

# Complete Patent Family Searching

Find the complete patent family for US 4000000

## Step 1

Enter File 351 to access Derwent's World Patents Index database.

```
? b 351
```

```
File 351:DERWENT WPI 1963-2000/UD=,UM=, & UP=200019  
(c) 2000 Derwent Info Ltd
```

## Step 2

Conduct an effective Patent/Publication Number search.

```
? s pn=us 4000000
```

```
S1 1 PN=US 4000000
```

## Step 3

Display your search results using the TYPE (T) command.

```
? t s1/ti,ax,pn,pr,pa/1
```

```
1/TI,AX,PN,PR,PA/1
```

DIALOG(R) File 351:DERWENT WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

WPI Acc No: 75-81520W/197550  
Asphalt-aggregate mixts. mfr. - pref. using recovered road  
surfacing materials

Patent Assignee: MENDENHALL R L (MEND-I)  
Number of Countries: 009 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
BE 831337	A	19751103					197550 B
NL 7508364	A	19760119					197605
DE 2456143	A	19760129					197606
FR 2278844	A	19760319					197619
JP 51034228A		19760323					197619
GB 1439420	A	19760616					197625
US 4000000	A	19761227					197702
CA 1020154	A	19771101					197746
US 4067552	A	19780110					197804
US 4074894	A	19780221					197810
JP 53134022A		19781122					197901
IT 1039878	B	19791210					198013
US 30685	E	19810721					198132

Priority Applications (No Type Date): US 74488518 A 19740715; US  
72286613 A 19720905; US 72286618 A 19720905; US 73360464 A  
19730515; US 74360464 A 19740515; US 75601176 A 19750801; US  
75601177 A 19750801; US 76697322 A 19760830



If the DWPI record does not have a Related Accession Number or multiple Priority Numbers STOP! You have the Complete Patent Family.

## Step 4

Examine the DWPI record. If the record contains a Related Accession Number

OR

Contains MORE than ONE Priority Number, You MUST conduct a complete patent family search.

## Step 5

Conduct a complete patent family search using the MAP command followed by the special field code ANPRYY. This will extract all of the priority information from the record and save it to file. Remember to include the TEMP command to avoid having this data permanently stored on the Dialog system. Enter the set number of the record from which you will be conducting the search.

? map anpryy t

1 Select Statement(s), 8 Search Term(s)  
Serial#TD132

## Tools of the Trade

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### Step 6

Use the Execute Steps (EXS) command followed by the temporary file serial number. The Dialog system will search all of the patent family priority numbers in DWPI to see if any records are part of that patent family. The results of EXS command indicate that nine DWPI records are related patents

```
? exs
```

```
S2 9 AN=US 286613-1972 + AN=US 286618-1972 + AN=US
    360464-1973 + AN=US 360464-1974 + AN=US 488518-
    1974 + AN=US 601176-1975 + AN=US 601177-1975 +
    AN=US 697322-1976
```

### Step 7

Verify that there are nine DWPI records that make up the complete patent family. Use the MAP command on the answer set S2 to search for any new priority numbers. Note, the Serial number has changed

```
? map anpryy s2
```

```
3 Select Statement(s), 16 Search Term(s)
Serial#TD133
```

### Step 8

Execute (EXS) the saved search.

```
? exs
```

```
Executing TD133
```

```
S3 9 AN=US 286613-1972 + AN=US 286618-1972 +
    AN=US 360464-1974 + AN=US 487911-1974 +
    AN=US 487927-1974 + AN=US 487928-1974 +
    AN=US 488518-1974 + AN=US 537562-1974 +
    AN=US 601176-1975 + AN=US 601177-1975
```

```
S4 4 AN=US 616910-1975 + AN=US 697322-1976 +
    AN=US 715870-1976 + AN=US 758316-1977
```

```
S5 9 S3:S4
```

### Step 9

If the number of DWPI records retrieved in S5 is the same number that was retrieved in S3, STOP. This is the complete patent family. If the number increases, repeat steps 7-8 until the number no longer increases.

**Step 10**

Display the search results using the TYPE (T) command.

```
? t s5/36/1-3
```

```
5/36/1
```

```
DIALOG(R)File 351:DERWENT WPI
```

```
(c) 2000 Derwent Info Ltd. All rts. reserv.
```

```
003164647
```

```
WPI Acc No: 81-25189D/198114
```

```
    Liq. asphalt compsn. - for adding to asphalt-  
aggregate recycle compsns., comprises asphalt and  
petroleum hydrocarbon
```

```
5/36/2
```

```
DIALOG(R)File 351:DERWENT WPI
```

```
(c) 2000 Derwent Info Ltd. All rts. reserv.
```

```
002093088
```

```
WPI Acc No: 79-B2977B/197906
```

```
    Asphalt-aggregate sleeve mixer - has sleeve  
extending around rotatable drum to define final mixing  
chamber
```

```
5/36/3
```

```
DIALOG(R)File 351:DERWENT WPI
```

```
(c) 2000 Derwent Info Ltd. All rts. reserv.
```

```
001972925
```

```
WPI Acc No: 78-L2203A/197851
```

```
    Prodn. of asphalt-aggregate compositions - uses  
rotatable drum having heating pipes and being capable  
of returning unburned hydrocarbon(s) into heating  
chamber
```