



Patent Families and where to find them

Robert Austin – FIZ Karlsruhe

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## Agenda

- What is a *patent family*?
- Comparative example from multiple files
- Patent family definitions
- Examples highlighting key differences
- Timeliness in patent family databases

## Why search for patent families?

- Support marketing concerns
  - Due diligence
  - Scope of protection sought
- Provide legal guidance
  - Actual granted inventions
  - FTO in desired country
  - Filing status

## What is a patent family?

- A list of the patent publications from around the world describing the same invention
- A list of patent publications which quote a common priority application number and date
- A method of summarizing the global legal protection being sought by a patent applicant
- A time saving convenience for both patent searchers and patent database producers

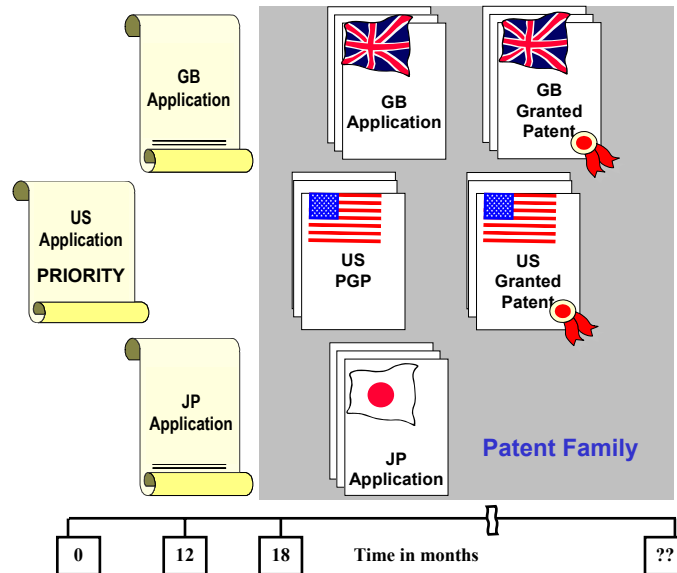
## A patent family is not

- An easy-to-understand concept
- Defined uniformly
- A legal concept

## Key concepts for patent families

- The Paris Convention
- Priority information
- Multinational applications
- 18 month publication
- *Basic* and *Equivalent* publications
- Continuations, CIPs, divisions

## Patent family timeline



## Patent Family databases

- EPO INPADOC
- DocDB
- Derwent WPI
- CAS CAPlus
- Questel.Orbit PLUSPAT
- Micropatent MPI INPADOC Plus
- DPMA DEPATISNet

## INPADOC

- Bibliography (PFS) for 72 issuing authorities
- Legal status (PRS) for 42 authorities (33 plus 9 authorities with entry/non-entry into the PCT national phase in the WO legal status)
- International, National and EPO classifications
- From 1968 to date
- Vendors: STN, Dialog, Questel.Orbit, Delphion
- Used by Questel.Orbit in *PLUSPAT* and Micropatent in *MPI-INPADOC Plus*



## INPADOC implementations

- **Dialog:** records based on pre-assembled *families*, including a Dialog defined *Basic Patent*
- **STN:** records based on *applications*, with multiple publication stages in the same record, families are displayed on-the-fly from all related records
- **Questel:** records based on *publications*, families can be gathered using FAM and then displayed; Legal Status implemented as a separate database
- Families are compiled/displayed using vendor specific algorithms – differences can occur!



## DocDB

- Bibliography for the same 72 authorities of INPADOC, but dating back to the 1900s
- International, National and EPO classifications
- Previously an internal database used by European Patent Office Examiners
- Backbone of the Esp@cenet service
- Used by Questel.Orbit in *PLUSPAT* and Micropatent in *MPI-INPADOC Plus*



## Derwent World Patents Index

- Bibliography for 40 patent issuing authorities
- Enhanced abstracts and titles
- Derwent classification and subject indexing
- International Classification
- Patent Assignee Codes
- Non-convention equivalents
- Dates back to 1963
- Vendors: Dialog, STN, Questel.Orbit, Thomson



## Chemical Abstracts Plus (CAplus)

- Chemical & life sciences
- Bibliography for 49 patent issuing authorities
- Journals, technology disclosures, conference proceedings and other sources
- Abstracts, titles, classification and indexing
- International and U.S. classification
- 1907 to date
- Vendors: STN/CAS



## PLUSPAT

- Based upon INPADOC and DocDB
- 72 authorities dating back to early 1900s
- Enhanced bibliography from national sources
- Patent Citations: US, EP, WO, GB, FR
- Updated US and ECLA patent classifications
- Front-page drawing images
- Each *application* is a separate record, families are assembled with FAM command before display



## MPI-INPADOC Plus

- Based upon INPADOC and DocDB
- 72 authorities dating back to early 1900s
- Enhanced bibliography from national sources
- Patent Citations: US, EP, WO, GB, **DE**
- Updated US and ECLA patent classifications
- Front-page drawing images
- Enhanced post-issuance legal status data
- Each *publication* is a separate record, patent families are assembled at display



## DEPATISNet

- Public-access version of DEPATIS, the database used by patent examiners at the German Patent and Trademark Office (DPMA)
- Not based upon INPADOC or DocDB
- Covers publications from 10 authorities: DE, EP, WO, DD, AT, CH, FR, GB, US, JP
- Document images back to the late 1800s
- IPC searching back to 1900
- Each publication is a record, patent families are compiled on-the-fly



## Understanding Families

- A simple comparative example
- Theory of patent family definitions
- An example to highlight the definitions



## A comparative example

L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2004 THOMSON DERWENT **DWPI on STN**

ACCESSION NUMBER: 2002-019162 [03] WPINDEX

TITLE: Colorless highly transparent polyamide blend useful for the production of e.g. profiled parts, films, plates, tubes, fibers, and bars contains phosphorous compounds.

INVENTOR(S): BUEHLER, F S; BUHLER, F S

PATENT ASSIGNEE(S): (INVE) EMS-CHEM AG; (BUHL-I) BUHLER F S

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
EP 1130059	A1	20010905	(200203)*	GE	13		
R: AL AT BE CH CY DE DK ES FI FR GB GR IE RO SE SI TR							
DE 10009756	A1	20010913	(200203)				
US 2001031805	A1	20011018	(200203)				
JP 2001310999	A	20011106	(200206)		9		
EP 1130059	B1	20021127	(200279)	GE			C08L077-02 <--
R: DE GB IT NL							
DE 50100062	G	20030109	(200305)				C08L077-02
US 6528560	B2	20030304	(200320)				C08K005-34
DE 10009756	B4	20040325	(200422)				C08L077-00

The asterisk \* indicates the Derwent Basic patent

Family members are in Derwent update order

## A comparative example

APPLICATION DETAILS:				DWPI on STN
PATENT NO	KIND	APPLICATION		
EP 1130059	A1	EP 2001-104187	20010221	Application and filing details help clarify the relationships between family members.
DE 10009756	A1	DE 2000-10009756	20000301	
US 2001031805	A1	US 2001-796907	20010228	
JP 2001310999	A	JP 2001-55733	20010228	
EP 1130059	B1	EP 2001-104187	20010221	
DE 50100062	G	DE 2001-10009756	20000301	
		EP 2001-104187	20010221	
US 6528560	B2	US 2001-796907	20010228	
DE 10009756	B4	DE 2000-10009756	20000301	
		EP 2001-104187	20010221	
FILING DETAILS:				Each patent family member quotes the same German priority application
PATENT NO	KIND	PATENT NO		
DE 50100062	G	Based on	EP 1130059	
PRIORITY APPLN. INFO: DE 2000-10009756				20000301

## A comparative example

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN						CAplus on STN
ACCESSION NUMBER:		2001:654715 HCAPLUS Full-text				
TITLE:		Colorless, highly transparent polyamide blends resistant to stress-cracking				
INVENTOR(S):		Buehler, Friedrich Severin				
PATENT ASSIGNEE(S):		EMS-Chemie A.-G., Switz.				
PATENT INFORMATION:						Family members are in Application Number order
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
EP 1130059	A1	20010905	EP 2001-104187	20010221 <--	Each patent family member quotes the same German priority application	
EP 1130059	B1	20021127				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO						
DE 10009756	A1	20010913				
DE 10009756	B4	20040325				
US 2001031805	A1	20011018	US 2001-796907	20010228		
US 6528560	B2	20030304				
JP 2001310999	A2	20011106	JP 2001-55733	20010228		
PRIORITY APPLN. INFO: DE 2000-10009756						
						20000301

## A comparative example

L1 ANSWER 1 OF 1 INPADOC COPYRIGHT 2004 EPO on STN

PATENT FAMILY INFORMATION

AN 157314019 INPADOC

**INPADOC on STN**

-----PRAI-----+		+-----AI-----+	
DE 2000-10009756	A 20000301	DE 2000-10009756	A 20000301
		DE 2001-50100062	A 20010221
		EP 2001-104187	A 20010221
		JP 2001-55733	A 20010228
		US 2001-796907	A 20010228
DE 2001-50100062	A 20010221	DE 2001-50100062	A 20010221
+-----AI-----+		+-----PI-----+	
DE 2000-10009756	A 20000301	DE 10009756	A1 20010913
		DE 10009756	B4 20040325
DE 2001-50100062	A 20010221	DE 50100062	C0 20030109
EP 2001-104187	A 20010221	EP 1130059	A1 20010905
		EP 1130059	B1 20021127
JP 2001-55733	A 20010228	JP 2001310999	A2 20011106
US 2001-796907	A 20010228	US 2001031805	AA 20011018
		US 6500560	BB 20000004

2 priorities, 5 applications, 8 publications

5 INPADOC records (*applications*) represent 8 separate publications.

## A comparative example

Colourless, highly transparent Polyamide blends with improved resistance to cracking






**Esp@cenet**

**Bibliographic data** | Description | Claims | Mosaics | Original document | INPADOC LEGAL status

**Patent number:** EP1130059  
**Publication date:** 2001-09-05  
**Inventor:** BUEHLER FRIEDRICH SEVERIN DR R (CH)  
**Applicant:** EMS CHEMIE AG (CH)  
**Classification:**  
 - international: C08L77/02; C08L77/06; C08K3/32; C08K5/49  
 - european: C08L77/06; C08L77/00  
**Application number:** EP20010104187 20010221  
**Priority number(s):** DE20001009756 20000301

[View INPADOC patent family](#)

**Also published as:**

-  US6528560 (B2)
-  US2001031805 (A1)
-  JP2001310999 (A)
-  DE10009756 (A1)
-  EP1130059 (B1)

Abstract of EP1130059  
 Phosphorus compounds are added to am...  
 improved tension crack resistance towards isopropanol (greater than 60 MPa) is obtained.  
 Colourless, highly transparent polyamide composition comprises (wt.%)

The Esp@cenet family comprises 6 publications: these only appear if a document PDF is available

Compact | Print

Family list  
8 family members for:  
**EP1130059**  
Derived from 5 applications.

Back to EP1130059

**Esp@cenet**

- Colorless, highly transparent polyamide blends with improved stress cracking resistance** in my patents list

Inventor: BUEHLER FRIEDRICH SEVERIN (CH) Applicant: EMS CHEMIE AG DOMAT (CH)  
EC: C08L77/00; C08L77/06 IPC: C08L77/00; C09J5/10; (+3)  
Publication info: **DE10009756 A1** - 2001-09-13  
**DE10009756 B4** - 2004-03-25
- Farblose, hochtransparente Polyamidblends mit verbesserter Spannungsrissebeständigkeit** in my patents list

Inventor: BUEHLER DR RER NAT (CH) **DocDB format number and patent kind code**  
EC: **DE50100062D D1** - 2003-01-09
- Colourless, highly transparent Polyamide blends with improved resistance to stress-cracking** in my patents list

Inventor: BUEHLER FRIEDRICH SEVERIN DR R (CH) Applicant: EMS CHEMIE AG (CH)  
EC: C08L77/06; C08L77/00 IPC: C08L77/02; C08L77/06; (+2)  
Publication info: **EP1130059 A1** - 2001-09-05  
**EP1130059 B1** - 2002-11-27
- COLORLESS, TRANSPARENT POLYAMIDE BLEND WITH IMPROVED STRESS-CRACK RESISTANCE** in my patents list

Inventor: BUHLER FRIEDRICH SEVERIN Applicant: EMS CHEMIE AG  
EC: IPC: C08L77/00; B65D65/02; (+5)  
Publication info: **JP2001310999 A** - 2001-11-06
- Colorless, highly transparent resistance** **Like STN, the Esp@cenet "INPADOC" family comprises 8 publications from 5 members (applications)**

Inventor: BUEHLER FRIEDRICH S  
EC: C08L77/00; C08L77/06 IPC: C08K5/34; C08K5/49; (+1)  
Publication info: **US6528560 B2** - 2003-03-04  
**US2001031805 A1** - 2001-10-18

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

**PLUSPAT on Questel.Orbit**

The PLUSPAT family was compiled here using the FAM command, and then displayed using MALL format

```

PN - EP1130059 A1 20010905 [EP1130059]
    EP1130059 B1 20021127 [EP1130059]
    DE10009756 A1 20010913 [DE10009756]
    DE10009756 B4 20040325 [DE10009756]
    DE50100062 D1 20030109 [DE50100062]
    JP2001310999 A 20011106 [JP2001310999]
    US2001031805 A1 20011018 [US2001031805]
    US6528560 B2 20030304 [US6528560]
TI - (A1) Colourless, highly transparent Polyamide blends with improved . . .
PA - (A1) EMS CHEMIE AG (CH)
PAO - EMS-Chemie AG, Domat/EMS [CH]
IN - (A1) BUEHLER FRIEDRICH SEVERIN DR R (CH)
AP - 2001EP-0104187 20010221; 2001DE-5000062 20010221; 2001JP-0055733 20010228;
    2001US-0796907 20010228; 2000DE-1009756 20000301
PR - 2000DE-1009756 20000301; 2001DE-5000062 20010221
IC - (A1) C08K-003/32 C08K-005/49 C08L-077/02 C08L-077/06
EC - C08L-077/00 &BN4; C08L-077/06 &BN4
PCL - 524099000 524102000 524117000 524123000 524126000
DS - (EP1130059)
    DE GB IT NL
CT - (EP1130059)
    Cited in the search report
    - US5886087(A) (Cat. A); EP659836(A) (Cat.
AB - (EP1130059)
    Phosphorus compounds are added to amorphous and . . .
  
```

MicroPatent's Patent Index Database - Mozilla

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Back Forward Reload Stop <http://www.micropat.com/cgi-bin/docdb/list.pl#>

Home Bookmarks Release Notes Plug-ins Extensions Support Mozilla Community

MicroPatent's Patent Index Database: [Complete Family of EP113005981]

8 record(s) found in the family

Order Selected Patent(s)

**DE10009756A1**  **20010913** [FullText](#)

**Title:** (GER) Farblose, hochtransparente Polyamid-Blends mit verbesserter Spannungsrissebeständigkeit und geringere Homogenität von Blends aus Polyamid gemä (II) verbessert. Auf der Basis der erfindungsgemäeYer Blends erhalten, die in Bezug auf Transparenz, Farbe Spannungsrissebeständigkeit gegenüber Isopropanol den mechanischen Eigenschaften resultieren. Gleichze Erhaltung optimaler Transparenz deutlich gesteigert v

**Abstract:** (GER) Die vorliegende Erfindung betrifft Poly Transparenz, Chemikalienbeständigkeit und geringe und die Homogenität von Blends aus Polyamid gemä (II) verbessert. Auf der Basis der erfindungsgemäeYer Blends erhalten, die in Bezug auf Transparenz, Farbe Spannungsrissebeständigkeit gegenüber Isopropanol den mechanischen Eigenschaften resultieren. Gleichze Erhaltung optimaler Transparenz deutlich gesteigert v

**Application Number:** DE 10009756 A

**Application (Filing) Date:** 20000301

**Priority Data:** DE 10009756 20000301 A A;

**Inventor(s):** BUEHLER FRIEDRICH SEVERIN CH

**Assignee/Applicant/Grantee:** EMS CHEMIE AG DOMA

**Last Modification Date:** 20040331

**IPC (International Class):** C08L07700; C09J00510; C

**ECLA (European Class):** C08L07700; C08L07706

**Other Abstracts for Family Members:** CHEMABS135(

**Legal Status:**

Date +/-CodeDescription  
20010913(+)/OP8 REQUEST FOR EXAMINATION AS TO

**DE10009756B4**  **20040325** [FullText](#)

**Title:** (GER) Farblose, hochtransparente Polyamid-Blends mit verbesserter Spannungsrissebeständigkeit und geringere Homogenität von Blends aus Polyamid gemä (II) verbessert. Auf der Basis der erfindungsgemäeYer Blends erhalten, die in Bezug auf Transparenz, Farbe Spannungsrissebeständigkeit gegenüber Isopropanol den mechanischen Eigenschaften resultieren. Gleichze Erhaltung optimaler Transparenz deutlich gesteigert v

**Application Number:** DE 10009756 A

**Application (Filing) Date:** 20000301

**Priority Data:** DE 10009756 20000301 A A;

**Inventor(s):** BUEHLER FRIEDRICH SEVERIN CH

Stage 2 Patent Family - "Extended"

Stage 2 Patent Family - "Extended"		Priorities and Applications	
CC DocNum	KD PubDate	CC AppNum	KD AppDate
<input type="checkbox"/> DE 10009756	A1 20010913	DE 10009756	A 20000301
<input type="checkbox"/> DE 10009756	B4 20040325	DE 10009756	A 20000301
<input type="checkbox"/> DE 50100062	D1 20030109	DE 50100062 DE 10009756	A 20010221 A 20000301
<input type="checkbox"/> EP 1130059	A1 20010905	EP 01104187 DE 10009756	A 20010221 A 20000301
<input type="checkbox"/> EP 1130059	B1 20021127	EP 01104187 DE 10009756	A 20010221 A 20000301
<input type="checkbox"/> JP 2001310999	A 20011106	JP 2001055733 DE 10009756	A 20010228 A 20000301
<input type="checkbox"/> US 2001031805	A1 20011018	US 79690701 DE 10009756	A 20010228 A 20000301
<input type="checkbox"/> US 6528560	B2 20030304	US 79690701 DE 10009756	A 20010228 A 20000301

8 Publications found.

Add Selected Documents to Order

DPMA Deutsches Patent- und Markenamt **DEPATISnet**

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Family > result list Beginner | Expert | Ikofox | Family | Assistant

Search query:  
EP1130059


Hits: 7 (Total hits: 7)

DEPATISNet has 7 publications in the family (DE-D1/C0 are not covered)

Result list:

No.	Publication number	Title	Display PDF	Patent family search
1	<a href="#">DE000010009756B4</a>	[DE] Farblose, hochtransparente Polyamid-Blends mit verbesserter Spannungsrissebeständigkeit		<a href="#">Search</a>
2	<a href="#">DE000010009756A1</a>	[DE] Farblose, hochtransparente Polyamid-Blends mit verbesserter Spannungsrissebeständigkeit		<a href="#">Search</a>
3	<a href="#">EP000001130059B1</a>	[ ] COLOURLESS, HIGHLY TRANSPARENT POLYAMIDE BLENDS WITH IMPROVED RESISTANCE ...		<a href="#">Search</a>
4	<a href="#">EP000001130059A1</a>	[DE] Farblose, hochtransparente Polyamidblends mit verbesserter Spannungsrissebeständigkeit ...		<a href="#">Search</a>
5	<a href="#">JP002001310999A</a>	[ ] COLORLESS, TRANSPARENT POLYAMIDE BLEND WITH IMPROVED STRESS-CRACK ...		<a href="#">Search</a>
6	<a href="#">US020010031805A1</a>	[ ] COLORLESS, HIGHLY TRANSPARENT POLYAMIDE BLENDS WITH IMPROVED STRESS ...		<a href="#">Search</a>
7	<a href="#">US000006528560B2</a>	[ ] COLORLESS, HIGHLY TRANSPARENT POLYAMIDE BLENDS WITH IMPROVED STRESS ...		<a href="#">Search</a>

DEPATISnet - Microsoft Internet Explorer

 **Deutsches Patent- und Markenamt** **DEPATISnet**

**Bibliographic data** Document EP000001130059B1 (Pages: 15)



Criterion	Field	Contents
Title	TI	[ ] COLOURLESS, HIGHLY TRANSPARENT POLYAMIDE BLENDS WITH IMPROVED RESISTANCE TO STRESS-CRACKING
Applicant	PA	EMS-CHEMIE AG
Inventor	IN	BUEHLER, FRIEDRICH SEVERIN, DR.RER.NAT.,DIPL.-CHEM.
Application date	AD	21.02.2001
Application number	AN	01104187
Country of application	AC	EP
Publication date	PUB	27.11.2002
Priority data	PRC	DE
	PRN	10009756
	PRD	20000301
IPC main class	ICM	C08L 77/02
IPC subclass	ICS	C08K 3/32 ; C08K 5/49 ; C08L 77/06
IPC additional information on description	ICA	
IPC index class	ICI	
Abstract	AB	

[Back to result list](#) | [Print](#) | [PDF display](#) | [Close](#)

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## Patent family definitions

- Broad: documents directly or indirectly linked via priority numbers (INPADOC)
- Middle: documents whose priorities are in common with a *Basic Patent* (WPI/CAPlus)
- Narrow: documents which have identical priority information (Esp@cenet)

## WPI and CAplus families

- Both databases define families as documents with priorities in common with a basic patent
- Both databases cross-reference extended families by Accession Number (WPI CR & CAplus FAN)
- However, WPI and CAplus do not always use the same “basic patent” for indexing/abstracting
- CAplus families are also reassembled to take any new priority relationships into account
- This means equivalents can be found in multiple CAplus records if complex relationships exist

## Theoretical example

<i><b>FAMILY P1</b></i>			
Document D1	Priority P1		
Document D2	Priority P1	Priority P2	
Document D3	Priority P1	Priority P2	
Document D4		Priority P2	Priority P3
Document D5			Priority P3

Publication order



INPADOC

Esp@cenet

Derwent WPI

CAPlus

## Practical example

<b>FAMILY</b>	<b>PRIORITY 1</b>	<b>PRIORITY 2</b>	<b>PRIORITY 3</b>
JP 2001302579 A2	JP 2000-124957		
JP 2001302580 A2		JP 2000-124958	
DE 10120024 A1	JP 2000-124957	JP 2000-124958	JP 2000-152867
JP 2001329264 A2			JP 2000-152867
US 2001050353 A1	JP 2000-124957	JP 2000-124958	JP 2000-152867
GB 2364050 A	JP 2000-124957	JP 2000-124958	JP 2000-152867
US 6623810 B2	JP 2000-124957	JP 2000-124958	JP 2000-152867

INPADOC

Esp@cenet

## Practical example (cont.)

Publication order

<b>FAMILY</b>	<b>PRIORITY 1</b>	<b>PRIORITY 2</b>	<b>PRIORITY 3</b>
JP 2001302579 A2	JP 2000-124957		
JP 2001302580 A2		JP 2000-124958	
DE 10120024 A1	JP 2000-124957	JP 2000-124958	JP 2000-152867
JP 2001329264 A2			JP 2000-152867
US 2001050353 A1	JP 2000-124957	JP 2000-124958	JP 2000-152867
GB 2364050 A	JP 2000-124957	JP 2000-124958	JP 2000-152867
US 6623810 B2	JP 2000-124957	JP 2000-124958	JP 2000-152867

Derwent WPI

CAPlus

## Non-convention equivalents

- Documents filed outside the terms of the Paris Convention, e.g. after the 12 month priority deadline or in non-signatory countries
- Documents without priority information which are equivalent to existing Derwent Basic patents
- Intellectually identified by Thomson Scientific and added to Derwent WPI - marked “ # ” online
- The non-convention equivalent’s application number becomes a priority in the DWPI record

**STN**

 FIZ KARLSRUHE

PATENT INFORMATION:						
PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
GB 2373252	A	20020918	(200303)*			
DE 10113506	A1	20020926	(200303)#			
FR 2822473	A1	20020927	(200303)#			
JP 2002265407	A	20020918	(200303)#		45	C07C045-28
US 2002133045	A1	20020919	(200303)#			C07C045-27
BR 2001003269	A	20021203	(200305)#			C09B023-02
WO 2002072709	A1	20020919	(200305)#	EN		C09B057-00
CN 1376660	A	20021030	(200314)#			C07C047-548
KR 2002074026	A	20020928	(200314)#			
US 6566557	B2	20030520	(200336)#			

**Derwent WPI on STN**

ACCESSION NUMBER: 2003-032277 [03] WPINDEX

TITLE: Preparation of substituted trans-cinnamaldehyde compounds used e.g. for coloring food, involves dissolving . . .

PATENT ASSIGNEE(S): (COUL) COUNCIL SCI & IND RES; (COUL) CSIR COUNCIL SCI IND RES; (DOGR-I) DOGRA R; (JOSH-I) JOSHI B P; . . .

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

-----

GB 2373252 A 20020918 (200303)\*

DE 10113506 A1 20020926 (200303)#

FR 2822473 A1 20020927 (200303)#

JP 2002265407 A 20020918 (200303)# 45 C07C045-28

US 2002133045 A1 20020919 (200303)# C07C045-27

BR 2001003269 A 20021203 (200305)# C09B023-02

WO 2002072709 A1 20020919 (200305)# EN C09B057-00

CN 1376660 A 20021030 (200314)# C07C047-548

KR 2002074026 A 20020928 (200314)#

US 6566557 B2 20030520 (200336)#

PRIORITY APPLN. INFO:

GB 2001-6430 20010315; DE 2001-10113506 20010320; FR 2001-3984 20010323;  
 JP 2001-68716 20010312; US 2001-805832 20010314; BR 2001-3269 20010322;  
 WO 2001-IN104 20010521; CN 2001-109192 20010322; KR 2001-14115 20010319

This DWPI record has a list of non-convention equivalents (#).

Non-convention equivalents have their application numbers posted to the Priority Application field.

L1 ANSWER 1 OF 1 INPADOC COPYRIGHT 2003 EPO

INPADOC on STN

TI PREPARATION OF SUBSTITUTED TRANS-CINNAMALDEHYDES BY CATALYTIC  
OXIDATION OF CORRESPONDINGLY SUBSTITUTED PHENYLPROPANE DERIVATIVES

PATENT FAMILY INFORMATION

AN 150387700 INPADOC

INPADOC has no equivalents  
listed for GB2373252 at all!!

+-----PRAI-----+

GB 2001-6430 A 20010315

+-----AI-----+

GB 2001-6430 A 20010315

+-----AI-----+

GB 2001-6430 A 20010315

+-----PI-----+

GB 2001006430 A0 20010502

GB 2373252 A1 20020918

1 priority, 1 application, 2 publications

**STN**

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## The need to use multiple databases

- Each database has unique historical, subject, authority and document type coverage
- Each database offers varying timeliness depending upon publication authority
- To be certain of the most complete patent family it is wise to check several databases
- E.g. the family of WO9707833

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## Patent family of WO9707833

<u>Number</u>	<u>Kind</u>	<u>Date</u>	<u>WPI</u>	<u>CAPLUS</u>	<u>INPADOC</u>
IT 95PD0167	A0	19950829	-	-	YES
IT 95PD0166	A0	19950829	-	-	YES
IT 95PD0167	A1	19970228	-	-	YES
IT 95PD0166	A1	19970228	-	-	YES
WO 9707833	A2	19970306	YES	YES	YES
CA 2230530	AA	19970306	-	YES	YES
AU 9669300	A1	19970319	YES	YES	YES
WO 9707833	A3	19970410	YES	YES	YES
NO 9800888	A0	19980227	-	-	YES
NO 9800888	A	19980427	YES	YES	YES
TR 9800353	T1	19980521	-	-	YES
IT 1284426	B1	19980521	YES	-	YES
IT 1284425	B1	19980521	YES	-	YES
EP 850074	A2	19980701	YES	YES	YES
PL 325240	A1	19980706	-	-	YES
MX 9801622	A1	19980801	YES	-	-




## Patent family of WO9707833 (cont)

<u>Number</u>	<u>Kind</u>	<u>Date</u>	<u>WPI</u>	<u>CAPLUS</u>	<u>INPADOC</u>
IL 123500	A0	19980924	-	-	YES
CZ 9800595	A3	19981014	YES	-	YES
CN 1199343	A	19981118	YES	YES	YES
KR 99044310	A	19990625	YES	-	-
SI 9620106	A	19990630	-	-	YES
BR 9610996	A	19990713	YES	YES	YES
NZ 316944	A	19990828	YES	-	YES
JP 11511344	T2	19991005	YES	YES	YES
HU 9903446	A2	20000228	YES	-	YES
AU 718484	B2	20000413	YES	YES	YES
NO 311605	B1	20011217	YES	-	YES
RU 2177332	C2	20011227	YES	YES	YES
IL 123500	A1	20030624	YES	YES	YES
PL 186859	B1	20040331	-	YES	YES
US 6723709	B1	20040420	-	YES	YES
CA 2230530	C	20040427	YES	-	-




## Timeliness: CAplus

- CAS core patent authorities
  - US, WO, EP, DE, JP, GB and FR
  - Preview bibliography online within **2 days**
  - Fully abstracted and indexed within 27 days
- Timeliness of non-core authorities varies greatly, e.g. CA 2-3 months

## Timeliness: Derwent WPI

- Derwent WPI *basic patent records* are posted online after value-added is completed
- *Basic patent* timeliness therefore varies greatly, e.g. Chem/Pharma PCTs at 35 days (May 2004)
- Preview bibliography is available in DWPI First View, typically within 10 days of publication
- *Equivalent patents* from major authorities appear in Derwent WPI within 7 days of publication
- Derwent WPI retains timeliness benefits over CAplus for non-core authorities, e.g. CA, KR, ZA

## Timeliness: INPADOC

- Records are typically in the file 1-4 weeks after publication, e.g. EP 2 days, US/WO 2 weeks
- Generally more timely than Derwent WPI for *Derwent Basic Patents*
- Generally less timely than Derwent WPI for *Derwent equivalent patents*
- INPADOC retains timeliness benefits over CAPlus for non-core authorities, e.g. CA, KR, ZA

## Timeliness: other files

- PLUSPAT & MPI-INPADOC Plus
  - WO and US bibliography within 2 days
  - Other authorities as INPADOC
- DEPATISNet
  - Varies, e.g. DE same day, US 3 weeks

## Summary

- Patent families mean different things to different database producers
- Authority, document type, historical and subject matter coverage varies between databases
- It is important to understand the features, benefits and limitations of each patent family database
- To be comprehensive it is necessary to check CAPLUS, INPADOC and Derwent WPI

## More information

- INPADOC:
  - <http://www.european-patent-office.org/inpadoc/>
- Derwent WPI:
  - <http://thomsonderwent.com/products/patentresearch/dwpi/>
- CAPLUS
  - <http://www.cas.org/ONLINE/DBSS/caplusss.html>
- Esp@cenet
  - <http://ep.espacenet.com/>
- PLUSPAT
  - <http://www.questel.orbit.com/EN/Prodsandservices/PlusPat.htm>
- MPI-INPADOC Plus
  - [http://www.micropat.com/0/mpi\\_inp\\_plus\\_final\\_011204.pdf](http://www.micropat.com/0/mpi_inp_plus_final_011204.pdf)
- DEPATISNet
  - <http://depatisnet.dpma.de/>

  
The logo consists of the letters 'S', 'T', and 'N' in a bold, blue, sans-serif font. The letters are three-dimensional, with a slight shadow underneath them, and they are reflected on a light blue surface below. A registered trademark symbol (®) is located to the upper right of the letter 'N'.

**STN<sup>®</sup>**

Patent Families and where to find them

Robert Austin – FIZ Karlsruhe