

IDPAT Quick Guide

Patent Duplicate Identification on Dialog®

Introduction

The Dialog service offers a number of patent databases, that together give you access to over 65 million patents from more than 96 different patent-issuing organizations. Some patent databases concentrate on a single country or issuing organization, whereas [Derwent World Patents Index® \(DWPISM\)](#) (Files 351/352, 350) and [INPADOC/Family and Legal Status](#) (File 345) cover patent families. Each patent database offers a unique perspective and presents patent data differently, but some of the databases overlap in their coverage. Most patent searchers use the Dialog OneSearch® feature to search several of these databases at the same time. When duplicates appear, it may be desirable to compare rather than remove them, to avoid missing important details.

Some of the predefined [OneSearch](#) categories available for searching patent data in multiple patent files Dialog include the following:

- [Patents \(PATENTS\)](#)
- [Fulltext Patents \(PATTEXT\)](#)
- [American Patents \(PATAMER\)](#)
- [Asia-Pacific Patents \(PATASIA\)](#)
- [European Patents \(PATENTEP\)](#)
- [Chemical Patents \(CHEMPAT\)](#)
- [Petroleum and Energy Patents \(OILPAT\)](#)

Identification of duplicate patents (IDPAT) is critical to managing overlapping patent data. The [IDPAT](#) command organizes a set of patent records into family-related groups of records and identifies unique and duplicate records. With IDPAT, you no longer have to sift manually through patent records from different databases. With this automatic grouping, you can easily choose to display records based on your needs.

Patent Terminology

A patent document frequently does not stand on its own, but rather exists as part of a patent family. The family consists of various patent documents that essentially cover the same invention in different countries.

In each country, when the application for the patent is first filed, it receives a local/national **application number** (AN) and **application date** (AD). Subsequently, the patent document is published and receives a **publication number** (PN, generally referred to as a **patent number**, even though many are actually published applications rather than granted patents) and **publication date/patent date** (PD). The AN= and PN= fields in the Dialog records are used to determine which patents fall into the same family or group, and which are duplicates.

The earliest filed application for a family is the **priority** filing and is assigned the priority application number and priority application date. In complex families, there can be multiple priorities. The first publication in a family is referred to as the basic publication. (In some databases, the basic is actually the first publication in the family received by the database producer.) Patent families may contain more than one patent from the same country. In this

case, the later patents are generally improvements or additions to the earlier ones. The priority application numbers and the patent numbers are used to identify duplicates.

Patent Files on Dialog

The Dialog files targeted for use with patent duplicate identification include files that contain only patents, as well as files with a substantial collection of patents:

- [CA SEARCH®: Chemical Abstracts®](#) (File 399 and subfiles)¹
- [Chinese Patent Abstracts in English](#) (File 344)²
- [CLAIMS®/Current Patent Legal Status](#) (File 123)
- [CLAIMS®/U.S. Patents](#) (File 340,341,392)
- [Derwent Biotechnology Resource](#) (File 357)^{1,2}
- [Derwent World Patents Index®](#) (Files 351/352,350)
- [Derwent World Patents Index First ViewSM](#) (File 331)
- [Ei EnCompassPAT™](#) (Files 353,953)
- [European Patents Fulltext](#) (File 348)
- [French Patents](#) (File 371)²
- [German Patents Fulltext](#) (File 324)
- [IMS Patent Focus](#) (Files 447,947)
- [INPADOC/Family and Legal Status](#) (File 345)
- [JAPIO – Patent Abstracts of Japan](#) (File 347)
- [LitAlert®](#) (File 670)
- [Patents Citation Index](#) (File 342)
- [U.S. Patents Fulltext](#) (Files 654,652)
- [WIPO/PCT Patents Fulltext](#) (File 349)

¹ File not included in PATENTS OneSearch subject category.

² File not currently updating.

How IDPAT Works

After a set has been created in a patent search, you can issue the IDPAT command to have Dialog identify patent **groups** and **duplicates**. Records with a patent number or application number in common will belong to the same group. Within a group, records with identical patent numbers are identified as duplicates. IDPAT examines the set of records and creates a new, sorted set arranged by groups. A two-part table consisting of a summary and a list of groups is displayed.. The summary includes the count of patent groups, unique patent records not part of a group, and non-patent records contained in the set:

Summary:

S2 has 106 records ordered as follows:

14 patent groups (records 1-50)

49 patent records without duplicates (records 51-99)

7 non-patent records (records 100-106)

The list of patent groups is organized into a table that looks like this:

Group Table:					
Groups	Total in Group	Primary Records	Record Numbers	Duplicates	Record Numbers
-----	-----	-----	-----	-----	-----
G1	7	F345	1	F351	3
				F348	4
				F340	5
				F654	6
				F399	7
		F349	2		
G2	2	F345	8	F340	9
G3	2	F345	10	F340	11
. . .					

The patent group table identifies each unique group by a G number, and indicates the number of records in each group, the file and record number(s) for primary records, and the file(s) and record number(s) for duplicate records.

Patent record grouping works best when the file against which duplicate patents are matched contains the largest number of patent countries. Records from this file are labeled as Primary Records in the patent group table. To guarantee that the Primary Records are from the largest multiple patent country file, IDPAT reorders the OneSearch file order of your BEGIN command so that the file containing the largest number of countries will be sorted first, with other multiple-country files sorted in descending order by number of countries. However, you have the option of choosing a different multiple-country file. Any single-country files in the OneSearch follow the multiple-country files, based on the pre-defined processing order defined for IDPAT.

```
? IDPAT
New file order will be: 345,351,342,344,348,340,331,349,654,652,347,123,
324,353,371,447,670
Duplicates will be matched against primary file: 345
Press ENTER to accept or enter preferred primary file number.

?
```

When you exit IDPAT, the OneSearch file order is restored to the order specified in your BEGIN command and you are notified of that fact.

```
Exiting IDPAT. Original file order reinstated, enter SHOW FILES to review
file order. Enter DISPLAY SETS (DS) to review existing sets.

?
```

The IDPAT Command

IDPAT can be issued alone or followed by a set number. Used by itself, it defaults to the most recent set.

- IDPAT
- IDPAT Sn (where n = a set number)

IDPAT SHORT (or SH)
 IDPAT Sn SHORT
 IDPAT FROM nnn (where nnn = one or more file numbers)
 IDPAT Sn FROM nnn
 IDPAT Sn SHORT FROM nnn

IDPAT and IDPAT Sn provide a summary of the number of patent groups, patent records without duplicates, and non-patent records and the patent group table. The IDPAT SHORT command displays only the summary information and not the patent group table. The IDPAT FROM options limit the IDPAT analysis to a subset of the files used in the OneSearch session. IDPAT allows up to 30,000 records or 400,000 unique patent numbers or application numbers in its sorted set, whichever limit is reached first.

IDPAT Display & Delivery Options

After the patent group table is displayed (or after the summary, if using IDPAT SHORT), you are presented with options to show the patent group table (useful if IDPAT SHORT was used), redisplay the summary, display records while in IDPAT, send records to a specific address via electronic mail or postal delivery, or return to command mode.

- | | |
|---------------------|----------------------------------------------------|
| 1. Show Group Table | 4. TYPE or PRINT Selected Records |
| 2. Show Summary | 5. TYPE or PRINT Primary and Non-Duplicate Records |
| 3. Quit | |

Enter an option (e.g., 4).

?

If option 4, *TYPE or PRINT Selected Records*, is requested, you will be able to display or deliver any of the primary, duplicate, or non-duplicate records in the IDPAT set. If option 5, *TYPE or PRINT Primary and Non-Duplicate Records*, is requested, another IDPAT set is generated and you may display or deliver any of the primary or non-duplicate records in that set. When requesting display or delivery, you can use a predefined record format or request a user-defined format (UDF). You will be prompted to enter the desired group numbers or record numbers.

The IDPAT set used in option 4 is sorted in patent group order and then in Dialog accession number order (usually equivalent to reverse chronological order) in duplicate and non-duplicate order, by file. Each patent group and its duplicate records are marked with a header identifying the group and showing the number of records in the group. If you choose to display one or more duplicate records without displaying the entire group, the number of records in the group is omitted from the display header. The set created in option 5 also sorts the primary and non-duplicate records in Dialog accession number order by file.

If you're having records delivered (using the PRINT option), you will be prompted to enter the alternate address name or to use your default address. Note that you must create alternate addresses while in command mode before starting IDPAT. If you are displaying records, TYPE command options, such as FROM, TAG, NOHEADER, etc., are not supported within IDPAT. After you have displayed or requested delivery of desired records, you have the opportunity to display or deliver additional records or to exit IDPAT and return to command searching.

IDPAT Search Example

? BEGIN PATENTS, 399

BEGIN desired patent databases and enter search strategy. Enter IDPAT to group patents and identify duplicates.

? S (SYNTHETIC OR ARTIFICIAL)(W)(BLOOD(W)VESSEL? OR ARTERIAL)(W)GRAFT?

S1 106 S (SYNTHETIC OR ARTIFICIAL)(W)(BLOOD(W)VESSEL? OR ARTERIAL)(W)GRAFT?

? IDPAT

New file order will be: 345,351,342,344,348,340,331,349,654,652,347,123,324,353,371,447,670

Duplicates will be matched against primary file: 345

Press ENTER to accept or enter preferred primary file number.

? <ENTER>

Either use default primary file or enter desired file number.

New file order: 345, 351, 342, 344, 348, 340, 331, 349, 654, 652, 347, 123, 324, 353, 371, 447, 670, 399

S2 106 IDPAT (sorted in duplicate/non-duplicate order)

IDPAT creates a sorted set.

Summary:

S2 has 106 records ordered as follows:

- 14 patent groups (records 1-50)
- 49 patent records without duplicates (records 51-99)
- 7 non-patent records (records 100-106)

Group Table:

Groups	Total in Group	Primary Records	Record Numbers	Duplicates	Record Numbers
G1	7	F345	1	F351 F348 F340 F654 F399	3 4 5 6 7
		F349	2		
G2	2	F345	8	F340	9
G3	2	F345	10	F340	11
. . .					

1. Show Group Table
2. Show Summary
3. Quit
4. TYPE or PRINT Selected Records
5. TYPE or PRINT Primary and Non-Duplicate Records

Enter an option (e.g., 4).

Option 4 allows you to TYPE or PRINT either group or item numbers from the Patent Group Table.

? 4

Press ENTER to TYPE records or enter PR to PRINT records via email or postal delivery.

? <ENTER>

? Enter format number or two-character display tag(s) (e.g., TI, PA) or enter Q to return to command mode.

? 3

Enter group(s) or record(s) to be displayed (e.g., G1, 3, 5-10) or enter Q to return to command mode.

? G2

Patent Group 2 ---(2 records)-----

2/3/13 (Item 13 from file: 351)

0002372364

WPI ACC NO: 1982-11807E/198206

Layer of polyurethane intended to contact blood - is modified at one surface by silicone rubber

Patent Assignee: US SEC DEPT HEALTH (USSH)

Inventor: DONACHY J H; PIERCE W S

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 4312920	A	19820126	US 197992102	A	19791107	198206 B

Priority Applications (no., kind, date): US 197992102 A 19791107

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 4312920	A	EN	8		

2/3/14 (Item 14 from file: 654)

2405828 **IMAGE Available

Derwent Accession: 1982-11807E

Utility

C/ Polymer alloy blood compatible surface
; POLYURETHANE ALLOYED WITH SILICONE RUBBER FOR MEDICAL EQUIPMENT AND GRAFTS

Inventor: Pierce, William S., Hummelstown, PA
Donachy, James H., Annville, PA

Assignee: The United States of America as represented by the Department of Health & Human Services(06), Washington, DC
U S OF AMERICA HEALTH & HUMAN SERVICES (Code: 06814)

Examiner: Derrington, James H. (Art Unit: 147)

Combined Principal Attorneys: Roberts, Jr., John S.

	Publication Number	Kind	Date	Application Number	Filing Date
	-----	--	-----	-----	-----
Main Patent	US 4312920	A	19820126	US 7992102	19791107
Fulltext Word Count: 1418					
Summary:					
S2 has 106 records ordered as follows:					
14 patent groups (records 1-50)					
49 patent records without duplicates (records 51-99)					
7 non-patent records (records 100-106)					
1. Show Group Table 4. TYPE or PRINT Selected Records					
2. Show Summary 5. TYPE or PRINT Primary and Non-Duplicate Records					
3. Quit					
Enter an option (e.g., 4).					
? 5					
S3 96 IDPAT (primary/non-duplicate records only)					
Press ENTER to TYPE records or enter PR to PRINT records via email or postal delivery.					
? <ENTER>					
? Enter format number or two-character display tag(s) (e.g., TI, PA) or enter Q to return to command mode.					
? 3					
Enter record(s) to be TYPed (e.g., ALL or a range to receive a desired number of Primary/Non-duplicate records, e.g., 1-10), or enter Q to return to command mode.					
? ALL					
3/3/1 (Item 1 from file: 345)					
67234344 Family ID: 37234385					
No. of Patents: 6; No. of Countries: 5					
No. of Legal Status: 9					
Patent Basic (No,Kind,Date): US 20080082161 A1 20080403					
Synthetic blood vessel grafts (English)					
Patent Assignee: ST JUDE MEDICAL					
Author (Inventor): WOO YI-REN (US)					
Record Type: Legal Status; Abstract; Cited Refs					

Patent Family:					
	Patent No	Kd Date	Applic No	Kd Date	Wk Added

Option 5 allows you to TYPE or PRINT from an additional set that only contains primary and non-duplicate records. Press ENTER if you wish to TYPE all or selected records.

```
AU 2007302706  A1 20080410  AU 2007302706  A 20070911 200918
CA 2664497     A1 20080410  CA 2664497     A 20070911 200928
```

.
.
.

If you wish to PRINT rather than TYPE your records, enter the PRINT or PR command at the prompt. Note that the alternate address must be created before using IDPAT. Enter EDIT ADDR <method> while in command mode to create an alternate address.

Summary:

S2 has 106 records ordered as follows:
 14 patent groups (records 1-51)
 49 patent records without duplicates (records 51-99)
 7 non-patent records (records 100-106)

1. Show Group Table
2. Show Summary
3. Quit
4. TYPE or PRINT Selected Records
5. TYPE or PRINT Primary and Non-Duplicate Records

Enter an option (e.g., 4).

? 5

Press ENTER to TYPE records or enter PR to PRINT records via email or postal delivery.

? PR

Enter format number or two-character display tag(s) (e.g., TI, PA) or enter Q to return to command mode.

? 3

Enter record(s) to be PRINTed (e.g., ALL or a range to receive a desired number of Primary/Non-duplicate records, e.g., 1-10), or enter Q to return to command mode.

? ALL

Enter alternate address name or press ENTER for default address.

? LIBRARYEMAIL

P054: PRINT 3/3/ALL ADDR LIBRARYEMAIL
 Alternate address: LIBRARYEMAIL is used.

Email delivery charges will be added at the rate of \$0.50 per PRINT command

Note: Unless you are setting up an Alert, you may enter SEND or SEND ALL to process your print request immediately.

Summary:

S2 has 106 records ordered as follows:
 14 patent groups (records 1-50)
 49 patent records without duplicates (records 51-99)
 7 non-patent records (records 100-106)

1. Show Group Table
2. Show Summary
3. Quit
4. TYPE or PRINT Selected Records
5. TYPE or PRINT Primary and Non-Duplicate Records

Enter an option (e.g., 4).

? 3

Exiting IDPAT. Original file order reinstated, enter SHOW FILES to review file order. Enter DISPLAY SETS (DS) to review existing sets.

? ds

Set	Items	Description
S1	106	S (SYNTHETIC OR ARTIFICIAL)(W)(BLOOD(W)VESSEL? OR ARTERIAL)(W)GRAFT?
S2	106	IDPAT (sorted in duplicate/non-duplicate order)
S3	96	IDPAT (primary/non-duplicate records only)

? s s3

S4 96 S3

? ds s4 from each

Set	File	Items	Description
	123	0	
	324	0	
	331	0	
	340	0	
	342	0	
	344	0	
	345	3	
	347	1	
	348	13	
	349	16	
	351	9	
	353	0	
	371	0	
	447	0	
	652	0	
	654	46	
	670	0	
	399	9	
S4		97	S3

The IDPAT sets are available for further use once you return to command mode, however some commands such as FROM will not work with IDPAT sorted sets. To eliminate this restriction, simply SELECT the final IDPAT set to create a new set containing the same records.

Tips for Using IDPAT

- If you need to identify duplicate records in other patent files than originally opened using BEGIN, use the ADD and REPEAT commands to modify your OneSearch before using IDPAT:

? B 345,348,349

? S BLOOD(W)VESSEL?

S1 72438 BLOOD(W)VESSEL?

? ADD 351,399

```
SYSTEM:OS - DIALOG OneSearch
You have 5 files in your file list.
(To see file names, coverage dates, and copyright notices, enter SHOW
FILES.)
```

```
Added File(s): 351, 399
Previous sets have been retained; enter DISPLAY SETS to view them.
```

```
? REPEAT
  S1 203398 BLOOD(W)VESSEL?
```

- If you'd like to narrow the scope of the IDPAT analysis, you can use the FROM option to limit IDPAT to the databases you specify; for example, IDPAT S5 FROM 351, 345, 348, if your original OneSearch included additional files.
- Use command stacking to deliver records quickly:

```
1. Show Group Table      4. TYPE or PRINT Selected Records
2. Show Summary         5. TYPE or PRINT Primary and Non-Duplicate
Records
3. Quit
```

Enter an option (e.g., 4).

```
? 5;PR;3;ALL;LIBRARYEMAIL
```

- When you return to command mode, the IDPAT sets are available to you for additional searching or to enter TYPE or PRINT commands. Note that the output from a TYPE or PRINT outside the IDPAT module does not include the patent group and duplicate labels.
- For easy distribution and electronic storage of your results within your organization, don't forget to use Dialog ERASM (Electronic Redistribution and Archiving) options outside the IDPAT module. For example, PRINT S3/9/ALL REDIST 25 ARCHIVE 150 ADDR LIBRARYEMAIL (where LIBRARYEMAIL is an e-mail address previously stored on Dialog).

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DIALOG Corporate Headquarters
2250 Perimeter Park Drive
Suite 300
Morrisville, NC 27560
1-800-3 DIALOG

DIALOG Europe, Middle East, Africa
St. Andrews House
18-20 St. Andrew Street
London EC4A 3 AG, UK
+44 (0)20 7832 1729

Contact the Dialog Knowledge Center
Within North America 1 800 3 DIALOG (334 2564)
Outside North America 00 800 33 DIALOG (33 34 2564)
Email: Customer@dialog.com

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