information (print version)
- ☐ Hide all detail information (standard view)
- ☐ Report
- ☐ CSV File
- ☐ All 1st level cited Patnumbers
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Patent Number: FR 2891636

Bibliographic Information		Family Information	
FR 2891636 B1	2007-11-23	FR 2891636	2007-04-06

Cited Documents **Citatory Documents**

No Non Patent Literature

No entries available

EP 1533824 A1	2005-05-25	SR
US 6217183 B1	2001-04-17	SR
US 6184401 B1	2001-02-06	SR
DE 4203242 A1	1993-06-03	SR
US 4735520 A	1988-04-05	SR
US 4570039 A	1986-02-11	SR

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- Incident report
- Help Desk
- Coverage and information

Patent Number: US2007008291 A1 20070111

Foldable keyboard
(US2007008291)

A foldable keyboard for inputting data into a portable electronic device is provided. The foldable keyboard includes an upper cover, a lower cover, a first keyboard portion, and a second keyboard portion. A space is formed, as the upper and the lower cover are in closed relationship to each other, for accommodating the first and second keyboard portions. As the upper and lower covers are opened from the closed relationship and the second keyboard portion, relative to the first keyboard portion, is rotated pivotally, said first and second keyboard portions are allowed to be substantially on a common plane.

Inventor(s): LIU CHA-HUNG
Patent Assignee: DARFON ELECTRONICS CORP.
Orig. Patent Assignee: Darfon Electronics Corporation;

Family Members:

Publication Number	Kind	Publication date	Links
US2007008291	A1	20070111	Abstract
STG:		Utility Patent Application published on or after January 2, 2007	
AP:		2006/US-0480414 20060705	
TXV200607	B	20070111	
STG:		Patent	
AP:		2005TW-0122670 20050705	

Priority Details: 2005TW-0122670 20050705

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IMAGE:

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Patent Number: US2007008291 A1 20070111

Foldable keyboard
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A foldable keyboard for inputting data into a portable electronic device is provided. The foldable keyboard includes an upper cover, a lower cover, a first keyboard portion, and a second keyboard portion. A space is formed, as the upper and the lower cover are in closed relationship to each other, for accommodating the first and second keyboard portions. As the upper and lower covers are opened from the closed relationship and the second keyboard portion, relative to the first keyboard portion, is rotated pivotally, said first and second keyboard portions are allowed to be substantially on a common plane.

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CLAIMS:

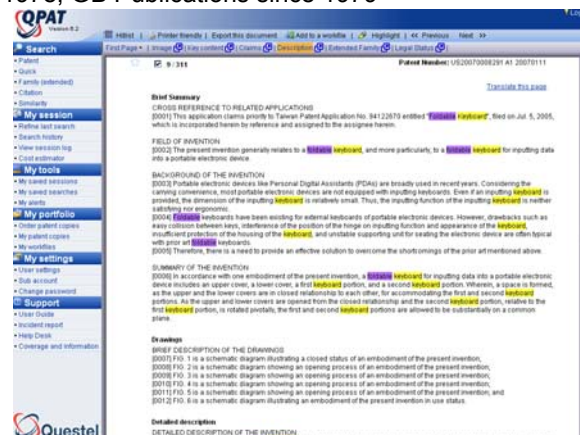
Claims Coverage: United States since 1971; European Patents since 1978; PCT Patents (WO) since 1978; GB Publications since 1979



DESCRIPTION :

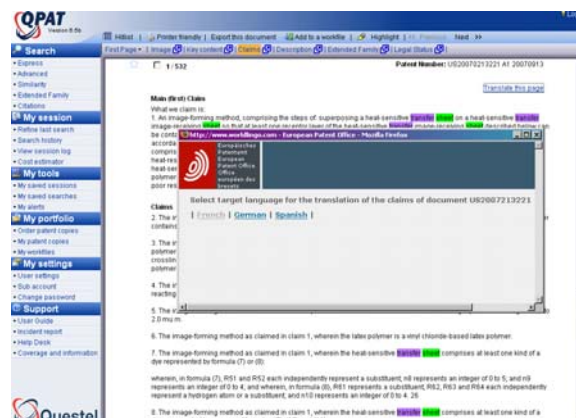
Full-Text Coverage

QPAT has eleven full-text files: U.S. Patents, U.S. Published Applications, European Patents, European Published Applications, French Published Applications, German Published Applications, German Patents, German Utility Models, Great Britain Published Applications and PCT (WO) applications. Full-Text Coverage: United States since 1971; European Publications since 1978; French applications from 1980; German Publications from 2004; PCT Publications (WO) since 1978; GB Publications since 1979



Translation

French, German and Spanish language results can be translated to English (or vice-versa) through the translation feature. Clicking on the Translate this page link, takes you to the European Patent Office Translations service.



Additional Displays – FamPat Only

Key Content: Patent Object; Advantages and Drawbacks; Independent Claims: EP Published Applications; PCT Published Applications; US Granted Patents; US Published Applications

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First Page | Image | Key content | Claims | Description | Extended Family | Legal Status

Patent Number: TW270807 B 20070111

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Object of Invention
(US20070008291)
A foldable keyboard for inputting data into a portable electronic device is provided.
[0002] The present invention generally relates to a foldable keyboard, and more particularly, to a foldable keyboard for inputting data into a portable electronic device.

Advantages / Prev. Drawbacks
(US20070008291)
[0005] Therefore, there is a need to provide an effective solution to overcome the shortcomings of the prior art mentioned above. Therefore, it is intended that the following claims, accompanied by detailed descriptions giving the broadest explanation, not only define the scope of the present invention but also cover all such modifications and changes as fall within the true spirit and scope of the present invention.

Independent Claims
(US20070008291)
1. A foldable keyboard for inputting data into a portable electronic device, comprising:
an upper cover for supporting said portable electronic device; a lower cover pivotally connected to said upper cover; a first keyboard portion slidably connected with said upper cover and said lower cover, and a second keyboard portion pivotally connected to said first keyboard portion, wherein, a space is formed, as said upper cover and said lower cover are in a closed relationship to each other, for accommodating said first and second keyboard portions, and as said upper and lower covers are opened from the closed relationship and said second keyboard portion, relative to said first keyboard portion, is rotated pivotally, said first and second keyboard portions are allowed to be substantially on a common plane.

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Extended Family Results:

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Patent Number: TW270807 Y 20050721

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#	Patent Number	Kind	Date	Application No	Date
1	TW270807	B	20070111		
	US20070008291	A1	20070111		
2	TW270807	Y	20050721		

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Priority number	Date
2005TW-0122670	20050705
2005TW-U200984	20050119

Family Accession Nbr 20070170057236

FamPat family

Publication Number	Kind	Publication date	Links
TW270807	B	20070111	
US20070008291	A1	20070111	

Title Foldable keyboard

Patent Assignee DARFON ELECTRONICS CORP

Orig. Patent Assignee Darfon Electronics Corporation;

Inventor(s) LIU CHIA-HUNG

Application Nbr 2005TW-0122670 20050705
2006US-0480414 20060705

Priority Details 2005TW-0122670 20050705

IPC G09G-005/00

IPC Advanced All G09G-005/00 [2006-01 A F I B H US]

IPC Core All G09G-005/00 [2006 C F I B H US]

ECLA G06F-003/023C
G06F-003/0246

ICO Code T01H-223/046

US Class ORIGINAL (O) : 345168000

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Family Accession Nbr 20062070030059

FamPat family

Publication Number	Kind	Publication date	Links

Legal Status Information

Including legal status information with document displays will show information relating to thousands of different types of legal actions, which can affect a patent after publication or grant. Color highlighting of **Publication Numbers** in blue, **Positive Actions** are displayed in green, **Negative Actions** are displayed in red.

Country Coverage for Legal Status

Data relating to 47 Patenting Authorities may be found. Source: EPO's INPADOC Legal Status and PRS

- For Country Codes listed in **bold type** in table below; Various legal actions from that Patent Office
- For Country Codes **without** bold type in table below; No legal status records from that Patent Office -only WIPO data for entry in national phase (ENP) is listed in **corresponding WO legal status record**.

Austria	AT	Denmark	DK	Israel	IL	Norway	NO
Australia	AU	Estonia	EE	Italy	IT	Philippines	PH
Belgium	BE	European Patent Office	EP	Japan	JP*	Portugal	PT
Bulgaria	BG	Spain	ES	Kenya	KE	Romania	RO
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Germany (ex-GDR)	DD	Hong Kong	HK	Netherlands	NL	WIPO (P.C.T.)	WO
Germany	DE	Ireland	IE				

* Japanese Legal Status information is available, as an add-on, to QPAT subscriptions. Provided by PATOLIS-e, legal status and viability information is provided for Japanese patents and utility models.

The screenshot displays the QPAT software interface, which is used for patent search and legal status analysis. The interface includes a sidebar with navigation options such as 'Search', 'My session', 'My tools', 'My portfolio', 'My settings', and 'Support'. The main window shows a list of patent records with columns for 'Date', 'Action Taken', and 'Legal Status'. The records are color-coded: green for positive actions and red for negative actions. The 'Legal Status' column contains various codes and descriptions, such as 'CORRESPONDS TO: (DE 602005004152 20080214 (DE602005004152))' and 'OB EUROPEAN PATENT GRANTED'. The interface also includes a 'Search' bar and a 'Filter' section. The bottom of the screen shows the 'Questel' logo and the version number 'QPAT v6'.

Section IV – Similarity Searching

ECLA Codes

What is a Similarity Search?

A similarity search uses all of the European Classification Codes (ECLA) assigned to a patent to automatically search for other patents with those classifications. If your initial patent does not have ECLAs assigned to it, then the International Patent Classifications (IPC) assigned to the patent will be used to conduct the search.

What are ECLA Codes?

Classification system, based on IPC (International Patent Classification) with alpha/numeric extensions, used by EPO examiners; very precise

- Over 210,000 entries, providing a high degree of focus, with monthly updates applied retrospectively
- 80,000 additional subdivisions compared with IPC
- A living classification system; no need to track previous editions
- Creation of new codes driven by new technologies or the need to subdivide a classification
- English, German, French and Dutch documents are studied
- The online thesaurus of ECLA codes is File ECLADEF

The Philosophy Behind the Application of IPC and ECLA

- Using IPCs, the various Patent Offices classify the technical content of the documents
- Using ECLAs, the EPO examiners 'explode' the patent and classify the interesting, novel, parts of the technical content of the document
- In most cases, the IPCs and ECLAs will differ

Why search with ECLA codes?

Consistent and very precise, with worldwide coverage, ECLA codes are among the sharpest tools to conduct comprehensive prior art searches. They enable retrieval of records where little or no searchable text is available or where the textual representation of a concept is inconsistent.

Why do a Similarity Search?

The Similarity search is an easy way to execute precise international patent subject searches, starting from a single patent number.

QPAT offers two unique and easy ways to take full advantage of those ECLA codes.

For a single patent number, use the Similarity Search menu. You may then enter the publication number. You may also elect to exclude results from Japan, the EPO, the PCT or the US.

***Please note: Most Japanese publications are not assigned ECLAs and will therefore not be included in most Similarity Search results.*

What is the US Patents PCL/ECLA Correspondence option?

Available only for US patents, when selected, this option searches the entire database to find the ECLA that most frequently co-occurs with the US Original Patent Classification listed in the US patent searched. QPAT then automatically searches for patents with that ECLA. This option will produce more specific results, as a single ECLA is searched. It also ensures that the search is conducted on the ECLA and not the IPC.

Similarity Search, no country exclusion:



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Similarity Search
Find patents similar to a known patent

Publication number: TW247976 (e.g.: EP-123456)

☐ US Patents: PCLECLA Correspondence

Country: No country exclusion

Collection: Worldwide patents *FamPat*

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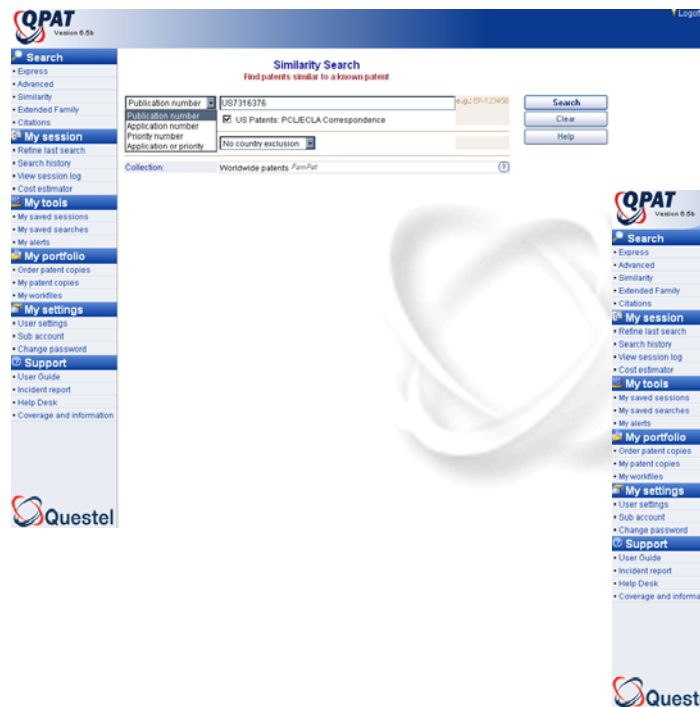
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Search Results
Records: 1-100 of 3059
Select All | Page 1 | Status | Not started | Viewed | Not viewed | None

#	FamPat family	Date	Title	Assignee	Image
1	EP1803400	20080326	A method to remove resist layers from a substrate	IMEC INTER UNI MICRO ELECTRONICS	
2	US20080066337	20080320	Substrate water-removing agent, and water-removing method and drying method employing same	FLUORFILM CORP FLUORFILM CORPORATION	
3	US2008054144	20080306	In-wall interface and mounting method for display mount	CSAV INC WOHLFORD JIM	
4	EP1892453	20080227	Locking device for computer equipment extension arm	DERRY BRADLEY A INNOVATIVE OFFICE PRODUCTS INC ODDSEN ODD N	
5	US2008035812	20080214	Electronic device hanging mechanism	HANSPREE INC	
6	US2008039354	20080214	METHOD OF MANUFACTURING A THIN FILM TRANSISTOR SUBSTRATE AND STRIPPING COMPOSITION	SAMSUNG ELECTRONICS CO LTD	
7	WO2008023215	20080228	POST CHEMICAL MECHANICAL POLISHING RINSE FORMULATION	CALVO-MUNOZ MARIA-LUISA FARIAS JANOS FREESCALE SEMICONDUCTOR INC PETTEGGER SEBASTIEN STMICROELECTRONICS CROILES 2 S	
8	US2008032908	20080207	AMMONIUM HYDROXIDE TREATMENTS FOR SEMICONDUCTOR SUBSTRATES	VERHAVERBEEK STEVEN	
9	US2008022432	20080207	COMPOSITION FOR STRIPPING PHOTORESIST AND METHOD FOR MANUFACTURING THIN TRANSISTOR ARRAY PANEL USING THE SAME	HUN BOON BEOM JEONG JONG-HYUN KIM BYUNG-UK KIM SEONG-JAE KIM WY-YONG PARK HONG-BICK YOON BUK-S	
10	US2008045016	20080221	Cleaning composition, cleaning method, and manufacturing method of semiconductor device	JSR CORP JSR CORPORATION TOSHIBA CORPORATION (machine translation) TOSHIBA KK	

Results:

Similarity Search, US/PCL Correspondence, US excluded:



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Similarity Search
Find patents similar to a known patent

Publication number: US7316376 (e.g.: EP-123456)

☒ US Patents: PCLECLA Correspondence

Country: No country exclusion

Collection: Worldwide patents *FamPat*

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#	FamPat family	Date	Title	Assignee	Image
1	EP1892453	20080227	Locking device for computer equipment extension arm	DERRY BRADLEY A INNOVATIVE OFFICE PRODUCTS INC ODDSEN ODD N	
2	WO2008015313	20080207	MULTIDIRECTIONAL SUPPORT DEVICE	BISSON STEPHANE CARASCO ANDREAS	
3	WO2008014705	20080207	AN ANGLE-ADJUSTING DEVICE FOR WALL RACK	WU HUI	
4	WO2008012368	20080131	MOUNTING BRACKET	COLEBROOK BOSSON SAUNDERS PROO MILLS JONATHAN WILLS ANDREW	
5	EP1892878	20080130	Universal adjustable support	DAMBACH WERKE GMBH	
6	WO2008010736	20080124	OBJECT MOUNTING WALL, ESPECIALLY FOR FLAT TELEVISION OR COMPUTER SCREENS	GRABANJA BOGDAN HAZANA HRISTOF SMIESZEK WLODZIMIERZ	
7	EP1891257	20080123	Supporting arm with a suction cup and a holder for attaching various equipment within the mechanical vehicles	BURY SP Z O O	
8	DE202007015515	20080110	Lighting mechanism for a motor vehicle (Machine Translation)	KYE SYSTEMS CORP	
9	DE202007014546	20071227	A structure of a digital camera (Machine Translation)	YANG YAN	
10	WO2008004759	20080110	DISPLAY DEVICE	JANG WOON GEUN KIM MUN HWAN LG ELECTRONICS INC	
11	CA2551182	20071228	A SINGLE-HAND OPERATED GRIPPING MEANS FOR AN ADJUSTABLE POSITION MODULE ON A VERTICAL POLE	SUNDERLAND MARK DO EUN JAE HAN SUNG MIN JANG WOON GEUN LEE SI HANN LG ELECTRONICS CO LTD	
12	WO2008002008	20080103	STAND AND DISPLAY DEVICE USING THE SAME		

Results:

Section V: Analyzing Results

To conduct quick statistical analysis on a result set, the ANALYZE feature allows you to locate the most frequently occurring assignee names or classification codes. The results may then be used to further refine your search strategy. ANALYZE performs a frequency count of 500 randomly selected records from your result set. If your set is less than 500 records then all records will be included in the analysis.

Analyze Top European Classifications:

Available from search results conducted in FamPat, PlusPat and French patents. This feature will produce a list of the most frequently occurring ECLAs in your search set.

*Please note: Most records in FamPat and PlusPat have ECLAs, but recent publications may not yet have been classified by the EPO examiners. Additionally, Japanese publications in FamPat and PlusPat typically **do not** have ECLAs; instead, you may use the Analyze Top International Classes to analyze Japanese results. As well, most French publications **will** have ECLAs assigned.*

From the results page, from the analyze menu:

The screenshot displays the QPAT software interface. On the left is a navigation menu with sections: Search, My session, My tools, My portfolio, My settings, and Support. The main area shows search results for the query: ((COLLAPS+ OR FOLD+ OR FLIP+) 3D (KEYBOARD+ OR (KEY BOARD+))). The results table has columns: #, FamPat family, Date, Title, Assignee, and Image. A dropdown menu is open from the 'Analyze' button, showing options: Top Assignees, Top European Classes (highlighted), Top US Classes, and Top International Classes. The results table lists 16 records, with titles and assignees related to keyboards and electronic devices.

#	FamPat family	Date	Title	Assignee	Image
1	US20080074295	20080327	Handheld Electronic Device and Keyboard Having Multiple-Function Keys		
2	EP1898347	20080312	Handheld electronic device having service-specific message management feature support and associated method	RES IN MOTION LTD	
3	CN101135932	20080305	The fission type laptop may fold the soft keyboard [Machine Translation]	CHEN XU [machine translation]	
4	USD563407	20080304	Folding keyboard	JAWERTH BJORN MEHTA VIRAJ	
5	USD562321	20080219	Folding keyboard	JAWERTH BJORN MEHTA VIRAJ	
6	CN101101513	20080109	The foldaway keyboard [Machine Translation]	LI [machine translation]	
7	CN200979684	20071121	A foldable tablet keyboard	HANVON CORP	
8	US2008025780	20080131	INFLATABLE KEYBOARD	HON HAI PREC IND CO LTD HON HAI PRECISION INDUSTRY CO LTD [machine translation] HONG FU JIN PREC INDUSTRY SHEN HONG FU JIN PRECISION INDUSTRY (SHENZHEN) CO LTD	
9	US2007296705	20071227	MINIATURE KEYBOARD FOR A HAND HELD COMPUTER	PALM INC	
10	CN101060545	20071024	Foldable keyboard type game mobile phone	LG ELECTRONICS CHINA RES & DEV	
11	US2007290890	20071220	FOLDABLE KEYBOARD	DARFON ELECTRONICS CORP	
12	CN200959114	20071010	Foldable keyboard	DAFANG ELECTRONICS CO LTD	
13	CN101025277	20070829	Kitchen hood with computer	WANG TIELIANG	
14	CA2548924	20071104	ULTRA HANDHELD INTERNET PORTABLE(U-HIP)	GRAY STEPHEN G	
15	JP2007256739	20071004	OPENING/CLOSING DEVICE OF KEYBOARD LID	CASIO COMPUTER CO LTD	
16	JP2007233212	20070913	ELECTRONIC KEYBOARD MUSICAL INSTRUMENT	YAMAHA CORP	

After the analysis is conducted, you may then select any or all of the ECLAs, to either expand or limit the previous search, or you may use the selected ECLAs to conduct a new search.

QPAT Version 6.5b

Hitlist | Printer friendly

Analyze
TOP 15 ECLA codes analysis

Please select the European Codes you want to use to refine your search.

Select All | None

Frequency	ECLA codes
<input type="checkbox"/>	98 G06F-003/02A6
<input type="checkbox"/>	59 G06F-001/16P2K4
<input type="checkbox"/>	40 G06F-001/16P3
<input type="checkbox"/>	28 G06F-001/16P6
<input type="checkbox"/>	23 G06F-003/02A
<input type="checkbox"/>	19 G06F-001/16P2
<input type="checkbox"/>	18 H04M-001/23
<input type="checkbox"/>	13 H01H-01/3/702
<input type="checkbox"/>	13 H04M-001/02A2P
<input type="checkbox"/>	11 H01H-01/3/70
<input type="checkbox"/>	10 G06F-001/16P2S
<input type="checkbox"/>	10 G10H-001/32
<input type="checkbox"/>	10 H04M-001/02A2B4
<input type="checkbox"/>	9 G06F-001/16P2D
<input type="checkbox"/>	9 G06F-001/16P2S2

Ok
Cancel

☒ Refine previous search
☐ Extend to selected classes
☐ Limit to selected classes

The definitions of the ECLAs may be found by clicking on the classifications in the table.

QPAT Version 6.5b

Hitlist | Printer friendly

Analyze
TOP 15 ECLA codes analysis

Please select the European Codes you want to use to refine your search.

Select All | None

Frequency	ECLA codes
<input type="checkbox"/>	98 G06F-003/02A6
<input checked="" type="checkbox"/>	59 G06F-001/16P2K4

Ok
Cancel

Definition [C] G PHYSICS
 [C] G06 COMPUTING; CALCULATING; COUNTING
 [SC] G06F ELECTRICAL DIGITAL DATA PROCESSING
 [00] G06F-001/00 Details of data-processing equipment not covered by groups G06F-001/00 to G06F-001/00 [EPO: e.g. cooling, packaging, power supply, specially adapted for computer application] [C0702];
 [01] G06F-001/16 Constructional details or arrangements;
 [02] G06F-001/16P [EPO: for portable computers] [C0108];
 [03] G06F-001/16P2 [EPO: with folding flat displays, e.g. laptop computers];
 [04] G06F-001/16P2K [EPO: details related to the integrated keyboard] [N0108];
 [05] G06F-001/16P2K4 [EPO: Arrangements for reducing the size of the integrated keyboard for transport, e.g. foldable keyboards, keyboards with collapsible keys] [N0108]

Analyze Top US Classes:

Available for search results from FamPat or PlusPat. This feature will produce a list of the most frequently occurring Original US Patent Classifications in your search results. As with the ECLA feature you may then look up the definitions by clicking on the class in the table. By checking the box next to the code(s) and clicking USE Codes at the bottom of the list you may use the selected codes in a new search.

Please Note: You may improve your analysis of US Classes in FamPat or PlusPat by limiting your initial search to US publications only. This is accomplished by entering the country code US in the Publication number or Publication country text-entry box.

Analyze Top International Classes:

Available for search results from all databases. This feature produces the most frequently occurring IPCs in your search results. As with the ECLA feature you may then look up the definitions by clicking on the class in the table. By checking the box next to the code (s) and clicking USE Codes at the bottom of the list you may use the selected codes in a new search.

Please Note: Most records in all databases have been assigned an IPC. However, IPCs are not retrospectively updated and applied when new IPC editions are published (every five years). It is therefore possible that some classifications on the list may no longer be in use.

To limit your initial search to Japanese records, enter the search term JP in the Limit by Patent Number field.

Analyze Top Assignees:

Available for search results from all databases. This feature produces the most frequently occurring assignees in your search results. Checking the box next to the Assignee name and clicking Use Assignees at the bottom of the list will allow you to use the selected company names in a new search.

Please Note: Assignee names are not standardized. Analyze Top Assignees will show the most frequently occurring versions of assignee names within your specific result set. Please also be aware that US published applications frequently do not list an assignee name.

Section VI: Family Searching

Using FamPat for Family Searching

An applicant seeking protection for an invention must file for a patent in each country where patent protection is desired. The worldwide applications and publications for an invention are collectively known as a patent family. Typically, the applicant files for a patent first in his own country. Subsequent applications in other countries will claim priority rights based on this original application and filing date. The application number and filing date for the original application are called the priority number and priority date.

Records in the FamPat database combine together all publication stages of the family. Questel-Orbit has developed a family definition which incorporates the EPO's strict family rule which states that all priority information must be exactly the same. However, because of different patenting authority definitions of invention, FamPat has incorporated some additional rules. The FamPat family is single invention specific.

Extended Family Searching

An extended (Inpadoc) family search retrieves all documents that share at least one common priority number. Especially with large families, the extended family may not be specific to only a single invention.

To initiate an extended patent family search, you should click on the Family (extended) Search. The Patent Family Search screen appears below. Enter any one of the following: a publication number, application number, or priority number. You can display legal status, abstracts, and citations by clicking the appropriate boxes.

QPAT
Version 6.2

Logoff

Search

- Patent
- Quick
- Family (extended)
- Citation
- Similarity

My session

- Refine last search
- Search history
- View session log
- Cost estimator

My tools

- My saved sessions
- My saved searches
- My alerts

My portfolio

- Order patent copies
- My patent copies
- My workfiles

My settings

- User settings
- Sub account
- Change password

Support

- User Guide
- Incident report
- Help Desk
- Coverage and information

Patent Family Search
Search extended (Inpadoc) families

Application or priority: 2005us-0038590 e.g.: US5000000 ?

Publication number

Application number

Priority number

☒ Include Legal Status ?

☐ Include Legal Status, Abstracts and Citations

Collection: Worldwide patents FamPat ?

Search

Clear

Help

Questel

Displaying an Extended Patent Family

The default display option includes legal status. The displayed table summarizes all the foreign Equivalents, grouped in FamPat families, of the publication followed by each family record with legal status information.

QPAT Version 6.5b Logout

Printer friendly | Export | Highlight

Search

- Express
- Advanced
- Similarity
- Extended Family
- Citations

My session

- Refine last search
- Search history
- View session log
- Cost estimator

My tools

- My saved sessions
- My saved searches
- My alerts

My portfolio

- Order patent copies
- My patent copies
- My workflows

My settings

- User settings
- Sub account
- Change password

Support

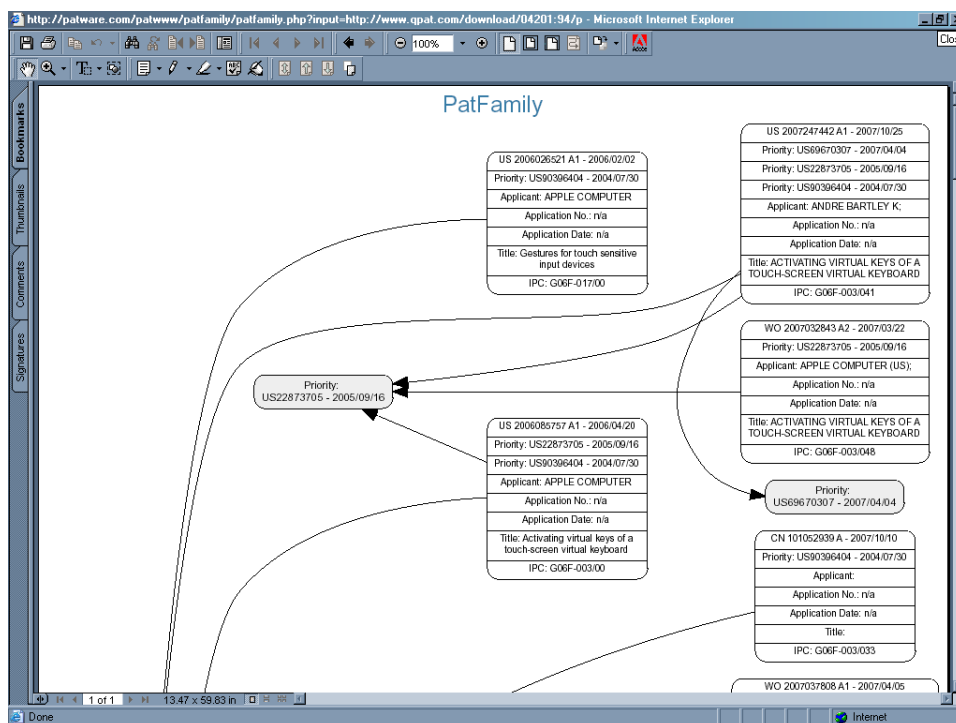
- User Guide
- Incident report
- Help Desk
- Coverage and information

Extended family search results
Search: (EP1774427) JPN/JPN

[Graph this family](#)

#	Patent Number	Kind	Date	Application No	Date
1	CA2318815	A1	19990729	1999CA-2318815	19990125
	WO9938149	A1	19990729	1999WO-US01454	19990125
	AU2467399	A	19990809	1999AU-0024673	19990125
	EP1058924	A1	20001213	1999EP-0904228	19990125
	IL137478	D0	20010724	1999IL-0137478	19990125
	US6323846	B1	20011127	1999US-0236513	19990125
	JP2002501271	T	20020115	2000JP-0528974	19990125
	US2002015024	A1	20020207	2001US-0919266	20010731
	AU759440	B2	20030417		
	CA2318815	C	20040810		
	US6888536	B2	20050503		
	EP1058924	A4	20050824		
	IL137478	A	20051120		
	KR20060053012	A	20060519	2006KR-7006419	20060331
	KR20060053011	A	20060519	2006KR-7006416	20060331
	KR20060053010	A	20060519	2006KR-7006412	20060331
	KR20060058732	A	20060530	2006KR-7006421	20060331
	KR20060058731	A	20060530	2006KR-7006420	20060331
	KR20060058784	A	20060530	2006KR-7006413	20060331
	KR20060059265	A	20060601	2006KR-7006418	20060331
	KR20060059264	A	20060601	2006KR-7006417	20060331
	KR20060059263	A	20060601	2006KR-7006415	20060331
	JP2007184008	A	20070719	2007JP-0098909	20070404
	JP2007184007	A	20070719	2007JP-0098980	20070404
	JP2007184006	A	20070719	2007JP-0098983	20070404
	JP2007193840	A	20070802	2007JP-0098988	20070404
	JP2007213599	A	20070823	2007JP-0098913	20070404
	JP2007226820	A	20070906	2007JP-0098955	20070404
	JP2007242035	A	20070920	2007JP-0098979	20070404
2	EP1621989	A2	20060201	2005EP-0254654	20050727
	WO2006020305	A2	20060223	2005WO-US25657	20050719
	EP1621989	A3	20060517		

In addition to the table display summary, a new graphical extended family display has been added. The Graph this family option generates a PDF file graphing the patent family publications by year as well as showing links from the publications to priority numbers.



Section VII: Citation Searching

What is a Citation?

When a patent is published it includes a list of citations to previously published patents and literature. This cited art has some direct relevance, in terms of novelty, obviousness, or state-of-the-art, to one or more claims in the patent. Patent applicants and patent examiners will assign patent citations.

What is a Citation Search?

A citation search is a specific subject search of the technology that is closely related to a published patent. The backward citation search will retrieve the prior art that is cited on the patent. The forward citation search will retrieve all the subsequently published patents that cite the patent. In QPAT, there are citations available for patent publications from DE, EP, FR, GB (from 1980), JP, US (from 1970), and WO (PCT).

Why do a Citation Search?

A **backward** citation search is a typical place to start a validity search.

A **forward** citation search is a typical place to look for patent infringement.

A **backward and forward** citation search together creates a very precise subject search from the starting point of a single patent number.

QPAT automatically defaults to searching both the forward and backward citations. If only one type of citations (backward or forward) is desired, it is necessary to uncheck the unwanted citation type. The same applies if the original patent is not to be displayed.

QPAT
Version 6.5b

Search

- Express
- Advanced
- Similarity
- Extended Family
- Citations

My session

- Refine last search
- Search history
- View session log
- Cost estimator

My tools

- My saved sessions
- My saved searches
- My alerts

My portfolio

- Order patent copies
- My patent copies
- My workfiles

My settings

- User settings
- Sub account
- Change password

Support

- User Guide
- Incident report
- Help Desk
- Coverage and information

Patent Citation Search
Search patent cited references

Publication number: JP05313004 e.g.: EP-123456

Application number: ☐ Backward

Priority number: ☐ Forward

Application or priority: ☐ Include original patent in result

☒ Display family citation and optional PatCitation report

Search

Clear

Help

Collection: Worldwide patents FamPat

Questel

A citation report, incorporated with family information, is available with this display. The report displays in three parts. Links to each division of the report are found at the beginning of each section.

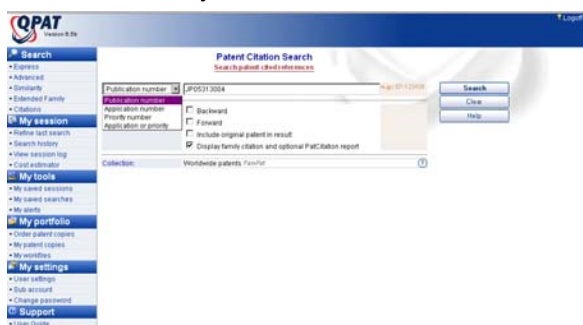
Original Source Family

Citing Patent Families (families with a patent citing a member of the source family)

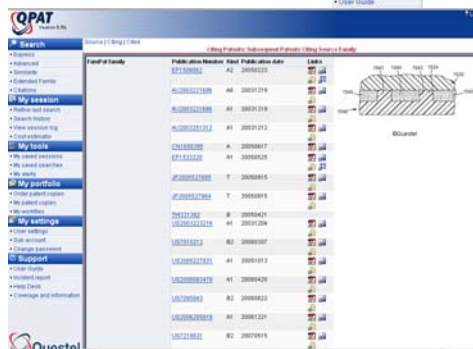
Cited Patent Families (families with a patent cited by a member of the source family)

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

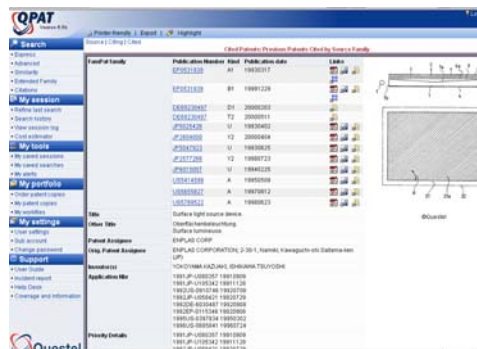
- | | |
|--------------------|--|
| • Patent Number | Number and date of publication of all members |
| • Title | English title of the first member |
| • Other Title | Non-English title of the first member |
| • Patent Assignee | Assignee(s) of the first member |
| • Inventor | Inventor(s) of the first member |
| • Application Nbr | Application numbers of all members |
| • Priority Details | Priority numbers of all members |
| • Citations | Citations of members for DE EP FR GB JP US & WO publications |
| • Abstract | Summary of the invention |



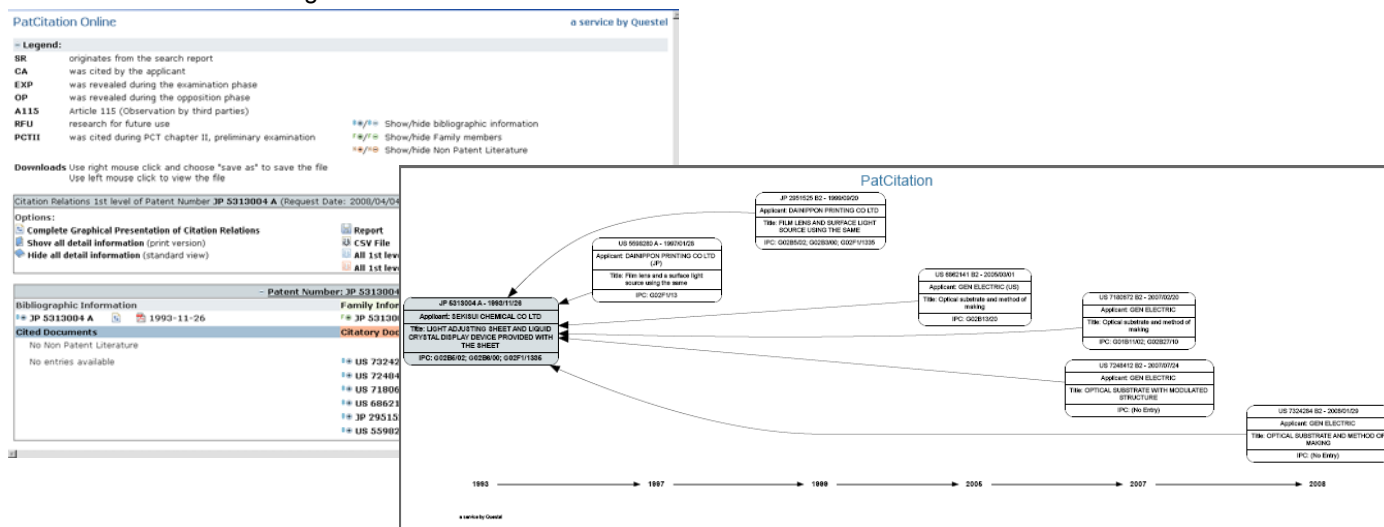
Citing:



Cited:



PatCitation Report: Cited and citing patents with bibliographic information. Citation graph showing all citation relations along a timeline



Section VIII – Printer Friendly, Exporting, & Other Features

Printer Friendly

The Printer friendly option is now available from the Hit List. You may now elect print the hit list, folded or unfolded, by selecting the printer friendly option.

QPAT Version 6.5b

Display: [Printer friendly](#) | [Export](#) | [Order copy](#) | [Add to a workflow](#) | [Highlight](#) | [Create an alert](#) | [Analyze](#)

Search: ER MEM QPAT1, ER MEM QPAT2, ((JP05313004)/PNXPN; MEM QPAT1 XCT; MEM QPAT2 XPN; ((JP05313004)/PNXPN) OR (*MEM QPAT1 XPN) OR (*MEM QPAT2 XCT) NOT XPIPN;

Records: 1-160 of 160 Page: 1 Show: 200 records per page

#	Pat family	Date	Title	Assignee	Image
1	US2007247872	20071025	Backlight unit and display device employing the same	SAMSUNG ELECTRONICS CO LTD	
2	US2006285816	20061221	Multifunctional Optical Assembly	3M INNOVATIVE PROPERTIES CO	
3	US2006256444	20061116	OPTICAL SUBSTRATE AND METHOD OF MAKING	GEN ELECTRIC	
4	US2005099823	20050512	Backlight assembly of liquid crystal display	LG ELECTRONICS INC LG ELETRONICS CO LTD	
5	US2005206805	20050922	Back light assembly and liquid crystal display device having the same	BANG CHANG-YOUNG JUNG JAE-HO LEE JEONG-HWAN LEE KEUN-WOO LEE TAE-JIN PARK JONG-DAE SAMSUNG ELECTRONICS CO LTD	
6	US2001055078	20011227	Liquid crystal display device having a light guiding plate with a novel structure	SAMSUNG ELECTRONICS CO LTD	
7	US2006158592	20060720	OPTICAL SUBASSEMBLY COMPRISING PRE-STACKED OPTICAL FILMS, AND OPTICAL DISPLAY COMPRISING SAME	3 M INNOVATION COMPANY [machine translation] 3M INNOVATIVE PROPERTIES CO FREKING ANTHONY J KOTCHICK KEITH M MARUSHIN PATRICK H RUEGSEGGER MICHAEL L	
8	US2006114563	20060601	OPTICAL FILM WITH CO-CONTINUOUS PHASES	3M INNOVATIVE PROPERTIES CO	
9	US2003164914	20030904	Brightness enhancing reflective polarizer	3M INNOVATIVE PROPERTIES CO	
10	US2006109687	20060525	PRISM SHEET FOR BACKLIT DISPLAY THAT REDUCES MOIRE INTERFERENCE	3M INNOVATIVE PROPERTIES CO CAMPBELL ALAN B	
11	US2003043315	20030306	Liquid-crystal display device	NITTO DENKO CORP	

The results will display in a separate window; then use your browser for more options:

http://www.qpat.com - Hitlist - Mozilla Firefox

File Edit View History Bookmarks Tools Help

ad Stop Home Google

Search: ER MEM QPAT2, ((JP05313004)/PNXPN; MEM QPAT1 XCT; MEM QPAT2 XPN; ((JP05313004)/PNXPN) OR (*MEM QPAT1 XPN) OR (*MEM QPAT2 XCT) NOT XPIPN;

Page: 1

Date	Title	Assignee	Image
20071025	Backlight unit and display device employing the same	SAMSUNG ELECTRONICS CO LTD	
20061221	Multifunctional Optical Assembly	3M INNOVATIVE PROPERTIES CO	
20061116	OPTICAL SUBSTRATE AND METHOD OF MAKING	GEN ELECTRIC	
20050512	Backlight assembly of liquid crystal display	LG ELECTRONICS INC LG ELETRONICS CO LTD	
20050922	Back light assembly and liquid crystal display device having the same	BANG CHANG-YOUNG JUNG JAE-HO LEE JEONG-HWAN LEE KEUN-WOO LEE TAE-JIN PARK JONG-DAE SAMSUNG ELECTRONICS CO LTD	
6	US2001055078	20011227	Liquid crystal display device having a light guiding plate with a novel structure
7	US2006158592	20060720	OPTICAL SUBASSEMBLY COMPRISING PRE-STACKED OPTICAL FILMS, AND OPTICAL DISPLAY COMPRISING SAME
8	US2006114563	20060601	OPTICAL FILM WITH CO-CONTINUOUS PHASES
9	US2003164914	20030904	Brightness enhancing reflective polarizer
10	US2006109687	20060525	PRISM SHEET FOR BACKLIT DISPLAY THAT REDUCES MOIRE INTERFERENCE
11	US2003043315	20030306	Liquid-crystal display device

Exporting Results Display

QPAT permits you to export from the hit list whichever records have been selected from any record view. Put into practice: if records 1-200 have been selected, then 200 records will be exported. When 2 records have selected, only those 2 records will be exported. After selecting the records, click on the Export button to start the exporting process.

QPAT Version 6.5b

Display • Printer friendly | Export • Order copy • Add to a workflow | Highlight | Create an alert | Analyze

Search: ER MEM QPAT1; ER MEM QPAT2; (JP05313004) /PN/XP; MEM QPAT1 /XCT; MEM QPAT2 /XCT; ((JP05313004) /PN/XP) OR (*MEM QPAT1 /XPN) OR (*MEM QPAT2 /XCT) NOT XP/PN;

Records: 1-160 of 160 Page: 1 Show: 200 records per page

#	FamPat family	Date	Title	Assignee	Image
1	US2007247872	20071025	Backlight unit and display device employing the same	SAMSUNG ELECTRONICS CO LTD	
2	US2006285816	20061221	Multifunctional Optical Assembly	3M INNOVATIVE PROPERTIES CO	
3	US2006256444	20061116	OPTICAL SUBSTRATE AND METHOD OF MAKING	GEN ELECTRIC	
4	US2005099823	20050512	Backlight assembly of liquid crystal display	LG ELECTRONICS INC LG ELECTRONICS CO LTD	
5	US2005206805	20050922	Back light assembly and liquid crystal display device having the same	BANG CHANG-YOUNG JUNG JAE-HO LEE JEONG-HWAN LEE KEUN-WOO LEE TAE-JIN PARK JONG-DAE SAMSUNG ELECTRONICS CO LTD	
6	US2001055078	20011227	Liquid crystal display device having a light guiding plate with a novel structure	SAMSUNG ELECTRONICS CO LTD	
7	US2006158592	20060720	OPTICAL SUBASSEMBLY COMPRISING PRE-STACKED OPTICAL FILMS, AND OPTICAL DISPLAY COMPRISING SAME	3 M INNOVATION COMPANY (machine translation) 3M INNOVATIVE PROPERTIES CO FREKING ANTHONY J KOTCHICK KEITH M MARUSHIN PATRICK H RUEGSEGER MICHAEL L	
8	US2006114563	20060601	OPTICAL FILM WITH CO-CONTINUOUS PHASES	3M INNOVATIVE PROPERTIES CO	
9	US2003164914	20030904	Brightness enhancing reflective polarizer	3M INNOVATIVE PROPERTIES CO	
10	US2006109687	20060525	PRISM SHEET FOR BACKLIT DISPLAY THAT REDUCES MOIRE INTERFERENCE	3M INNOVATIVE PROPERTIES CO CAMPBELL ALAN B	
11	US2003043315	20030306	Liquid-crystal display device	NITTO DENKO CORP	

Questel

Select file format. As shown below, the default template is Classical. You may select your file format and elect to include key content, claims, descriptions, or legal status. After making your selections, click OK.

Export

Template: ☒ Classical ☐ First page style

File type: ☒ With images

Data: ☐ Key content ☐ Claims ☐ Description ☐ Legal status

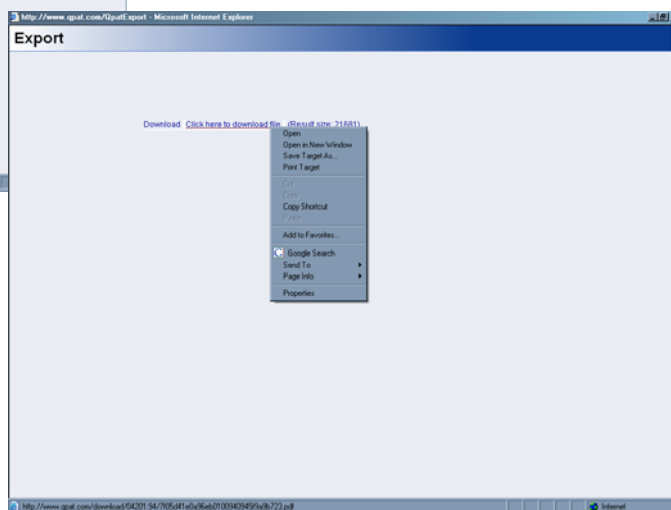
Delivery: ☐ Zipped file ☐ by e-mail

from:

(for multiple results use a semicolon between each address)

OK Cancel

Right click on the link.
Use "Save Target As..." or "Save Link As..." option



Exporting after View Selected Records

Individual records displayed with your pre-defined format, may be exported by clicking on Export this document. To export multiple documents within the view, check the box found at the top of each record as you navigate through your results.

The screenshot shows the QPAT Version 5.5b interface. On the left is a navigation menu with sections: Search, My session, My tools, My portfolio, My settings, and Support. The main area displays a list of patent records for 'Family Accession Nbr 20062780225624'. The records include publication numbers, kinds, and dates. To the right of the list is a technical drawing of a backlight assembly with various components labeled with numbers like 300, 340, 344, 346, 310, 314, 500, 510, 520, 530, 540, and 550. The drawing is credited to Questel.

Publication Number	Kind	Publication date	Links
US2005099823	A1	20050512	
STG:		Utility Patent Application published on or after January 2, 2001	
AP:		2004US-0949243 20040927	
KR20050045602	A	20050517	
STG:		Unexamined patent application 2003KR-0079740 20031112	
AP:		2003KR-0079740 20031112	
CN1617026	A	20050518	
STG:		Unexamined application 2004CN-0095783 20041112	
AP:		2004CN-0095783 20041112	
JP2005150116	A	20050809	
STG:		Doc. Laid open to publ. Inspec. 2004JP-0329627 20041112	
AP:		2004JP-0329627 20041112	
US7303323	B2	20071204	
STG:		U.S. Patent (with pre-grant pub.) after Jan. 2, 2001	

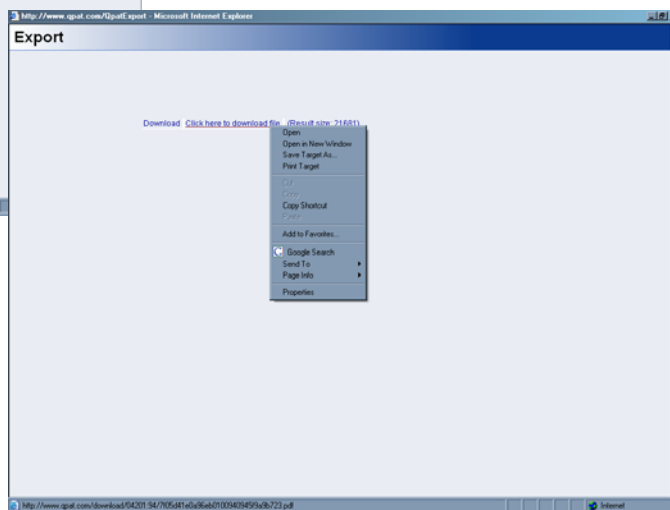
Title: Backlight assembly of liquid crystal display
Patent Assignee: LG ELECTRONICS INC, LG ELETRONICS CO LTD

You may then simply:

- Select file format.
- Select options as necessary.
- Click on OK.

The screenshot shows the 'Export' dialog box in the QPAT interface. It has sections for Template (Classical, First page style), File type (Acrobat (.pdf), Text (.txt), Word (.doc), Excel compliant (.xls), Full XML (.xml)), Format (Document), Include (Key content, Claims, Description, Legal status), and Delivery (Zipped file, by e-mail). The 'by e-mail' option is selected, and the email address 'clients@questel.it' is entered. The 'OK' button is highlighted.

Right click on the link.
Use "Save Target As..." or "Save Link As..." option



Exported Results Options

The default template is Classical, and a variety of formats are available: TXT (ASCII), Acrobat (PDF), and Word (RTF). EXCEL (XLS) and FULL XLM (XML) exports are available as well.

Export

Template

☒ Classical ☐ Excel ☐ XML ☐ First page style

File type: Acrobat (.pdf) Text (.txt) Acrobat (.pdf) Word (.rtf)

☐ With page break between records

Data

Format: Document

Include

☐ Key content ☐ Claims ☐ Description ☐ Legal status

☒ With images

Delivery

☐ Zipped file

☐ by e-mail:

from: clients@questel.com

to: requestor@corporation.com

(for multiple emails use a semicolon between each address)

OK Cancel Help

You may export results in different display formats; include the key content, claims, description OR legal status, You may elect to have a page break between records; Images may be exported (Images not supported with TXT).

Export

Template

☒ Classical ☐ Excel ☐ XML ☐ First page style

File type: Acrobat (.pdf)

☐ With page break between records

Data

Format: Document

Include

☐ Claims ☐ Description ☒ Legal status

Delivery

☐ Zipped file

☐ by e-mail:

from: clients@questel.com

to: requestor@corporation.com

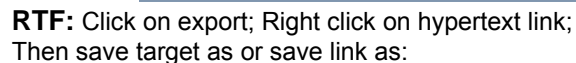
(for multiple emails use a semicolon between each address)

OK Cancel Help

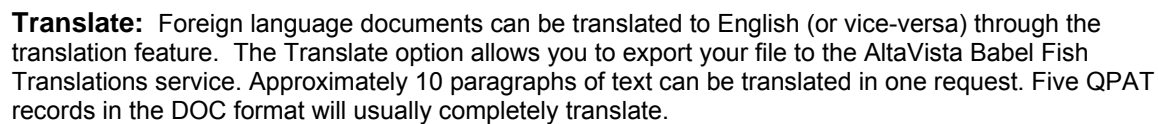
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To display or export your entire QPAT session from the QPAT toolbar click on View Session Log. The Session Log displaying the session history. This feature is useful if you have conducted multiple searches in a single session or have elected to display additional views from your hit list display and would like to include the results in your search session. After clicking on the gray Export button, you may then select your export options.



The screenshot shows a web browser window with the address bar displaying 'http://www.splint.com/Scroll(0,100,10) - Microsoft Internet Explorer'. The main content area has a blue header with the text 'Scroll Session Export'. Below the header, there is a search bar with the text 'Enter' and a red text 'Download scroll(0, 100, 10)'. A context menu is open over the red text, showing the following options: 'Open in New Window', 'Save', 'Print Target...', 'Print Target', 'Copy Shortcut', 'Add to Favorites', 'Single Search', 'Send To', 'Page Info', and 'Printout'.



Highlight Tool

In addition to the automatic highlighting of search terms with bold type and up to four colored backgrounds, QPAT offers a tool for user-defined highlighting. This tool is very useful for analyzing the details in the text of the document. It allows you to highlight any additional terms, beyond the original search terms, in a variety of colors. These additional terms appear highlighted with the chosen background color.

QPAT
Version 6.5b

Hitlist | Printer friendly | Export this document | Add to a workflow | Highlight | << Previous | Next >>

First Page | Image | Key content | Claims | Description | Extended Family | Legal Status

Patent Number: US2008057890 A1 20080306

6 / 42

Family Accession Nbr: 20080700026477

FamPat family

Publication Number	Kind	Publication date	Links
US2008057890	A1	20080306	
STG:		Utility Patent Application published on or after January 2, 2001	
AP:		2006US-0513616 20060830	
WO2008027834	A1	20080306	
STG:		Publ. Of int. Appl. With int. Search rep 2007WO-US76889 20070827	

Title: Automated pairing of wireless accessories with host devices

Patent Assignee: APPLE COMPUTER, APPLE INC, MCKILLOP CHRIS, WIEBE CHRIS

Orig. Patent Assignee: Apple Computer, Inc. [US]

Inventor(s): MCKILLOP CHRIS, WIEBE CHRIS

Priority Details: 2006US-0513616 20060830

IPC: H04B-001/18, H04M-001/72, H04M-001/725

IPC Advanced All: H04B-001/18 [2006-01 A F I B H US]

IPC Core All: H04B-001/18 [2006 C F I B H US]

ECLA: H04M-001/725F1B1

US Class: ORIGINAL (O) : 4551851

Abstract: n is 2008057890

Diagram: 100, 104, 106, 102, LOCAL WIRELESS NETWORK, WIRELESS ACCESSORY DEVICE, WIRELESS ACCESSORY DEVICE, ©Questel

Click on Highlight to open the user defined highlighting window.

Select the colors for highlighting by checking the boxes next to the desired colors. Enter the terms in each of the boxes alongside the chosen colors. All of the truncation symbols may be used with the highlighting: left-hand, right-hand and internal truncation. To apply the selected color highlighting, click on the button OK. The highlighting selection will be saved after logoff.

http://www.qpat.com - Questel QPAT - Mozilla Firefox

Extended highlight

Please enter up to 6 terms to highlight:

<input checked="" type="checkbox"/>	hand held hand?held handheld	Ex: Bicycl+
<input checked="" type="checkbox"/>	mobile portabl+	Ex: -inflammatory
<input checked="" type="checkbox"/>	touchscreen+ touch?screen+ touchsens+ touch?sens+	Ex: polymer#ation
<input checked="" type="checkbox"/>	duplex+ duplex+	Ex: tire+ tyre+ wheel+
<input checked="" type="checkbox"/>	wireless wire?less	Ex: Cold cool+ freez+
<input checked="" type="checkbox"/>	media	Ex: -digest+

OK Cancel

The color selections apply to all records and formats in the result set. This highlighting functions with simple terms. It does not function with expressions or phrases, i.e. highlighting is not restricted to where the search terms are adjacent. For example, if you enter the phrase HAND HELD? in one of the color boxes, the individual words “TOUCH” and “SCREEN” will have the chosen background color everywhere they appear, alone or together as a phrase.

The screenshot shows the QPAT Version 6.5b software interface. The top navigation bar includes links for Hitlist, Printer friendly, Export this document, Add to a workfile, Highlight, Previous, and Next. The left sidebar contains a 'Search' section with options like Express, Advanced, Similarity, Extended Family, and Citations. Below this are sections for 'My session', 'My tools', 'My portfolio', 'My settings', and 'Support'. The main content area displays a patent document with search results highlighted in green. The document includes sections for 'Advantages / Prev. Drawbacks', 'Independent Claims', and a list of claims. The search results are highlighted in green, showing terms like 'touch sensor', 'touch sensing', 'touch screen', 'sense', 'handheld', 'media', and 'mobile'.

The Cancel button does not modify or remove the highlighting selections. Clicking on the cancel button only closes the highlighting window.

If you wish to remove the color selections, you need to uncheck all boxes alongside the color selections.

In contrast to the automatic bold type and background highlighting, user-defined color highlighting:

- Does not provide a clickable link to the next appearance of the search term.
- Applies to all the parts of the document and not only those fields selected in the search screen.

The various color selections for the user-defined highlighting and the backgrounds for the automatic highlighting are not retained for the printing and exporting of the records.

Patent Copies

Copies of the patent documents are available in the Portable Document Format (PDF). After conducting a search in QPAT and displaying the results, Acrobat icons will appear to the right of publication numbers. Clicking on the Acrobat icon initiates the order process.

The screenshot shows the QPAT interface with the following details:

- Search** menu: Express, Advanced, Similarity, Extended Family, Citations.
- My session** menu: Refine last search, Search history, View session log, Cost estimator.
- My tools** menu: My saved sessions, My saved searches, My alerts.
- My portfolio** menu: Order patent copies, My patent copies, My workfiles.
- My settings** menu: User settings, Sub account, Change password.
- Support** menu: User Guide, Incident report, Help Desk, Coverage and information.

Patent Details:

- Family Accession Nbr:** 20073010011987
- Publication Number:** USD553129
- Kind:** S1
- Publication date:** 20071016
- STG:** Design Patent (no pre-grant pub.) issued after Jan. 2, 2001.
- AP:** 2005US-F237232
- USD562848:** S1, 20080226
- STG:** Design Patent (no pre-grant pub.) issued after Jan. 2, 2001.
- AP:** 2007US-F281264
- FD:** 20070619
- FD:** Divsn of US29237232
- FD:** [2005US-0237232]
- FD:** Division of USD553129
- Title:** Handheld portable computing device
- Patent Assignee:** APPLE INC
- Orig. Patent Assignee:** Apple Inc., Cupertino CA [US]
- Inventor(s):** ANDRE BARTLEY K; COSTER DANIEL J; DE IULIIS DANIELE; HOWARTH RICHARD P; IVE JONATHAN P; JOBS STEVE; KERR DUNCAN ROBERT; NISHIBORI SHIN; ROHRBACH MATTHEW DEAN; SATZGER DOUGLAS B; SEID CALVIN Q; STRINGER CHRISTOPHER J; WHANG EUGENE ANTONY; ZORKENDORFER RICO
- Priority Details:** 2006US-F237232 20050824, 2007US-F281264 20070619
- US Class:** ORIGINAL (O): D14341000
- Abstract:** (USD562848) FIG. 1 is a perspective view of a handheld portable computing device in accordance with the present design.

If you have elected in your User Settings to view documents ON THE FLY, a separate window will open containing the full-text PDF copy of the publication.

The screenshot shows a PDF document with the following content:

United States Design Patent (10) **Patent No.:** US D553,129 S
Andre et al. (45) **Date of Patent:** ** Oct. 16, 2007

(54) HANDHELD PORTABLE COMPUTING DEVICE

(75) Inventors: Bartley K. Andre, Menlo Park, CA (US); Daniel J. Coster, San Francisco, CA (US); Daniele De Iulius, San Francisco, CA (US); Richard P. Howarth, San Francisco, CA (US); Jonathan P. Ive, San Francisco, CA (US); Steve Jobs, Palo Alto, CA (US); Duncan Robert Kerr, San Francisco, CA (US); Shin Nishibori, San Francisco, CA (US); Matthew Dean Rohrbach, San Francisco, CA (US); Douglas B. Satzger, Menlo Park, CA (US); Calvin Q. Seid, Palo Alto, CA (US); Christopher J. Stringer, Portola Valley, CA (US); Eugene Antony Whang, San Francisco, CA (US); Rico Zorkendorfer, San Francisco, CA (US)

(73) Assignee: Apple Inc., Cupertino, CA (US)

() Term:** 14 Years

(21) Appl. No.: 29/237,232

(22) Filed: Aug. 24, 2005

(51) LOC (8) CL: 14-02

(52) U.S. CL: D14/341

(58) Field of Classification Search: D14/341-346, D14/496, 138, 156; D18/1, 2, 7, 11; D41/22

OTHER PUBLICATIONS

U.S. Appl. No. 29/237,096, filed Aug. 24, 2005.

Primary Examiner: Freda S. Nunn
(74) Attorney, Agent, or Firm: Beyer Weaver LLP

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From the QPAT toolbar, select Order patent copies. In this way you can request dozens of documents at one time and the PDF copies will be automatically retrieved and archived in your portfolio. The portfolio allows you to effectively manage and distribute your patent documents.

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- Do not enter Publication Kind or Status Codes (A, B, etc.) with number. (See *Exceptions)
FR2794443
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WO200112345, JP2001053423
- Use two-digit year with patent numbers that include year and are published < 2000 .
WO9912345
- For numbers less than seven digits long, left fill with dashes until a length of seven is reached.
EP—22345
- Enter multiple patent numbers separated by commas.
FR2794443, CA2278948

*Exceptions for Kind Codes

- **For EP publications:** when kind code is A3, A4, B1 or B2, attach kind code to the patent number.
A3 Search Report: **EP1303142A3**
A4 Supplemental Search Report: **EP1305164A4**
B1 Granted Patent: **EP--156415B1**
B2 Patent After Modification: **EP-929467B2**
- **For DE publications:** when the kind code has a first character of B or C, attach kind code to the patent number.
B Published Patent Application: **DE1588442B**
C Published Patent: **DE19918053C**
- **For WO publications:** when the kind code is A3, attach kind code to the patent number.
A3 Subsequent Publication of International Search Report: **WO200269126A3**
- **For US Design publications:** when the kind code is D, attach kind code before the patent number.
USD475498



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Select : All None Older than 1 week No longer available Not found			3 document(s)
<input type="checkbox"/> EP1165867A1 - 24 pages Jan 17, 2007 10:15 AM		Jan 17, 2007 10:15 AM	Order
<input type="checkbox"/> US7000000B1 - 10 pages Jan 17, 2007 10:15 AM		Jan 17, 2007 10:15 AM	Order
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<input type="checkbox"/> CA1332690C - 35 pages Jan 17, 2007 10:13 AM		Jan 17, 2007 10:13 AM	Order
<input type="checkbox"/> DE3841507C1 - 14 pages Jan 17, 2007 10:13 AM		Jan 17, 2007 10:13 AM	Order
<input type="checkbox"/> DK-162114B - 27 pages Jan 17, 2007 10:13 AM		Jan 17, 2007 10:13 AM	Order
<input type="checkbox"/> JP01220708A - 13 pages Jan 17, 2007 10:14 AM		Jan 17, 2007 10:14 AM	Order
<input type="checkbox"/> US5000001A - 13 pages Jan 17, 2007 10:12 AM		Jan 17, 2007 10:12 AM	Order

DOCKET78910	Full PDF	First Page	Drawings
Select : All None Older than 1 week No longer available Not found			2 document(s)
<input type="checkbox"/> US5884323A - 19 pages Jan 17, 2007 10:14 AM		Jan 17, 2007 10:14 AM	Order
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Status: There are three possible status indicators:

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The patent is being retrieved and assembled into a single PDF file, this process usually occurs in less than a minute, but can take longer.

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Click on the associated PDF icon and the patent image will be directly downloaded into an Adobe Acrobat (TM) reader.

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Section IX – PatentExaminer

Add to Workfile

If your QPAT subscription includes access to PatentExaminer, you may now export your results directly from the Hit list Display to your workfiles. Select the documents, click on Add to Workfile:

QPAT Version 5.0

Display | Printer friendly | Export | Add to a workfile | Save search | Create an alert | Analyze

Search: (CERAMIC)/BUSA AND ((APPLE)/PA)

Records: 1-4 of 4

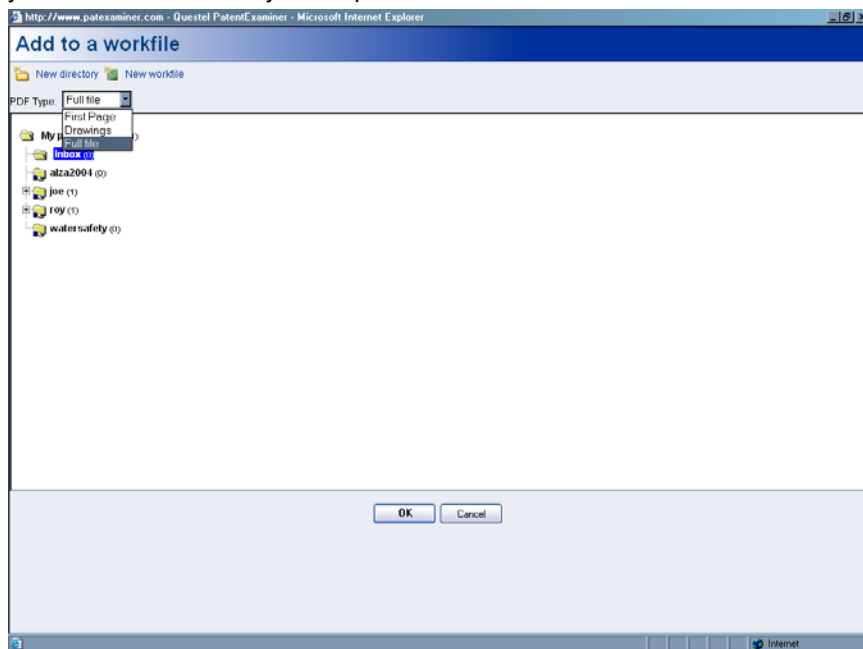
Select: All | Page | Starred | Not starred | Viewed | Not viewed | None

	FamPat family	Date	Title	Assignee	Image
<input checked="" type="checkbox"/>	US2006269528	20061130	Handheld computing device	APPLE COMPUTER	
<p>Abstract: A handheld computing device is disclosed. The handheld computing device includes an enclosure having structural walls formed from a ceramic material that is radio-transparent.</p>					
<input checked="" type="checkbox"/>	US6496149	20021217	Recessed aperture-coupled patch antenna with multiple dielectrics for wireless applications	APPLE COMPUTER	
<p>Abstract: The present invention provides an aperture-fed patch antenna assembly that is recessed into a conductive surface of an external shell of an electronic device. In one embodiment, an antenna feed attached to a removable core of the electronic device may be removed from the external shell without requiring a manual disconnecting of the antenna feed from a wireless radio modem in the electronic device. The patch antenna assembly includes a shim having an aperture therein and positioned between a primary dielectric and a printed circuit board to create a secondary dielectric between the primary dielectric and the printed circuit board. In one embodiment, the primary dielectric is ceramic and the shim is plastic.</p>					
<input checked="" type="checkbox"/>	WO9845674	19981015	Probe tile and platform for large area wafer probing	CELADON SYST INC CELADON SYSTEMS INC	
<p>Abstract: A system and method for a plurality of probe tiles and a probe platform for electrically probing a semiconductor wafer over a broad area of the semiconductor wafer. Nine ceramic tiles are configured in a flat three by three matrix, and are held in place by a probing platform. Each tile may be moved independently in an X and Y direction. The probe platform has three control knobs on the side to move a tile in the X direction and three control knobs on the front to move a tile in the Y direction. The control knobs are attached to transmission shafts which slide back and forth into three ball detent positions. The ball detent positions determine which tile is engaged and can be manipulated. The ceramic tiles hold self-aligning tungsten probe tips to permit semiconductor wafer testing over a wide temperature range.</p>					
<input checked="" type="checkbox"/>	US5081164	19920114	Organosilicon dental composite restorative materials	LAI LAB INC	
<p>Abstract: A restorative dental composite material consists essentially of an organosilicon monomer selected from a class of siloxane materials which are cross-linkable utilizing visible light sensitive photoinitiators, an amount of filler material, a coupling agent and an amount of activator. An amount of ethylenically unsaturated monomer, an amount of thermally pre-polymerized particle material and/or a pigment material can be added to the composite if indicated. The materials exhibit greatly improved properties including a high degree of conversion, minimum water sorption and good color stability.</p>					

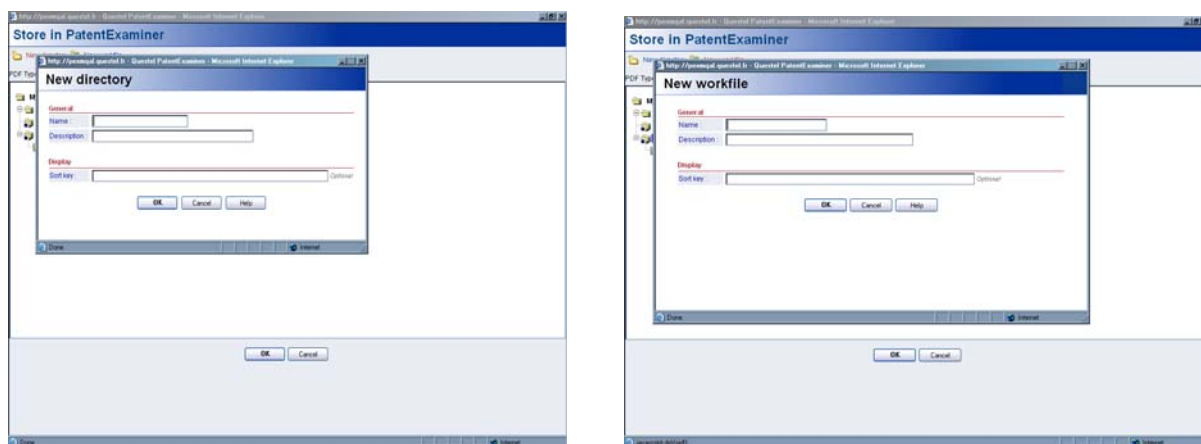
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A separate window will open. The exported documents are shown in the left hand window of your portfolio. Your portfolio is structured with two levels; the directories and the workfiles. After clicking on Add to workfile, you will then select:

- The PDF Type:
 - PDF = Full PDF (default)
 - PDFF = Front Page Only
 - PDFD = Drawings only (when available)
- The directory and workfile in which you will place the documents.



Additionally from here you may create new workfiles and directories:



The Directories

Access to directories is controlled by the PatentExaminer Administrator. All the workfiles inside a directory are accessible to all the users authorized for this directory. The Administrator directory shows the Questel logon which was used to create the files. This directory and the workfiles which it contains are accessible only to the user who connects to PatentExaminer with this same Questel logon. The PatentExaminer Administrator controls the access of the readers to the directories.

The Workfiles

The workfiles contain the patents family references. The figures on the right of the files, for example (2/3/3), indicate the number of new, not read references, new references and the total number of references in the file. When a workfile is selected, the list of the references which it contains appears in the right part of the window. To the left of the names of files, icons indicate the status of the files:

- : Normal status, no updates are taking place, the workfile is accessible.
- : The workfile is updating, and is not accessible
- : Available PDF copies of are being updated, the workfile is accessible

When a workfile is selected the list of references appears in the right portion of the window.

The recycle bin is a file which contains all the removed references. These can be recovered by using the Copy and Paste buttons. To permanently delete references, you must empty the recycle bin.

#	Publication number	Date	Title	Assignee	Ranking
1	US20070047885 Update: 2007-13	20070301	System and method for transferring much more information in optic fiber cables	BAUR AL J MAYER YARON	NEW
2	WWO2007125540 Update: 2007-14	20071108	Dispersion optimized optical fiber for wideband optical transmission	NAIR MANOJ SHASHIKANT PRASAD STERLITE OPTICAL TECHNOLOGIES	NEW
3	US20070071441 Update: 2007-15	20070329	Signal identification method	LUCENT TECHNOLOGIES INC	NEW

Creating and Modifying Directories and Workfiles


The administrator can create new directories as well as new workfiles. Modifications can also be made to the existing names of the directories or workfiles.

- **To create a new directory:**

To create a new directory, click on the icon **new directory** 

Enter the name of the new directory and comment, if needed. Click on OK to validate the new file name and close the window. The name of the new directory will appear in your portfolio.

- **To create a new workfile:**

Select a workfile and click on the icon **new workfile** 

Enter the name of the new workfile and comment, if needed. Click on OK to create the new workfile and close the window. The name of the new workfile will appear in your portfolio.

- **To modify or rename a directory or a workfile:**

Select a directory or workfile and click on the icon **rename or change description** 

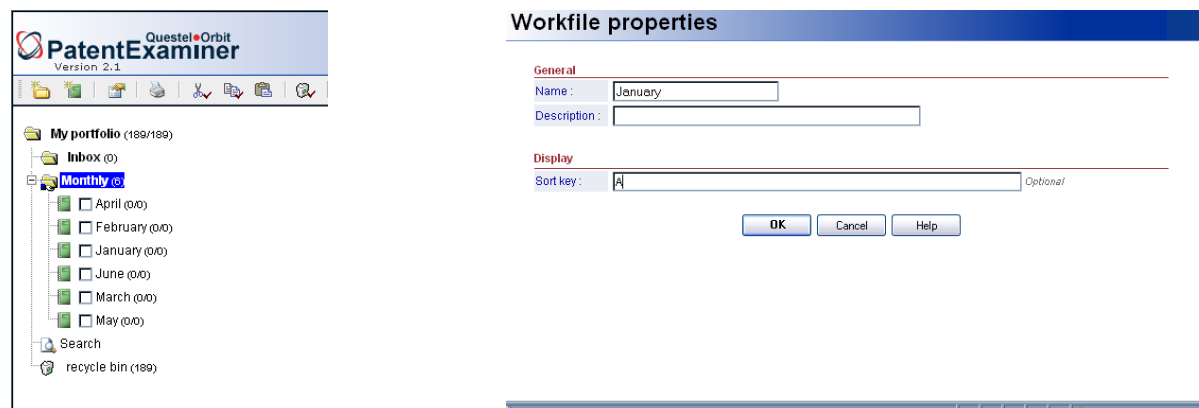
Modify the name of the directory or workfile and/or the comments. Click on button OK to validate the modification and close the window. The new name of directory or workfile will appear in your portfolio.

Note: Names for directories or workfiles must begin with a letter and may be no more than 30 alphanumeric characters and may not contain spaces or special characters.

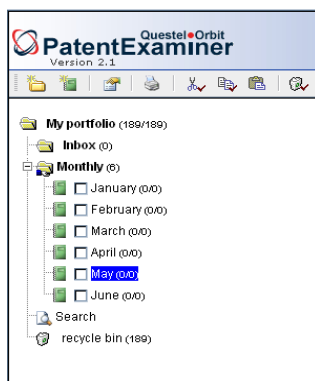
Sorting Directories and Workfiles

By default the directories and workfiles are sorted alphabetically. You can modify this by creating alias which will be used as sort key.

Example: A Monthly directory contains six workfiles named for the first six months of the year. By default, these six files are posted in alpha order.



To list in chronological order, modify the sort key of each file. Click on the Rename icon. For the January workfile, enter A in the sort key. For the February, workfile, enter B for the sort key, C for March and so on.



References

The list of references

When you select a workfile, the list of patent references which it contains appears in the right part of the window. The name and the description of the directory and workfile are shown in the header.

Monthly June

Select: Page | None Page: 1 Attachment Unfold: All | None

#	Publication number	Date	Title	Assignee	Ranking
1	EP1798919 Update: 2007-25	20070620	Method and system for compensating for optical dispersion in an optical signal	FUJITSU LTD KINOSHITA SUSUMU VASSILIEVA OLGA I	★★★★★
2	US20070140695 Update: 2007-27	20070621	Demodulator	YOKOGAWA ELECTRIC CORP	★★★★★ NEW!
3	US20070127538 Update: 2007-25	20070607	Athermal external cavity laser	KOREA ELECTRONICS TELECOMM	★★★★★ NEW!
4	US7236700 Update: 2007-27	20070626	Scalable and exchangeable erbium doped fiber amplifier for DWDM	FINISAR CORP	★★★★★ NEW!
5	WO200762670 Update: 2007-24	20070607	OPTIMIZED DYNAMIC ROUTING IN AN OPTICAL NETWORK	D ALESSANDRO ALESSANDRO MORRO ROBERT SALMERON SANTOS VICTORIA TELECOM ITALIA SPA	★★★★★ NEW!
6	WO200764238 Update: 2007-24	20070607	CONTROLLABLE MULTI-CHANNEL OPTICAL INPUT/OUTPUT MULTIPLEXER	NECHAEV ALEXANDR VLADIMIROVICH SAKHAROV VYACHESLAV KONSTANTIN	★★★★★
7	WO200764240 Update: 2007-24	20070607	DYNAMICALLY FUNCTIONAL MULTI-CHANNEL CONTROLLABLE OPTICAL INPUT/OUTPUT MULTIPLEXER	NECHAEV ALEXANDR VLADIMIROVICH SAKHAROV VYACHESLAV KONSTANTIN	★★★★★ NEW!

(c) Questel 2008 Filter: none

For each patent references the following information is shown:

- The first publication number of the FamPat family reference and the FamPat update code
- The title, in English if available, or the language of the originating country
- The patent assignee, or if the assignee name is not available, the inventor name(s)

Opposite the publication number the following icons may appear:

- Relevance indicator. By default and before evaluation of the document by the user, it consists of 5 white stars
- Indicates document has not been reviewed
- PDF copy is available

In the lower right corner of the window, the Filter option is shown.

By default, the references are sorted by ascending publication date. To sort in descending order, click on the Date column. By clicking on the corresponding column, you may also sort alphabetically by patent, title, assignee, or by the number of stars. Column by which the data is sorted is highlighted in orange.

You can unfold a reference by clicking on the plus (+) sign to the left of the publication number. You may unfold all the references by clicking Unfold ALL. Displayed is the abstract and front page drawing, where available.

QPAT My Patent Examiner workfiles

Search Import Update Export Stats Tools

Monthly June

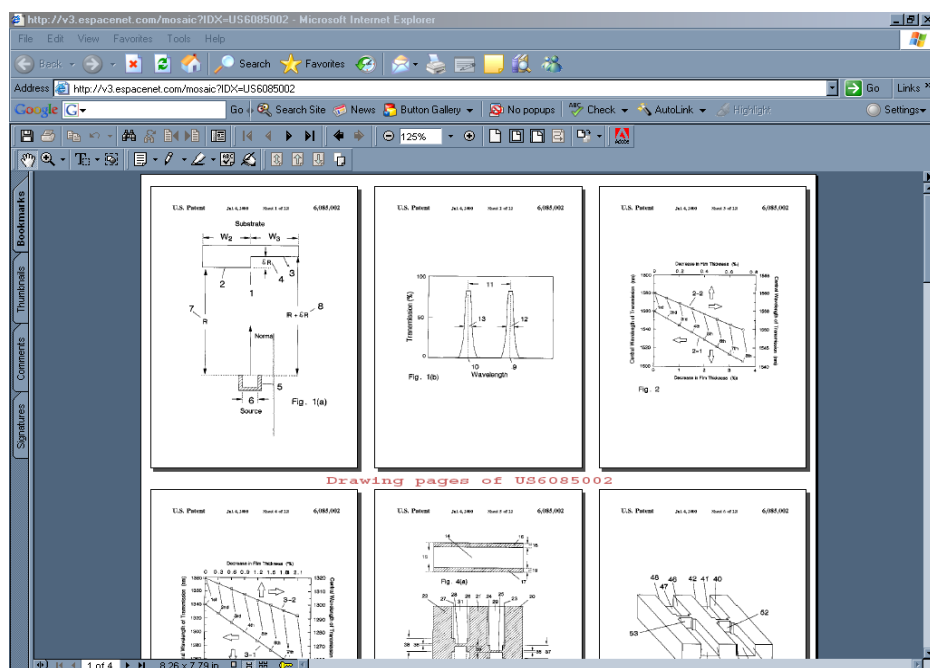
Select: Page | None Page: 1 Attachment Unfold: All | None

#	Publication number	Date	Title	Assignee	Ranking	Image
1	EP1798919 Update: 2007-25	20070620	Method and system for compensating for optical dispersion in an optical signal	FUJITSU LTD KINOSHITA SUSUMU VASSILIEVA OLGA I		
<p>Abstract: A method for compensating for optical dispersion in an optical signal includes receiving an optical signal comprising a plurality of channels. The information being communicated in a first set of channels is modulated using a first modulation technique, and the information being communicated in a second set of channels is modulated using a second modulation technique. The method also includes compensating for optical dispersion in the optical signal such that dispersion compensation for the first set of channels is complete and such that dispersion compensation for the second set of channels is incomplete. In addition, the method includes splitting the optical signal into a first copy and a second copy, terminating the second set of channels in the first copy, performing additional dispersion compensation on the second copy such that dispersion compensation for the second set of channels is complete, and terminating the first set of channels in the second copy.</p>						
2	US20070140695 Update: 2007-27	20070621	Demodulator	YOKOGAWA ELECTRIC CORP		
<p>Abstract: A demodulator includes: a Michelson interferometer having: a half-mirror which splits an optical signal, emits a first split light to a first optical path, and emits a second split light to a second optical path; a first reflector which reflects the first split light to the half-mirror; and a second reflector which reflects the second split light to the half-mirror, wherein the half-mirror recombines the first split light and the second split light, and emits a recombined optical signal while splitting the recombined optical signal; and an balanced optical detector which receives the recombined optical signals from the Michelson interferometer, and generates a demodulated signal based on the two recombined optical signals. The length difference between the first optical path and the second optical path is set so that the second split light has a delay time equal to a one-bit period, with respect to the first split light.</p>						
3	US20070127538 Update: 2007-25	20070607	Athermal external cavity laser	KOREA ELECTRONICS TELECOMM		

(c) Questel 2008 Filter: none

To fold up a reference, click on the minus (-) sign. You may fold up all references buy clicking Unfold NONE.

Clicking on the drawing opens a new window which enables you to view a larger image of the drawing (default) or, if selected, the mosaic of the drawings. You can modify the option of the click on image by modifying your preferences.



You may add 1 to 4 additional columns to your display in order to view the various classification codes: IC (International Classification), ECLA (European Classification), US PCL (US Classifications) and FI-F Terms (Japanese classifications). This option is available in your User Settings

Monthly April

Select: Page | None Page: 1 Attachment Unfold: All | None

#	Publication number	Date	Title	Assignee	IPC	Ecla	US PCL	FI-F Terms
<input type="checkbox"/> 1	US20070076999 Update: 2007-16	20070405	Optical waveguide modulator with output light monitor	HARA TOKUTAKA MIYAZAKI NORIKAZU	G02B-006/26 G02F-001/01 G02F-001/035 G02F-001/29 G02F-001/295	G02F-001/225H		
<input type="checkbox"/> 2	US20070079677 Update: 2007-17	20070412	Cutting method for DWDM filter	ASIA OPTICAL CO INC	B23Q-015/00			
<input type="checkbox"/> 3	EP1775861 Update: 2007-16	20070418	Wavelength tunable optical transmitter and optical transceiver	NAOE KAZUHIKO OKAYASU MASANOBU OPNEXT JAPAN INC SASADA NORIKO UOMI KAZUHISE	H01S-003/04 H01S-003/10 H01S-005/00 H01S-005/026 H01S-005/068 H04B-010/152 H04B-010/155	H04B-010/155F5 H04B-010/155S2D H04B-010/155S2E	H01S5/026 616 5F173 AB13 5F173 AD12 5F173 AH03 5F173 AH12 5F173 AR06 5F173 AS05 5F173 AS10	
<input type="checkbox"/> 4	WO200739765 Update: 2007-16	20070412	Optical gain flattening components, optical chips and optical amplifiers and methods employing same	BOOKHAM TECHNOLOGY PLC FLINTHAM BARRIE FORTENBERRY RANCE MORGAN JOHNSON PAUL CHRISTOPHER SOMMER RAD	G02B-006/34 H01S-003/00 H04B-010/17	G02B-006/34B6 H04B-010/17A1F		

(c) Questel 2008 Filter: none

Filter

The filter makes it possible to limit the posting of references to those which meet the criteria selected by the user. To define a filter, click on Filter, found in the lower right corner of the right frame. Once the window opens, select the filter by notching the corresponding box and entering the value if necessary. You can select and use several filters. Click on OK to validate the selection of the filters.

Filters

☐ European classification
☐ US Patent classification
☐ International classification
☐ Country of publication: ARIPO
☐ Assignee
☐ Granted: No
☐ Ranking: >= - <= *****
☐ Since update
☐ Exported: No
☐ Read: No
☐ PDF availability: No

OK Cancel Help

The filtering selections will apply to all directories and workfiles listed and will remain as the default until a modification has been made. The filtering selection is shown next to the filter option in the lower right corner of the right frame.

- **European Classification:**

Limit to documents sharing the same ECLA classification

- **US Classification:**

Limit to documents sharing the same US Patent Classification

- **International Classification:**

Limit to documents sharing the same IPC

- **Country of Publication:**

To limit by documents published by the same patent office of patents. The drop down menu lists the countries alphabetically of code country, e.g. Switzerland is classified as CH

- **Assignee:**

To limit documents by Patent Assignee. You can use part of the name as well as the complete name.

- **Granted:**

To limited to granted patents only

- **Ranking:**

Limit by relevancy. Choose from 0 to 5 stars

- **Since Update:**

Limit posting to documents entered into the PlusPat or FamPat databases. The update code is the date which the reference was introduced into the database (e.g.: 2003-08 = references since the update number 8 of 2003).

- **Exported:**

Yes = Limit to references that have been exported

No = Limit to references that have not been exported

- **Read:**

Yes= Limit to references that have been read (viewed side-by-side)

No= Limit to references that have not been read

- **PDF Availability:**

Yes = Limit references to those that have PDFs available

No = Limit references to those that do not have PDFs available

Other Tools



Print the list of references



Cut, to delete either a workfile or references. To delete permanently you must empty the recycle bin.



Copy, you may copy an entire workfile or references



Paste, moves previously selected references to a new directory or workfile.



To remove selected elements. You can select directories, workfiles or references. The directories and workfiles must be empty to be removed. To empty a workfile, use the option Select All to remove all the references. Then remove the file.

Search By clicking Search you may find documents in one or more workfiles or in the entire portfolio, by keyword, patent assignee, inventor, classification, publication numbers or publication number.

Patent Examiner Version 2.1

Look in: ☐ Selected Workfiles ☒ Complete Portfolio

Search in: E.g.: Telecom+ OR phone

Classification: and E.g.: G10L-015

Assignee: E.g.: Siemens Nixdorf

Inventor: Last name first name

Patent number: E.g.: EP0980063

Publication country: E.g.: US or EP

Date: No restriction

Questel 2007



Update references with new data (new members, new stages of publication).

PDF copies, if not available at the time the references were imported into Patent Examiner will also be updated. You can select a complete workfile or individual or groups references in a workfile. The file is not accessible during the update.

QPAT My Patent Examiner workfiles

Monthly February

Select: Page | None Page: 1 Attachment Unfold: All | None

Workfile family update in progress...

Filter: none

Questel 2008

Viewing Documents

Viewing Text and PDF Side-by-Side

To view the text of a patent publication as well as the corresponding PDF, click on the publication number. At top of the page, the title of the document is preceded by the reference number in the list of the total number of references in the workfile. By default, PatentExaminer shows, for the first publication in the family, the bibliographic information, the first page of the PDF and a table of showing the members of the FamPat Family.

Family number: 20060400072324
Patent Number: US20060022955 A1 20060202 [US20060022955]
STG: Utility Patent Application published on or after January 2, 2001
AP: 2004US-0927925 20040826
FD: Provisional: US 60592483 - 20040730 [2004US-P592483]
US20060022956 A1 20060202 [US20060022956]
STG: Utility Patent Application published on or after January 2, 2001
AP: 2004US-0015978 20041217
FD: Provisional: US 60592483 - 20040730 [2004US-P592483]
Title: Visual expander
Patent Assignee: APPLE COMPUTER
Patent Assignee (Original): Apple Computer, Inc. [US]
Inventor(s): KENNEDY PETER
Priority Details: 2004US-P592483 20040730
2004US-0015978 20041217
2004US-0927925 20040826
Intl. classification: G09G-005/00
US Class Code: ORIGINAL (O):345173000
Update Code: 2006-05
Abstract
(US20060022955)
A computer implemented method for a touchscreen display is disclosed. The method includes presenting graphical information on the touchscreen display. The method further includes detecting a touch over the touchscreen display. The method also includes expanding an area of the touch screen display proximate the location of the touch.
Invention date: 20060227
FamPat family (20060400072324)
Publication number Kind Date
US20060022955 A1 20060202
US20060022956 A1 20060202

United States
Patent Application Publication
Kennedy
Pub. No.: US 2006/0022955 A1
Pub. Date: Feb. 2, 2006
Inventor: Peter Kennedy, San Jose, CA (US)
Attorney: BEYER WEINER & THOMAS LLP
P.O. Box 9028
Oakland, CA 94612-0280 (US)
Assignee: Apple Computer, Inc.
App. No.: 10/927,005
Filed: Aug. 26, 2004
Related U.S. Application Data
Provisional application No. 60/592,483, filed on Jul. 30, 2004.
Publication Classification
Int. Cl. G09G 5/00 (2006.01)
U.S. Cl. 345,173
ABSTRACT
A computer implemented method for a touchscreen display is disclosed. The method includes presenting graphical information on the touchscreen display. The method further includes detecting a touch over the touchscreen display. The method also includes expanding an area of the touch screen display proximate the location of the touch.

100
102
104
106
PRESENT GRAPHICAL INFORMATION ON TOUCH SCREEN DISPLAY
DETECT TOUCH OVER TOUCH SCREEN DISPLAY
EXPAND LOCALIZED SCREEN AREA OF TOUCH SCREEN DISPLAY PROXIMATE THE LOCATION OF THE TOUCH



Toggle from full page PDF to side-by-side view

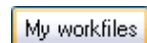


Toggle to view or hide the FamPat Family (default) or individual reference



Toggle to view or hide (default) the structure (tree) of the families

Navigation Icons:



To return to the directory and the list of the references of the workfile



To go to the first reference of the workfile



To go to the preceding reference in the workfile. Next to this icon is a drop-down menu containing the patent number references, to go directly to a specific document in the workfile, select the number from the drop down menu.



To go to the next reference in the workfile.



To go to the last reference of the workfile.



Found on the right of the PatentExaminer left frame, this button will resize the left frame of the PatentExaminer window.

The Text

• Navigation Icons:

Biblio To view the bibliographical data. Source: FamPat. Coverage: More than 78 countries, US and principal European countries from the 1920's, EP and WO (PCT) from 1978, other countries generally from the 1970's.


Abstract To view the abstract. Source: FamPat. Coverage: US from 1971, JP from 1976, PCT and EP from 1978, coverage dates vary for FR, GB, DE, CA, RU/SU, CN, TW, KR and other countries.

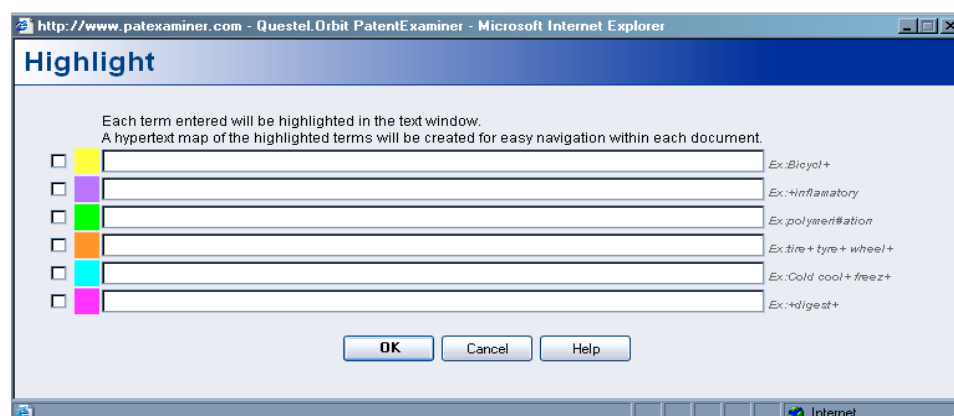
Claims To view the claims. Sources: US patents from 1971, US patent applications from 2001, European patents from 1991, European patent applications from 1987, PCT applications from 1978 and French patent applications from 1980.

Description To view the description. Sources: US patents from 1971, US patent applications from 2001, European patents from 1991, European patent applications from 1987, PCT from 1978 and French patent applications from 1980.

Note: Descriptions and Claims are displayed, by default, from the most recent publication.

• Highlighting:

Click on the highlight button  to highlight keywords from your search.



Highlighting will be applied to all terms chosen, in the text part of the references. It does not apply to the PDF facsimile. The parameters chosen for highlighting will apply to all the references in the workfile. Select the highlight color by notching the corresponding box and enter the term(s). Highlighting is applied to all the terms in the selected color box. For example, if you enter BRAKE PEDAL, as the term to highlight, word BRAKE will be put in highlighted in with the word PEDAL everywhere where they appear together, regardless of order.

All forms of truncation may be used, and may be applied on the left, right and internal.

+ Unlimited
? 0 or 1 character
Exactly 1 character signs
? and # can be used several times; for example?? = from 0 to 2 characters.

You can enter several terms by color, which enables you to treat synonyms with the same color. Click on button OK to apply the highlighting defined.

IMPORTANT: Highlighting is applied in real time to all references in the workfile. If the references have text that is heavily posted due to the large number of terms to be highlighted, the treatment can give the impression that your internet browser is blocked, or 'frozen'. You should see the message "highlighting in progress" located in bottom left of the left hand frame in PatentExaminer. To accelerate the highlighting treatment, decrease the number of selected terms and/or the use of truncation. The Cancel button does not modify nor does not remove the highlighting parameters. If you wish to cancel the highlighting, you must delete the terms from the color boxes then click on OK.

Hypertext Layout

Keyword highlighting also creates hypertext of all the occurrences in the text. The layout of the terms highlighted appears in the gray vertical bar located on the right frame beside the text. Each occurrence of color represents the occurrence of a term in the posted text. Click on a colored reference mark to go to this occurrence in the text.



To hide this layout click

The screenshot displays the Diskarray system interface, which includes a top menu bar with options like 'Biblio', 'Abstract', 'Claims', and 'Description'. The main window is divided into two panes. The left pane shows the 'Description' of the invention, detailing a diskarray system with a RAID (Redundant Arrays of Inexpensive Disks) configuration. The right pane displays a patent document for 'EP 1 582 971 A2', including bibliographic data and a technical diagram labeled 'FIG. 2'. The diagram illustrates the architecture of the diskarray system, showing a host computer (101) connected to a diskarray controller (102), which in turn manages multiple disk devices (103) and a cache memory (104). The diagram also shows a write buffer (105) and a write controller (106) within the diskarray system.

FIG. 2

Diagram illustrating the Diskarray system architecture. The system includes a Host Computer (101) connected to a Diskarray Controller (102). The Diskarray Controller (102) is connected to a Cache Memory (104) and a Write Buffer (105). The Write Buffer (105) is connected to a Write Controller (106). The Write Controller (106) is connected to a Diskarray System (103). The Diskarray System (103) includes a Diskarray Controller (102) and a Cache Memory (104). The Diskarray System (103) is connected to a Host Computer (101).

Publication number Kind Date

Publication number	Kind	Date
EP1582971	A2	20051005
US20050223167	A1	20051006

(c) Questel-Orbit 2006

The PDFs

• Navigation Icons:

First page

View the first page of the document. The PDF will be available for 30 days.

Drawing

View the drawing mosaics. Drawings are available for DE, EP, FR, GB, JP, US, WO.



Complete

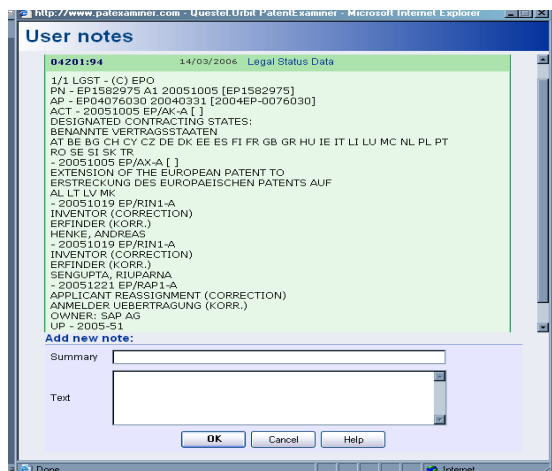
View the full-text PDF. The PDF will be available for 30 days.

Note: The most recent publication will be shown as the PDF copy. If a granted patent is available, it is this version, rather than the published application, which will be shown.

• Note:



Click on  to create user notes or to review the notes already present. The history of all the notes, including the author and the creation date, is preserved. To create a note, enter your comments as well as the summary or title. Then click OK which preserves the title and the text and close the window. An icon  (1) is added in the list of the references to indicate the presence of notes.



• Relevance:

The relevance tool is available on the right in top of the screen. Click on the number of stars, 1 to 5, to allot a level of relevance to the document. ★★★★★

You can then modify the relevancy indicators by increasing or by decreasing the number of stars. The level of relevance is shown on the list of references.




Attachment:


An attachment may be applied to a workfile or a reference. This function may only be used by the workfile expert. The reader can review the existing attachments but cannot add or remove attachment. The limit is 1 Mb per workfile or 8 attachments per workfile or 8 attachments per reference.

Export

You may export from the list of the references, by notching the corresponding boxes next to the reference(s). You may also export all the documents of the workfile by using Select All. From the side-by-side views, you may export documents during review.

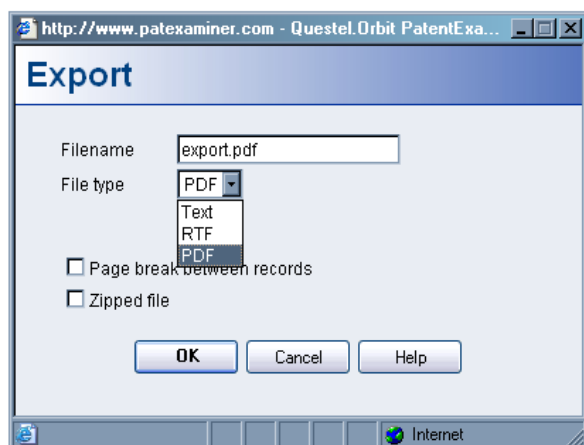
Once the documents are selected click 

You may export from the list of the references, by notching the corresponding boxes next to the reference(s). You may also export all the documents of the workfile by using Select All. From the side-by-side views, you may export documents during review.

Once the documents are selected click 

Export Parameters

Select the type of output, Text, RTF or PDF from the drop-down menu. You may rename the file, but do not modify the extension (.txt or .rtf or .pdf). If you export several documents from the list of references, you may select the Page break between the records option. With this, each document starts on a new page. If you export a large number of documents from the list of references, you may want to have the results zipped, in order to reduce the download time. After selecting your parameters, click OK. A hypertext link will allow you to download the exported documents.

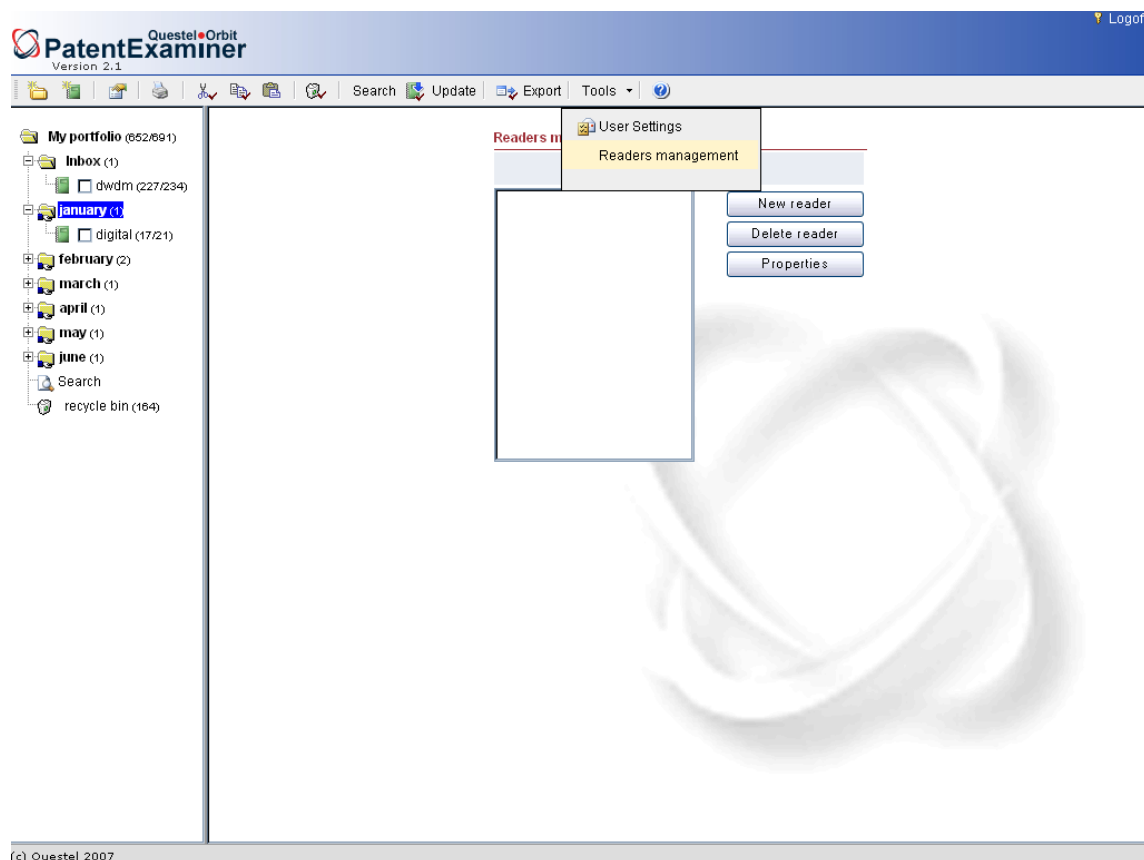


Creating Reader Access

The readers are the users authorized by the PatentExaminer Administrator. Readers then may access PatentExaminer and review the workfiles contained in the directories for which they are authorized. The readers will be able to see only the directories for which they have authorization. They will not be able to access any other directory or workfile. The readers cannot access the primary directory, which is noted by the PatentExaminer Administrators Questel Logon. A reader authorized on a directory can:

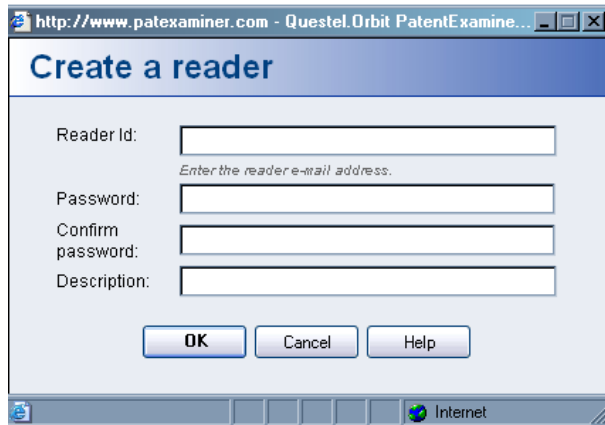
- Review all workfiles contained in the directory
- Review all references in the workfiles, including the notes, attachments and relevancy indicators.
- Include notes and modify relevancy indicators to documents
- Filter and Highlight references
- Export (download) or print documents and text
- Review, print or send by e-mail PDF documents

With the directory selected, from the Tools Icon select Readers management



New reader

Create new readers, which will be added to the Reader Management List



The screenshot shows a web browser window with the address bar displaying 'http://www.patexaminer.com - Questel.Orbit PatentExamine...'. The main content area is titled 'Create a reader' and contains the following fields and buttons:

- Reader Id: [text input field]
- Enter the reader's e-mail address.
- Password: [text input field]
- Confirm password: [text input field]
- Description: [text input field]
- Buttons: OK, Cancel, Help

The browser's status bar at the bottom shows 'Internet'.

Use the email address of the new readers to create the logon. Create a password and confirm it. A description is optional. The New Reader ID will appear in the left column of the Reader directory. This does not authorize the reader. Once the Reader ID is created, you must transfer it to right column of the Reader directory.

> Transfer the Reader IDs selected to Authorized Readers list for this directory. These readers now have authorization to access this directory and all the workfiles which it contains.

< Remove the Reader IDs selected from the list of Authorized Readers list for this directory. These readers will no longer have authorization to access this directory or any workfiles which it contains.

The Readers List contains the Reader IDs of all the readers created during a session, but are not yet authorized access to the directory and workfiles.

The Authorized Readers for this Directory contains the Reader IDs that have received authorization to access the directory and workfiles which it contains.

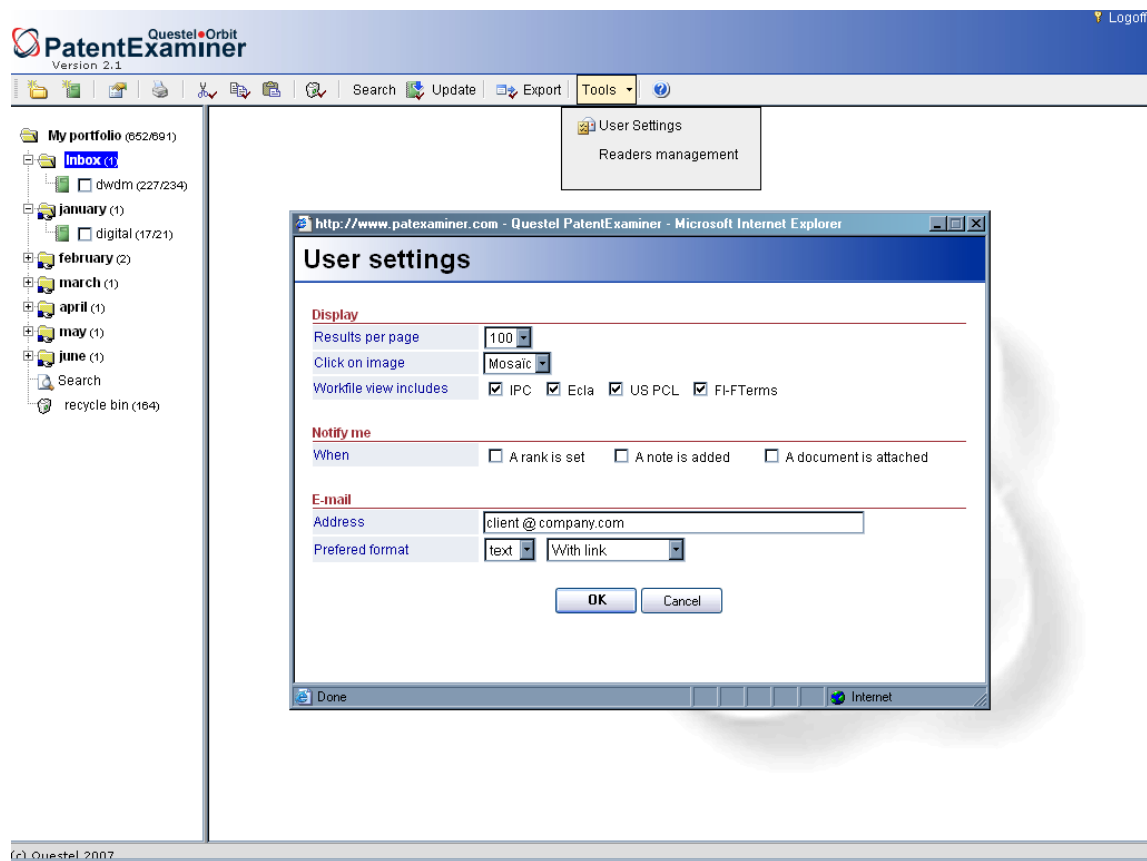
Properties

View the Reader ID. Here you may change the Readers Password and add a description.

Delete reader

Delete selected Reader IDs. Deleting a reader completely removes the reader from all directories. If you only want to remove the reader's authorization for a specific directory, then remove them from the Authorized readers for this directory for the specific directory for which you wish to deny access.

User Settings



Display

Results per page: Select the number of references listed per page (10, 25, 50, 100 or 200)

Click on image: Select Zoom to view large first page drawing or Mosaics for multiple drawings

Workfile view includes: Select IC, ECLA, US PCL FI-F Terms to view in workfile references lists

Notify me

When: Allows the user to be notified e-mail when relevancy is set, a note is added or an attachment has been made.

Email

Address: One email address may be entered, this address will receive update notifications, etc.

Preferred format: Define format of the e-mail which will be sent.

Section X – PatentExaminer PRO (Professional)

Access and Personalization

A certain number of additional functionalities are available in the version called Patent Examiner Pro (Professional). In order to access this version, your Questel user details (logon) must be specifically validated by Questel ID administration. For all information and validation details, please contact your Questel sales representative.

With this Patent Examiner Pro version, you may use a personalized URL address along the lines of:

www.mycompany.patexaminer.com

When you access this version with a personalized URL address, you also have the option to display your company Logo as an integral part of the connection page.

In order to have the personalized URL address and Logo options, please contact your Questel sales representative.

PatentExaminer Pro
Version 6.5a

PatentExaminer

- Version Française
- Secure version
- Guest access
- User Guide
- About

Customer Service

- Become a customer
- Fact Sheets
- Help Desk

Our web services

- Patent Delivery Service
- Digipat
- QPAT
- Qweb
- PATOLIS-e
- Merged Markush Service
- Trademark Explorer
- Trademark Expert

YOUR LOGO HERE
ADD YOUR LOGO HERE

Identification

UserID:

Password:

☐ Save my password

What's new!

- + **New sharing options**
Share your documents with who you want for a better collaborative work.
- + **New clearer workfiles display**
Addition of record number, a summary, a clipped image and some other optional fields.

Questel

(c) Questel 2008 Minimum configuration: Internet Explorer 5.5 / Netscape 7.0 / FireFox 1.0 - 1024x768 - Acrobat reader 5 - Java 1.4

If you do not wish to make use of these two options, you may connect to this version with validated user details by using the regular or classic URL: www.patexaminer.com

Patent Examiner Pro provides the following two additional functionalities:

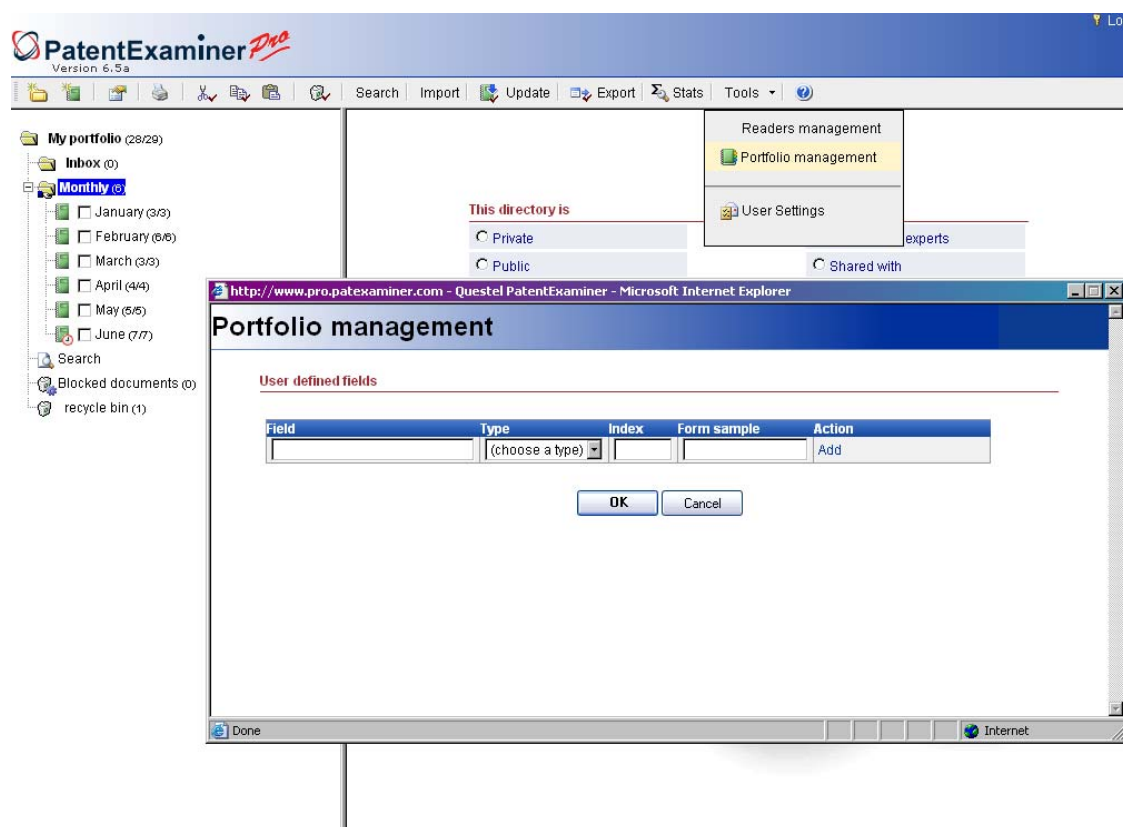
- User defined Fields
- Ability to tag and block documents as undesirable

Pro Version User Defined Fields

The Expert or Administrator may add up to 10 user or customized fields to any documents stored in this version. These user fields are then applied to all the workfiles in any given portfolio. The contents of these fields are displayed at the biblio tab level of the document. Terms, keywords or classes in these fields are also available for searching in assist mode or command line mode. All the readers have access to these user fields at the level of document display and searching via the assists.

Creation of these fields:

From the toolbar, click on "Tools", select the option "Portfolio Management" and a window opens for the creation of these fields.



The Expert or administrator is required to fill information into four zones for defining these fields:

- Field: zone for entering the Name of the field. This name is used in the document display and in the search assist. 40 Characters maximum
- Type: zone for specifying the nature of the field by selecting one of the following six options from the dropdown menu:
 - Classification (cla): for fields containing one or more predefined keywords. 255 Characters maximum.
 - Dictionary (dic): for fields containing one or more predefined keywords. 255 Characters maximum.
 - Text (txt) : for fields containing free text up to 65 000 characters.
 - Date (date): for fields containing a date
 - List (list): for fields containing one sole predefined keyword selected from a dropdown menu.
 - Number (num): for fields containing a numeric value
- Index: zone for defining the code of the field used for command line language searching. 2-4 Characters maximum without special characters
- Example: zone for entering the text of the example which will display in the search assist.

Example: Creation of 5 user fields

The screenshot displays the Patent Examiner Pro software interface. On the left is a sidebar with a file explorer showing 'My portfolio (28/29)', 'Inbox (0)', and 'Monthly (0)' with a list of months from January to June. The main window is titled 'Portfolio management' and contains a table of 'User defined fields'. Below the table is a form with a dropdown menu for selecting a field type, which is currently set to 'List'. The dropdown menu is open, showing options: '(choose a type)', 'Classification', 'Dictionary', 'Text', 'Date', 'List', and 'Number'. The 'Number' option is highlighted. Below the dropdown are 'OK' and 'Cancel' buttons. The table has the following data:

Field	Type	Index	Form sample	Action
Classifications	cla	ECLA	H04J-014/02F	Delete Down
Description	dic	MCLM	bandwidth	Delete Up Down
Comments	td	COM	optical	Delete Up Down
Anticipated Expiration Date	date	AED	2020-01-31	Delete Up Down
Inventor	list	INN	Higginbotham	Delete Up
				Add

At the bottom of the window, there is a 'Sort key' label and a 'Filter : none' checkbox.

Click on the option **Add** to validate the creation of the fields. When all the fields have been created, click on **OK**. The list of these fields which you have created is then available when selecting the option "**Portfolio Management**" in the **Tools Menu**.

Setting up the contents of the fields:

Once these fields have been created, you need to use the keyword list appearing in the filed types: Classification, Dictionary and List. These fields are accessible in the dropdown menu under tools.

Patent Examiner Pro Version 5.5a

Search Import Update Export Stats Tools

My portfolio (28/29)

Inbox (0)

Monthly (6)

January (3/3)

February (6/6)

March (3/3)

April (4/4)

May (5/5)

June (0/0)

Search

Blocked documents (0)

recycle bin (1)

Monthly

Select: Page | None Page: 1

#	Publication number	Date	Title	Inventor	Ranking
1	EP1798919 Update: 2007-25	20070620	Method and system optical dispersion in	TSU LTD OSHITA SUSUMU SILIEVA OLGA I	New!
2	US20070140695 Update: 2007-27	20070621	Demodulator	OGAWA CTRIC CORP	New!
3	US20070127538 Update: 2007-25	20070607	Athermal external ca	REA CTRONICS TELECOMM	New!
4	US7236700 Update: 2007-27	20070626	Scalable and exchangeable erbium doped fiber amplifier for DWDM	FINISAR CORP	New!
5	WO200762670 Update: 2007-24	20070607	OPTIMIZED DYNAMIC ROUTING IN AN OPTICAL NETWORK	D ALESSANDRO ALESSANDRO MORRO ROBERT SALMERON SANTOS VICTORIA TELECOM ITALIA SPA	New!
6	WO200764238 Update: 2007-24	20070607	CONTROLLABLE MULTI-CHANNEL OPTICAL INPUT/OUTPUT MULTIPLEXER	NECHAEV ALEXANDR VLADIMIROVICH SAKHAROV VYACHESLAV KONSTANTIN	New!
7	WO200764240 Update: 2007-24	20070607	DYNAMICALLY FUNCTIONAL MULTI-CHANNEL CONTROLLABLE OPTICAL INPUT/OUTPUT MULTIPLEXER	NECHAEV ALEXANDR VLADIMIROVICH SAKHAROV VYACHESLAV KONSTANTIN	New!

(c) Questel 2008 Filter: none

Enter the different values (40 characters maximum without special characters) as well as the respective descriptions in English (80 characters maximum without special characters). Click on the option **Add** to create each value. When all the values have been created, click on the button **OK**.

Example: Enter the codes which appear in the user fields created under the name Classification (Classification type).

http://www.pro.patexaminer.com - Questel Patent Examiner - Microsoft Internet Explorer

Classification/Dictionary management

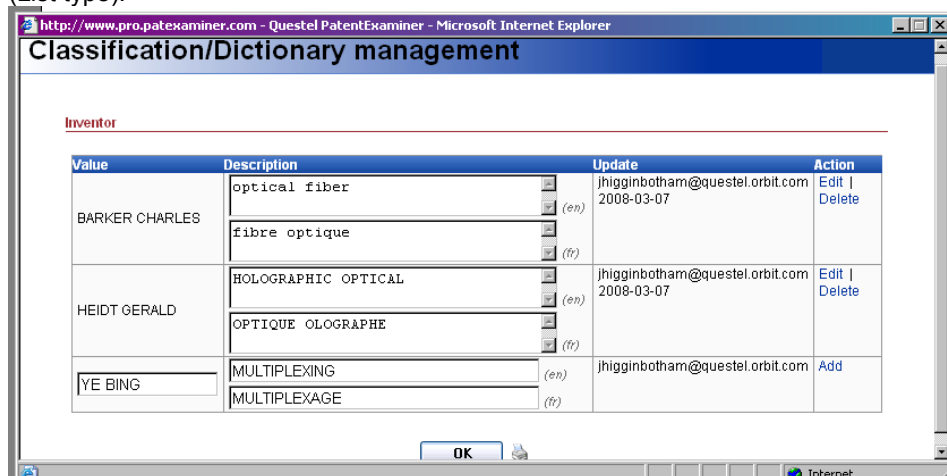
Classifications

Value	Description	Update	Action
H04B-010/08A [Monitoring transmission line (en)	jhigginbotham@questel.orbit.com	Add
	Surveillance de la ligne de transmission (fr)		

OK

Internet

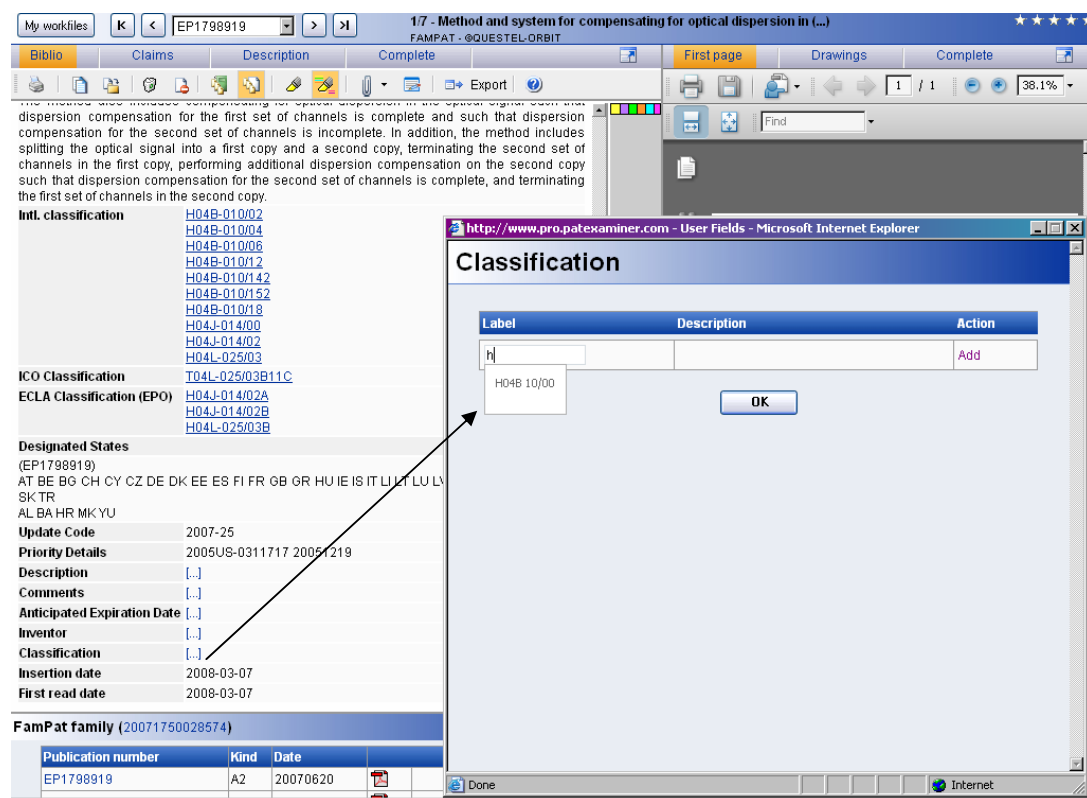
Example: Enter the terms which appear in the user fields created under the name: Analyze by (List type).



Indexing of the documents:

Indexing of the documents with the user fields takes place within the documents themselves. By clicking on [...], you open the indexing window.

For the Classification and Dictionary fields you need to enter the pertinent keyword for that document in the **Label box**. By typing the first character of the desired keyword, you will initiate a display of all the keywords starting with that character. Select the pertinent keyword and click on the option **Add**. Then click **OK**.



For the **List** type fields, select the term from the dropdown menu. Click on the option **Add**. Then click on the button **OK**.

The screenshot shows the 'Inventor' field in the 'Description' tab of the 'Biblio' section. A dropdown menu is open, displaying a list of names: BARKER CHARLES, HEIDT GERALD, and MAX-HAM KENNETH. The 'Add' button is visible next to the dropdown. The background shows the main application window with various fields like 'Int'l. classification', 'US Class Code', 'Update Code', 'Priority Details', 'Description', 'Comments', 'Anticipated Expiration Date', 'Inventor', 'Classification', 'First classification date', 'Insertion date', and 'First read date'.

For the **Date** type fields, the indexing window provides a calendar. You may also just simply enter the date value yourself.

The screenshot shows the 'Anticipated Expiration Date' application window. It features a calendar for March 2008. The calendar has columns for days of the week (S, M, T, W, T, F, S) and rows for dates (1 to 31). The date 2007-07-04 is entered in the 'Value' field. The 'Add' button is visible next to the 'Value' field. The background shows the main application window with various fields like 'Int'l. classification', 'ICO Classification', 'ECLA Classification (EPO)', 'Designated States', 'Update Code', 'Priority Details', 'Description', 'Comments', 'Anticipated Expiration Date', 'Inventor', 'Classification', 'First classification date', 'Insertion date', and 'First read date'.

The display of the fields in the documents:

The example below shows a document with 6 user fields of which 3 fields are labeled: **Inventor, Internal Classification and Date of expiration / Expiry date:**

The screenshot shows the Questel Patent Examiner interface. The left pane displays document metadata for a patent document. The right pane shows the patent document content, including a title, abstract, and claims.

Document Metadata (Left Pane):

- Int. classification:** H04B-010008
- US Class Code:** ORIGINAL O: 398037000, CROSS-REFERENCE X: 398038000, 398079000
- Citations:**
 - (US7330652)
 - Cited in the search report
 - US6046833(A)[US6046833]
 - US2002036988(A1)[US2002036988]
 - Ramamurthy, B. et al. Optimizing Amplifier Placements in a Multiwavelength Optical LAN/MAN: The Unequally Powered Wavelengths Case. IEEE/ACM Transactions on Networking, vol. 6, No. 6, Dec. 1998, pp. 755-767. Cited by the applicant
 - US6275329(B1)[US6275329]
 - US6304347(B1)[US6304347]
- Update Code:** 2008-07
- Priority Details:** 2000US-P258154 20001221, 2001US-0037085 20011220
- Description:** [..]
- Comments:** [..]
- Anticipated Expiration Date:** 2028-02-12 [..]
- Inventor:** MAXHAM KENNETH [..]
- Classification:** H04B 10/00 [..] (optical amplifiers)
- First classification date:** 2008-03-07
- First classification user:** 04201:k8
- Insertion date:** 2008-03-07
- First read date:** 2008-03-07

FamPat family (20080490018048) H04B 10/00

Publication number	Kind	Date
US7330652	B1	20080212

Document Content (Right Pane):

United States Patent
Maxham
 (12) Patent No.: US 7,330,652
 (13) Date of Patent: Feb 12, 2008

ABSTRACT
 A system and method for selecting optical or non-optical network is disclosed. In one embodiment, a design tool is used to configure the optical network. For each node, a large number of optical amplifier configurations are generated. A search algorithm is used to eliminate configurations that do not meet the quality of service of each configuration. The quality of service of each configuration is evaluated by determining an optical network configuration having a minimal number and a desirable quality of service.

Claims: 1. A system and method for selecting optical or non-optical network is disclosed. In one embodiment, a design tool is used to configure the optical network. For each node, a large number of optical amplifier configurations are generated. A search algorithm is used to eliminate configurations that do not meet the quality of service of each configuration. The quality of service of each configuration is evaluated by determining an optical network configuration having a minimal number and a desirable quality of service.

Indexing of documents by the Classification automatically generates the addition of two fields: Reference date (date when the indexing of the document took place). And User reference (logon of the user who applied the classification to the document).

For the fields of the type Classification, Dictionary and List, positioning the cursor or moving the mouse over the keyword will provide the description of the term. In this example, moving the cursor over the Inventor: Maxham Kenneth shows the description optical amplifiers

Note that the Classification type field appears also in the **User Settings and Filters**.

User settings

General

Attachment ☐ Readers can attach documents

Display

Results per page: 100

Family representative Publication Number: ☐ Earliest publication ☐ Most recent publication

Preferred Country: EPA/YO US FRA/DEA OBA/EP DE GB [Set to default](#)

Hit-list: ☐ Folded ☐ by default

Field format: Detailed

Click on image: Mosaic

Links: ☒ Links to original documents in exports

Workfile view includes: ☐ IPC ☐ Ecla ☐ US PCL ☐ F-F-Terms ☐ Classification

Notify me

When: ☐ A rank is set ☐ A note is added ☐ A document is attached

E-mail

Address:

Preferred format: text With link

OK Cancel

Filters

☐ European classification

☐ US Patent classification

☐ International classification

☐ Classification: Value

☐ Country of publication: ARIPO

☐ Assignee: No

☐ Granted: No

☐ Ranking: >= <=

☐ Since update: No

☐ Exported: No

☐ Read: No

☐ PDF availability: No

OK Cancel Help

Using the fields for searching:

All the user fields are searchable and appear in the search assists. You can also search these fields with the command line.

PatentExaminer Pro
Version 5.5a

Logoff

Search Import Update Export Stats Tools

My portfolio (21/29)
Inbox (0)
Monthly (6)
January (2/3/3)
February (4/5/6)
March (2/3/3)
April (4/4/4)
May (4/5/5)
June (5/7/7)
Search
Blocked documents (0)
recycle bin (1)

Look in : Selected Workfiles Complete Portfolio

Search in : Title, abstract E.g.: Telecom+ OR phone

Description : bandwidth

Comments : optical

Anticipated Expiration Date : None 2020-01-31

Inventor : MAXHAM KENNETH Higginbotham

Classification : H04B-010

Classification : E.g.: G10L-015

Assignee : E.g.: Siemens Nixdorf

Inventor : Last name first name

Publication number : E.g.: EP0980063

Publication country : E.g.: US or EP

User notes :

Attachments : .doc .xls .pdf .txt only

Date : No restriction

Use command line : E.g.: (wireless AND pho??)AB

(c) Questel 2008 Filter: none

Modification or Removal of Fields:

It is not possible to modify the name of the field, the type, the index or the associated example. You may delete a field by clicking on the option **Delete**. In order to make a modification, delete the field And then create a new field. The deletion of a field is not possible if documents have been indexed with that field.

http://www.pro.patexaminer.com - Questel PatentExaminer - Microsoft Internet Explorer

Portfolio management

User defined fields

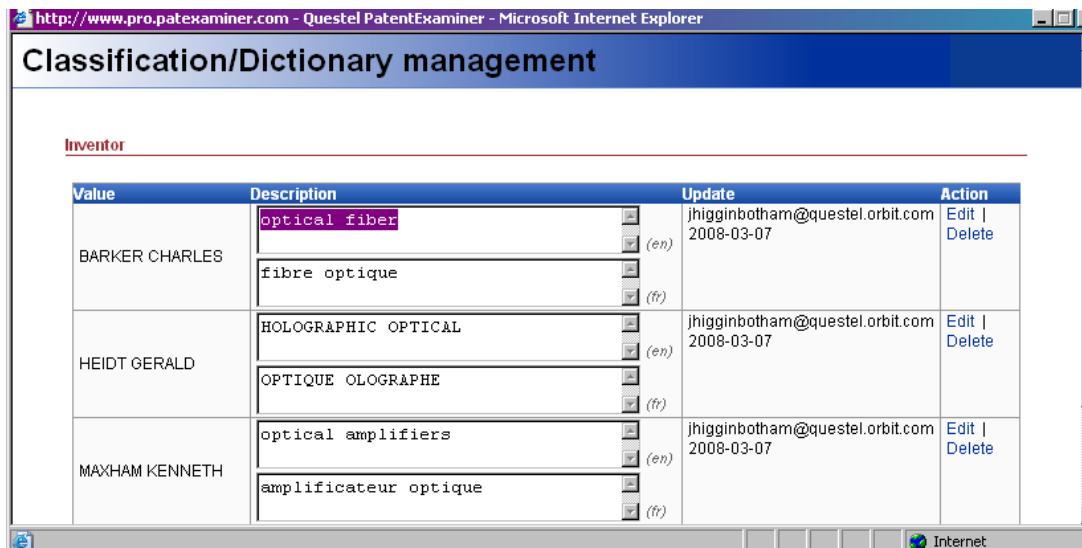
Documents are already linked

Field	Type	Index	Form sample	Action
Description	dic	MCLM	bandwidth	Delete Down
Comments	txt	COM	optical	Delete Up Down
Anticipated Expiration Date	date	AED	2020-01-31	Delete Up Down
Inventor	list	INN	Higginbotham	Delete Up Down
Classification	cla	IC	H04B-010	Delete Up
	(choose a type)			Add

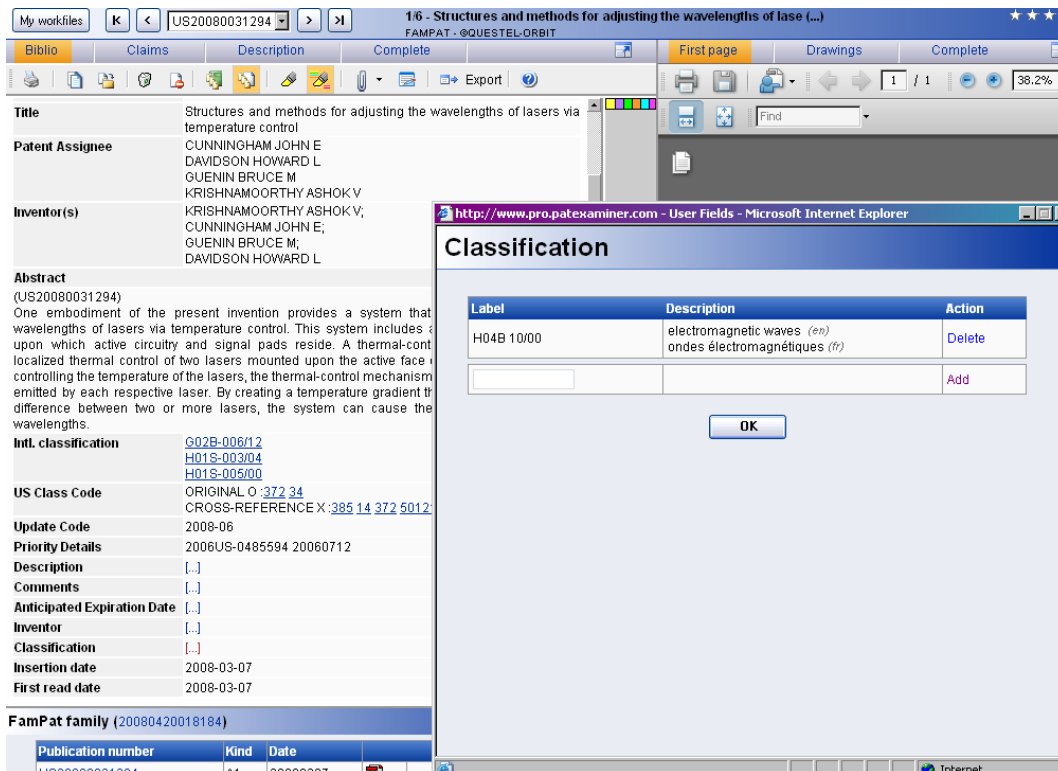
OK Cancel

http://www.pro.patexaminer.com/Field# Internet

The values in the Classification, Dictionary and List fields may not be modified. You may delete one value by clicking on the option Delete. To modify a value, delete the value, and then add a new value. In order to make a modification to the description, enter your modification in the **Description** box, and then click **Edit**. The modifications will be applied to all the documents in the portfolio. The deletion of a value is not possible if documents have been indexed with that value.



In order to modify or delete the contents of a field, click on [...] to open the window which will permit you to delete information or add new data for the fields which allow for multiple contents.



Pro Version – Blocking Undesirable Documents

This functionality is reserved for the Expert or Administrator (User with Questel logon). It permits you to tag a document present in a portfolio as undesirable. Select one or more documents and then click on the icon available in the tool bar.

PatentExaminer Pro Version 6.5a

Monthly February

Select: Page | None Page: 1 Attachment Unfold: All | None

#	Publication number	Date	Title	Assignee	Ranking
1	US20080031294 Update: 2008-06	20080207	Structures and methods for adjusting the wavelengths of lasers via temperature control	CUNNINGHAM JOHN E DAVIDSON HOWARD L GUENIN BRUCE M KRISHNAMOORTHY ASHOK V	
2	US20080031626 Update: 2008-06	20080207	Photonic Integrated Circuit (PIC) Chips	INFINERA CORP	
3	WO200818978 Update: 2008-06	20080214	OPTICAL COMMUNICATION SYSTEM	DORSCHNER TERRY A MINISCALCO WILLIAM J RAYTHEON CO SMITH IRL W	
4	US20080044128 Update: 2008-06	20080221	TRANSMITTER PHOTONIC INTEGRATED CIRCUITS (TxPICs) AND OPTICAL TRANSPORT NETWORK SYSTEM EMPLOYING TxPICs	INFINERA CORPORATION	
5	US7330652 Update: 2008-07	20080212	System and method for selecting the placement of optical amplifiers in an optical network	CIENA CORP	
6	US7336617 Update: 2008-09	20080226	Bit-field-encoded resource record for determining a transmission path in a communications network	Verizon Laboratories Inc.	

(c) Questel 2008 Filter: none

The tagged documents are deleted from the workfiles and the document references appear in the Bin dedicated to this function and labeled: **Blocked Documents**. The display of the list of blocked Documents includes the patent publication numbers in the family, the title, the assignees, the name of the user (email address) who blocked the document as well as the date that the block went into place.

PatentExaminer Pro Version 6.5a

Blocked documents are automatically deleted by the system when they arrive.

Page: 1

Publication number	Family members	Title	Assignee	Date	Action
US20080044128	US20080044128 A1	TRANSMITTER PHOTONIC INTEGRATED CIRCUITS (TxPICs) AND OPTICAL TRANSPORT NETWORK SYSTEM EMPLOYING TxPICs	INFINERA CORPORATION	20080307 jhigginbotham@questel.orbit.com	Remove from

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In terms of future exports to PatentExaminer or additions to the portfolios from alerts, any document containing the patent publication numbers in the families of blocked documents will be automatically rejected.

In order to unblock a document, click on the link **Remove From Blocked List** located in the column marked **Action**.

Note: The Unblocking of a document does not reintroduce it into its original workfile.

The screenshot shows the PatentExaminer Pro Version 6.5a interface. On the left is a sidebar with a tree view containing 'My portfolio (21/29)', 'Inbox (0)', 'Monthly (6)' (with sub-items for January through June), 'Search', 'Blocked documents (1)', and 'recycle bin (1)'. The main area displays a message: 'Blocked documents are automatically deleted by the system when they arrive.' Below this is a table with the following data:

Publication number	Family members	Title	Assignee	Date	Action
US20080044128	US20080044128 A1	TRANSMITTER PHOTONIC INTEGRATED CIRCUITS (TxPICs) AND OPTICAL TRANSPORT NETWORK SYSTEM EMPLOYING TxPICs	INFINERA CORPORATION	20080307 jhigginbotham@questel.orbit.com	Remove from blocked list

A 'Microsoft Internet Explorer' dialog box is overlaid in the center, asking 'Are you sure?' with 'OK' and 'Cancel' buttons.

Page: 1

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Section XI – Alerts

If your QPAT subscription includes Alerts, you may set-up your alert from the hit list display. Alerts will automatically run with each new update (weekly) to the file or files you have selected.

QPAT Version 6.2

Display • Printer friendly | Export | Order copy | Add to a workflow | Highlight | Save search | Create an alert | Analyze •

Search: (((COLLAPSE OR FOLD) 3D (KEYBOARD OR KEY BOARD)))BUSA OR (G06F-001/16P2K)EC

Records: 1-25 of 303 Page: 1 2 3 4 5 ... Last Next >> Show: 25 records per page

#	FamPat family	Date	Title	Assignee	Image
1	CA2591182	20071208	Angular keyboard for handheld mobile communication device	RES IN MOTION LTD	
2	EP1862883	20071205	Keyboard for mobile device	GRIFFIN JASON LADOUCEUR NORMAN M LOWLES ROBERT J PLETIKOSA VELIMIR RES IN MOTION LTD RESEARCH IN MOTION LIMITED	
3	EP1862882	20071205	Pivoting, multi-configuration mobile device	GRIFFIN JASON TYLER LADOUCEUR NORMAN M LOWLES ROBERT J PLETIKOSA VELIMIR RES IN MOTION LTD	
4	EP1862881	20071205	Pivoting, multi-configuration mobile device	GRIFFIN JASON TYLER LADOUCEUR NORMAN M LOWLES ROBERT J PLETIKOSA VELIMIR RES IN MOTION LTD	
5	CA2548924	20071104	ULTRA HANDHELD INTERNET PORTABLE (U-HIP)	GRAY STEPHEN G	
6	WO2007124083	20071101	MULTI-MODE MULTIMEDIA DEVICE AND COMPUTING SYSTEM	MICROSOFT CORP	
7	WO2007121605	20071101	LAPTOP COMPUTER	DREAMCOM CORP ESSLINGER HARTMUT WIDMER JANNIS	
8	WO2007113075	20071011	CONDENSED KEYBOARD FOR ELECTRONIC DEVICES	DIETZ TIMOTHY DIETZ TIMOTHY A HOLLOWAY LANE T HOLLOWAY LANE THOMAS IBM IBM UK TJONPIANGI DAVID TJONPIANGI DAVID C	
9	US2007206350	20070906	Information processing apparatus having switch for inputting key data	TOSHIBA KK	

QPAT Version 6.2

Alert

Create an alert on the current search

Search : (((COLLAPSE OR FOLD) 3D (KEYBOARD OR KEY BOARD)))BUSA OR (G06F-001/16P2K)EC

General

Name: COMPWATCH (alphanumeric characters only)

Title: Competitor Watch

Sub-account: NCSUN (Optional, alphanumeric characters only)

Collection to survey

Worldwide patents	Published applications	Granted
<input checked="" type="checkbox"/> FamPat		
<input checked="" type="checkbox"/> PlusPat		
US	<input checked="" type="checkbox"/> from 2001	<input checked="" type="checkbox"/> from 1971
EP	<input checked="" type="checkbox"/> from 1978	<input checked="" type="checkbox"/> from 1980
PCT	<input checked="" type="checkbox"/> from 1978	
France	<input checked="" type="checkbox"/> from 1980 in French	
Germany	<input checked="" type="checkbox"/> from 1987 in German	<input checked="" type="checkbox"/> Patent from 1987 in German
United Kingdom	<input checked="" type="checkbox"/> from 1979	<input checked="" type="checkbox"/> Utility models from 2004 in German
First page		
France	<input checked="" type="checkbox"/> from 1966 in French	

Template

☐ Classical

☐ Excel

☐ XML

☒ First page style

File type: Acrobat (.pdf)

Data

Format: Document

Delivery

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For More Information

WASHINGTON, D.C.

Questel
1725 Duke Street
Suite 625
Alexandria, VA 22314
USA
E-mail : help@questel.com

PARIS (Headquarters)

Questel
4, rue des Colonnes
75082 Paris Cedex 02
France
E-mail : clients@questel.fr