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(2010/07)

## **Enhanced Coverage of Citation Information in INPADOCDB and INPAFAMDB**

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Patent Citations are very useful sources to find additional prior art, to identify key patents of a particular area of technology and to see if a company is driven by innovative technologies.

The INPADOC databases cover patent citations for more than 12 mio applications from 21 patent authorities. These citations are a valuable source for analyzing the prior art provided by patent applicants and patent examiners.

# 1 Cited patent numbers enhanced with publication dates

Cited patent numbers are provided with their respective publication dates for all documents which are new or have been updated since March 2010. This new information is associated with two new search and select fields:

- the patent publication date of cited patents RPD (=PD.D)
- the patent publication year of cited patents RPY (=PY.D)

The publication dates of cited patents indicate to which extend a company cites relatively recent patents and is thus more innovative than a company whose patents cite older patents.

## ***Citation analysis based on the new PY.D: Analysis of Syngenta patents in the US published in 2010 according to the publication year of the cited patents in INPADOCDB***

### **=> S SYNGENTA/PA,PAS AND US/PC(S)PY=2010 AND REP/FA**

L1 51 SYNGENTA/PA,PAS AND US/PC(S)PY=2010 AND REP/FA

### **=> D TI PI RE**

L1 ANSWER 1 OF 51 INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN

TI Inbred corn line G07-NPIC3426.

PI US 7741544 B1 20100622

REP **US 7342152** **B1 20080311** (SEA, pat)

publication date of cited patent number /RPD

MONSANTO TECHNOLOGY LLC, US

REN (1) PVP certificate 9200123 filed Mar. 9, 1992 Issued Jul. 7, 1992. (APP)

REC 2. THERE ARE 2 CITED REFERENCES (1 PATENT, 1 NON PATENT) AVAILABLE FOR THIS RECORD.

### **=> ANA PY.D**

L3 ANALYZE L2 1- PY.D : 30 TERMS

### **=> D 1-**

L3 ANALYZE L2 1- PY.D : 30 TERMS

TERM #	# OCC	# DOC	% DOC	PY.D
1	24	16	31.37	2004/PY.D
2	20	11	21.57	2007/PY.D
3	17	6	11.76	1992/PY.D
4	15	13	25.49	2005/PY.D
5	15	9	17.65	1999/PY.D
6	14	8	15.69	1995/PY.D
7	13	8	15.69	2003/PY.D
8	13	5	9.80	1993/PY.D
9	12	8	15.69	1994/PY.D
10	12	7	13.73	2006/PY.D
11	11	10	19.61	2001/PY.D
12	11	7	13.73	2000/PY.D
13	11	7	13.73	2008/PY.D
14	10	9	17.65	1996/PY.D
15	10	4	7.84	1991/PY.D
16	10	3	5.88	1989/PY.D

.....

## 2 Improved coverage of applicant citations

The coverage of applicant citations for EP- and PCT-publications has been extended to cited applications numbers. These cited application numbers refer to

- patent applications followed by a patent publication: we cite the publication number in the field REP instead of the application number and indicate this with an asterisk \*
- pending applications (not yet published)
- US provisional applications (no publication)
- applications abandoned (no publication)

Referenced application information is searchable via the new search fields AP.D, AC.D and AK.D (see table), the corresponding display format is the REAI-format.

In the course of implementing the new citation data, various synonym field names have been introduced to be more consistent with the Patent Citation Index (PCI).

### Overview of search fields and display formats for citation information

referenced patent information			
cited patent number	RPN	<b>PN.D</b>	<i>display format</i> <b>REP</b>
cited patent country	RPC	<b>PC.D</b>	
cited patent kind code	RPK	<b>PK.D</b>	
cited patent publication date	<b>RPD</b>	<b>PD.D</b>	
cited patent publication year	<b>RPY</b>	<b>PY.D</b>	
referenced application information			
cited application number		<b>AP.D</b>	<i>display format</i> <b>REAI</b>
cited application country		<b>AC.D</b>	
cited application kind code		<b>AK.D</b>	
referenced non-patent literature			
cited non-patent literature	REN		<i>display format</i> <b>REN</b>
referenced XP-numbers			
XP-document number	REXP		<i>display format</i> <b>REXP</b>

The citation information (REP, REAI, REXP, REN) is available in the standard display formats RE, MAX, IMAX, MAXO, MAXO2 and IFAM.

=> D TI PA PI REP REAI	
L2	ANSWER 7 OF 42 INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN
TI	ELECTRODE ARRAY AND METHOD OF FORMING AN ELECTRODE ARRAY. RANGEE D'ELECTRODES ET PROCEDE DE FORMATION D'UNE RANGEE D'ELECTRODES.
PA	COCHLEAR AMERICAS; DADD, FYSH; HO, ANDY; MANOUCHEHRI, SHAHRAM; PAWSEY, NICHOLAS, CHARLES, KENDAL; SCHULLER, PETER; SIBARY, PETER, RAYMOND
PI	WO 2009065127 A1 20090522
REP	US 20060085055 A1 20060420 (ISR(US), pat, Cat: Y) COCHLEAR LTD, AU WO 2009065127 A1 20090522 (APP, pat) * COCHLEAR AMERICAS, US; DADD FYSH, AU; HO ANDY, AU; M SHAHRAM, AU; PAWSEY NICHOLAS CHARLES KENDAL, AU; SCH SIBARY PETER RAYMOND, AU
	<b>WO 2007050212 A2 20070503 (APP, pat) *</b>
	SECOND SIGHT MEDICAL PROD INC, US; ZHOU DAO MIN, US
REAI	<b>AU 2007906282 A (APP, pat)</b>
REC	12. THERE ARE 12 CITED REFERENCES (12 PAT

cited patent reference based on cited application info

application number cited by applicant /AP.D

### 3 Source of citation extended for PCT-applications

The patent citations in the INPADOC files originate mainly from patent examiner citations and to a smaller extent from applicant citations. Examiner citations of EP-publications mainly come from the search report, in addition some other sources are available like "citation revealed during opposition". Examiner citations for PCT-applications are reported separately since March 2010 depending on the kind of search report: International Search Report (ISR), Supplementary Search Report (SUP), International Preliminary Examination Report (CH2).

Source of citations (/SRT)		
<b>APP</b>	cited by applicant	AP*,AU*,BE,CH,CY,CZ*,DE,DK,EP,ES*,FI*,FR,GB*,GR,JP*,LU,NL,SG*,TR,US,WO
<b>SEA</b>	citation from search report	
<b>EXA</b>	revealed during examination	source of citations for <b>EP</b> -applications
<b>OPP</b>	revealed during opposition	
<b>115</b>	observation by third parties	
<b>ISR</b>	International Search Report	source of citations for <b>PCT</b> -applications
<b>SUP</b>	Supplementary Search Report	
<b>CH2</b>	International Preliminary Examination Report (chapter II)	

\* only citations from the search report

=> D T I P A P I R E

source of citation (/SRT) is the international search report ISR

  

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L2      ANSWER 1 OF 18      INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN
TI      FLAME-RETARDANT HOT-MELT TYPE ADHESIVE AGENT.
        AGENT ADHESIF DE TYPE THERMOFUSIBLE ININFLAMMABLE.
PA      HENKEL CORPORATION; ITO, SHOUKO; YOSHIDA, YOSHIO
PI      WO 2010038745      A1 20100408
AI      WO 2009-JP66964    W 20090929 Japanese
PRAI    JP 2008-254278     A 20080930 (JPA, 20100415, Y)
REP     JP 2002338826     A 20021127 (ISR(JP), pat, Cat: X)
        DAICEL CHEM
        JP 2006219565     A 20060824 (ISR(JP), pat, Cat: Y)
        TERAOKA SEISAKUSHO KK
        JP 2006232985     A 20060907 (ISR(JP), pat, Cat: Y)
        SHINETSU CHEMICAL CO
        JP 2006219564     A 20060824 (ISR(JP), pat, Cat: Y)
        TERAOKA SEISAKUSHO KK
REC     4. THERE ARE 4 CITED REFERENCES (4 PATENT, 0 NON PATENT) AVAILABLE FOR
        THIS RECORD.
    
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## 4 Search report office available for citations of PCT-applications

Citations from the international or supplementary search report of PCT-applications (ISR, SUP) are provided with details of the search report office which is indexed in the field /SRO. This information is available for all records which are new or have been updated since March 2010.

### *Example of a PCT-application filed with the Israel Patent Office*

PI	WO 2010052720	A1	20100514	
AI	WO 2009- <del>IL</del> 1053	W	20091110	
PRAI	US 2008-112785P	P	20081110	(USP, 20100527, Y)
REP	WO 2007107985	A2	20070927	(ISR( <b>US</b> ), pat, Cat: X)
	WEISMAN DAVID, IL			
	US 7072476	B2	20060704	(ISR(US), pat, Cat: Y)
	MATECH INC, US			
	US 5251263	A	19931005	(ISR(US), pat, Cat: Y)
	ANDREA ELECTRONICS CORP, US			

search report office (/SRO) for the international search is the U.S.P.T.O

PCT filing authority (/AC.WO) is the Israel Patent Office

This example illustrates that the PCT-filing authority and the patent office performing the international search are not necessarily the same. The U.S.P.T.O performed the international search on behalf of the Israel Patent Office. PCT-filings at the following offices have their international searches performed at another office: BR, DK, IL, IN, MX,NO and SG.

**Example illustrating the new citation information**

AN 58791333 INPADOCDB ED 20090618 EW 200925 UP 20100624 UW 201025  
 FN 38043265  
 TI WIRELESS COMMUNICATION METHOD, RADIO TRANSMITTER APPARATUS AND RADIO  
 RECEIVER APPARATUS.  
 PROCEDE DE COMMUNICATION SANS FIL, APPAREIL EMETTEUR RADIO ET APPAREIL  
 RECEPTEUR RADIO.  
 TL English; French  
 IN SAKAMOTO, TAKENORI; MATSUMOTO, TAISUKE; HASAKO, SATOSHI; FUJITA, SUGURU;  
 KOBAYASHI, MASASHI; YU, ZHAN  
 INS SAKAMOTO TAKENORI; MATSUMOTO TAISUKE; HASAKO SATOSHI; FUJITA SUGURU;  
 KOBAYASHI MASASHI; YU ZHAN  
 PA PANASONIC CORPORATION; SAKAMOTO, TAKENORI; MATSUMOTO, TAISUKE; HASAKO,  
 SATOSHI; FUJITA, SUGURU; KOBAYASHI, MASASHI; YU, ZHAN  
 PAS PANASONIC CORP, JP; SAKAMOTO TAKENORI; MATSUMOTO TAISUKE; HASAKO SATOSHI;  
 FUJITA SUGURU; KOBAYASHI MASASHI; YU ZHAN  
 DT Patent  
 PI WO 2009069306 A1 20090604  
 PIT WO/1 INTERNATIONAL APPLICATION PUBLISHED WITH INTERNATIONAL SEARCH REPORT  
 FDT WOx With international search report  
 DAV 20090604 examined-printed-without-grant  
 STA PRE-GRANT PUBLICATION  
 AI WO 2008-JP3505 W 20081127 Japanese  
 AIT WOW International application Number  
 PRAI JP 2007-311624 A 20071130 (JPA, 20090618, Y)  
 JP 2008-21786 A 20080131 (JPA, 20090618, Y)  
 PRAIT JPA Patent application  
 REC 8. THERE ARE 8 CITED REFERENCES (8 PATENT, 0 NON PATENT) AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.  
 REP JP 2007251486 A 20070927 (**ISR(JP)**, pat, Cat: A)  
**SEIKO EPSON CORP** → cited patent assignee name (standardized): **/PAS.D**  
 JP 05103023 A 19930423 (ISR(JP), pat, Cat: A)  
 MATSUSHITA ELECTRIC IND CO LTD  
 WO 2007052355 A1 20070510 (ISR(JP), pat, Cat: A)  
 MATSUSHITA ELECTRIC IND CO LTD, JP; ENG YEW SOO; YU ZHAN  
 WO 2005022799 A1 20050310 (ISR(JP), pat, Cat: A)  
 SONY CORP, JP; SUZUKI MITSUHIRO, JP  
 WO 2007148732 A1 20071227 (ISR(JP), pat, Cat: AP)  
 MATSUSHITA ELECTRIC IND CO LTD, JP; TAKAHASHI KAZUAKI; FUJITA SUGURU;  
 MATSUO MICHIAKI; MURAKAMI YUTAKA; HASAKO SATOSHI  
 US 7046748 B2 20060516 (APP, pat)  
 MITSUBISHI ELECTRIC CORP, JP  
 JP 2009153087 A 20090709 (APP, pat) \* → cited patent reference based  
 on cited application info  
 PANASONIC CORP  
**REAI** JP 2007311624 → cited application number: **/AP.D**  
 REC 8. THERE ARE 8 CITED REFERENCES (8 PATENT, 0 NON PATENT) AVAILABLE FOR  
 THIS RECORD.

## 5 Cited patent assignee names are now searchable

In February 2010 cited patent assignee names were added to the cited patent numbers and made available for display and analysis. Meanwhile the cited patent assignees are also searchable in the field PAS.D. This offers a new efficient way to identify main competitors of a company (see example). Each patent assignee name is indexed as bound phrase and single words. Compared to the PAS-field, the PAS.D does not have an implied (S)-proximity and multiple patent assignee names are regarded as one sentence.

### Search Example: Identify the main competitors of Hoffmann La Roche in the biotech area

#### => S (HOFFMANN ROCHE)/PAS.D

L1 0 (HOFFMANN ROCHE)/PAS.D  
( (HOFFMANN (W) ROCHE) /PAS.D)

no implied (S)-proximity for PAS.D

#### => S (HOFFMANN(S)ROCHE)/PAS.D

L2 41120 (HOFFMANN (S) ROCHE) /PAS.D

use (S)-proximity to search for the company Hoffmann La Roche

#### => S L2 AND C12N/IPC,EPC

L3 4236 L2 AND C12N/IPC,EPC

limit the search result to biotech patents with appropriate IPC and ECLA codes

#### => S L3 NOT (HOFFMANN ROCHE)/PAS

L4 62499 (HOFFMANN ROCHE) /PAS  
( (HOFFMANN (S) ROCHE) /PAS)  
3989 L6 NOT (HOFFMANN ROCHE) /PAS

remove self citations of Hoffmann La Roche

#### => ANA PAS

L5 ANALYZE L4 1- PAS : 3132 TERMS

analyze the standardized patent assignee names with ANA PAS

#### => D 1-10

L5 ANALYZE L4 1- PAS : 3132 TERMS

TERM #	# OCC	# DOC	% DOC PAS	
1	94	94	2.36	GENENTECH INC/
2	61	61	1.53	MAXYGEN INC/PAS
3	58	58	1.45	DSM IP ASSETS BV/PAS
4	52	52	1.30	BECTON DICKINSON CO/PAS
5	49	49	1.23	ABBOTT LAB/PAS
6	48	48	1.20	THIRD WAVE TECH INC/PAS
7	43	43	1.08	ROCHE VITAMINS INC/PAS
8	31	31	0.78	GEN PROBE INC/PAS
9	31	31	0.78	INVITROGEN CORP/PAS
10	31	31	0.78	ROCHE DIAGNOSTICS GMBH/PAS

Genentech Inc is one of the main competitors of Hoffmann La Roche in the biotech area