

STN[®]

Derwent World Patents Index[®]
Reloaded & Enhanced

2006 PIUG North East Meeting Workshop

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Agenda

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- DWPISM has been reloaded and enhanced
- New DWPI database record structure
- New publication (member) database content
- Enhancements to established DWPI features
- Exploring new precision search options
- Enhancements to Chemical Indexing (DCR)
- IPC Reform (IPC 8) in DWPI
- Other important changes in the reloaded DWPI

DWPI files WPINDEX/WPIDS/WPIX have been reloaded and enhanced

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- New database content has been added, e.g. elements of original patent text, USPTO patent classifications and more extensive bibliographic details
- Value-added Documentation Abstract and Chemistry Resource (DCR) backfile data have been added
- Database performance has been improved, including faster date range searching and no “stop words”
- DWPI files are now fully IPC Reform compliant, and include the new enhanced STN IPC thesaurus

Critical user request: please make all these changes to DWPI without adversely disrupting our existing workflow routines using the database.

DWPI records have a new two part structure - *invention* and *members*

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- The *invention* part comprises traditional DWPI content – patent family, enhanced abstract, etc
- The *members* part provides new additional data for each of the members (publications) listed in the invention (patent family) part of the record
- *Invention* and *members* parts are searchable and displayable separately or in combination

New DWPI database record structure 5

Invention (patent family)

Members (publications)



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LI ANSHWER 1 OF 1 WPIC COPYRIGHT 2006 THE THOMSON CORP ON STN
AN 2003-492242 [46] WPIC
CN 2003-852224
TI Optical fiber cable for use as transmission media has strength component
system comprising dielectric rods surrounded by frictional adhesion
coating which enables movement in response to compressive/tensural stress
AL7; A8; A89; P41; V07
IN MORRIS R H; SMALL R D; THOMAS P M; WEINANN P A
PA (FITE-N) FITE, USA CORP; (MORRIS-1) MORRIS R H; (SMAL-1) SMALL R D; (THOM-1)
THOMAS P M; (WEIN-1) WEINANN P A
FI US 2003044139 A1 20030306 (200346)* 9 G02B006-44
EP 1403671 A1 20040331 (200424) EN G02B006-44
US 678774 R2 20040817 (200454) G02B006-44
EP 1403671 B1 20050903 (200551) EN G02B006-44
ADT US 2003044139 A1 CIP OF US 1999-415881 19991008
US 2003044139 A1 US 2002-255852 20020925
US 678774 R2 CIP OF US 1999-415881 19991008
US 678774 B2 US 2002-255852 20020925
EP 1403671 A1 EP 2003-5730 20030313
EP 1403671 B1 EP 2003-5730 20030313
PFI US 678774 B2 CIP OF US 6511646 B
PRAI US 2002-255852 20020925
US 1999-415881 19991008
IC ICM G02B006-44
AN US 2003044139 A1
NOVELTY - An optical fiber cable (10) has plastic tube(s) (120), a jacket
(160), and a strength component system. The system has diametrically
opposed dielectric rods (300-1, 300-2) which extend parallel to
longitudinal axis, at least partially embedded in the jacket. Each rod is
surrounded by frictional adhesion coating which enables local movement
within the jacket in response to compressive/tensural stress.
DETAILED DESCRIPTION - An optical fiber cable (10) having a
longitudinal axis, comprises at least one plastic tube (120), a jacket
(160), and a strength component system. The plastic tube extends parallel
to the longitudinal axis and encloses several optical fibers (101). The
    
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Member(0001)
FI US 2003044139 A1 20030306 (200346)* EN 9[6] G02B006-44
TIEN Dielectric optical fiber cable having reduced preferential bending
AG Member(0002)
FI EP 1403671 A1 20040331 (200424) EN G02B006-44
IN MORRIS R H; SMALL R D; THOMAS P M; WEINANN P A
TIEN Dielektrisches faseroptisches Kabel mit reduzierter Biegeempfindlichkeit
PA (FITE-N) FITE, USA CORP; (MORRIS-1) MORRIS R H; (SMAL-1) SMALL R D; (THOM-1) THOMAS P M; (WEIN-1) WEINANN P A
FI US 2003044139 A1 20030306 (200346)* 9 G02B006-44
EP 1403671 A1 20040331 (200424) EN G02B006-44
US 678774 R2 20040817 (200454) G02B006-44
EP 1403671 B1 20050903 (200551) EN G02B006-44
ADT US 2003044139 A1 CIP OF US 1999-415881 19991008
US 2003044139 A1 US 2002-255852 20020925
US 678774 R2 CIP OF US 1999-415881 19991008
US 678774 B2 US 2002-255852 20020925
EP 1403671 A1 EP 2003-5730 20030313
EP 1403671 B1 EP 2003-5730 20030313
PFI US 678774 B2 CIP OF US 6511646 B
PRAI US 2002-255852 20020925
US 1999-415881 19991008
IC ICM G02B006-44
AN US 2003044139 A1
NOVELTY - An optical fiber cable (10) has plastic tube(s) (120), a jacket
(160), and a strength component system. The system has diametrically
opposed dielectric rods (300-1, 300-2) which extend parallel to
longitudinal axis, at least partially embedded in the jacket. Each rod is
surrounded by frictional adhesion coating which enables local movement
within the jacket in response to compressive/tensural stress.
DETAILED DESCRIPTION - An optical fiber cable (10) having a
longitudinal axis, comprises at least one plastic tube (120), a jacket
(160), and a strength component system. The plastic tube extends parallel
to the longitudinal axis and encloses several optical fibers (101). The
    
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Traditional DWPI content resides in the **Invention** (family) part of the record 6

- Thomson Scientific continues to apply its consistent routines to collate and de-duplicate data from individual publications to create the **invention** (patent family) part
- This means that the traditional, patent family based, enhanced content resides in the **invention** part of a new DWPI record

Existing DWPI display formats (D BIB, D ALL, etc) and the vast majority of search options are completely unchanged from the old file.

New DWPI **members** (publication) part provides new search & display features

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- Original titles, abstracts & main (1st) claim
- Full inventor names and addresses
- Original assignee names and addresses
- Attorney/agent names and addresses
- USPTO national classifications (INCL)

New Member (publication) data can be displayed using individual fields, e.g. Claims-in-English (CLMEN) or using the new Member (MEMB) format. Established DWPI display formats, e.g. ALL, remain unchanged.

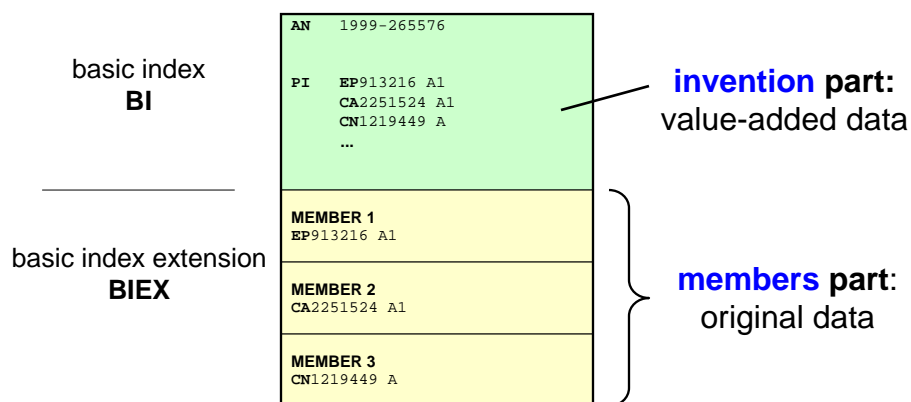


DWPISM Reloaded & Enhanced



The DWPI Basic Index is still formed from traditional value-added text

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This separation of **value-added** and **original** data provides fully functional new database content, while maintaining all the properties of the old database within the new database.



Extend your DWPI search to include original text by using the /BIEX field

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- Incorporating the Basic Index Extension (/BIEX) into your DWPI search can improve comprehensiveness
- On STN it is possible to search DWPI value-added and original patent text **separately** or **simultaneously**

```

=> FILE WPINDEX
=> S OPTICAL(W)(FIBRE# OR FIBER#) AND CABLE#
L1 14678 S OPTICAL()(FIBRE# OR FIBER#) AND CABLE#

=> SET SFIELDS BI BIEX PERM
SET COMMAND COMPLETED

=> S OPTICAL(W)(FIBRE# OR FIBER#) AND CABLE#
L2 16216 OPTICAL/BI,BIEX(W)(FIBRE#/BI,BIEX . . .
  
```

SET SFIELDS can be used to change the default search index.

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DWPISM Reloaded & Enhanced

STN

The **Invention** part of the new DWPI record is very similar to the previous file

10

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=> S L2 AND FITEL?/PA
L3 51 L1 AND FITEL?/PA

=> D FULL CLMEN 27

L3 ANSWER 27 OF 51 WPINDEX COPYR...
AN 2003-492242 [46] WPINDEX
CR 2003-851224
DNC C2003-131673 [46]
DNN N2003-390984 [46]
TI Optical fiber cable for use as a transmission system comprising dielectric material which enables movement in response to an electric field.
DC A17; A28; A89; P81; V07
IN NORRIS R H; SMALL R D; THOMAS P M; WEIMANN P A
PA (FITE-N) FITEL USA CORP; (NORR-I) NORRIS R H; (SMALL-I) SMALL R D; (THOM-I) THOMAS P M; (WEIM-I) WEIMANN P A
CYC 31
PI US 20030044139 A1 20030306 (200346) EN 9[6] G02B-6/44
EP 1403671 A1 20040331 (200424) EN G02B-6/44
US 6778744 B2 20040817 (200454) EN G02B-6/44
EP 1403671 B1 20050803 (200551) EN G02B-6/44
ADT US 20030044139 A1 CIP of US 1999-415881 19991008
US 20030044139 A1 US 2002-255852 20020925
US 6778744 B2 CIP of US 1999-415881 19991008
US 6778744 B2 US 2002-255852 20020925
EP 1403671 A1 EP 2003-5730 20030313
EP 1403671 B1 EP 2003-5730 20030313
FDT US 6778744 B2 CIP of US 6611646
PRAI US 2002-255852 20020925
US 1999-415881 19991008
  
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Existing DWPI search options are unchanged, e.g. Patent Assignee (/PA).

Display DWPI records using a custom combination of **Invention** and **Member** data, e.g. family with value-added abstracts (FULL) and claims in English (CLMEN).

Every patent family member now has a Language (/LA) Code.

The display layout of the DWPI enhanced abstract is unchanged

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AB US 20030044139 A1

NOVELTY - An **optical fiber cable** (10) has plastic strength component system. The system has diametrically opposed dielectric rods (300-1, 300-2) which extend parallel to longitudinal axis. . .

DETAILED DESCRIPTION - An **optical fiber cable** (10) having a longitudinal axis, comprises at least one plastic tube (120), a jacket (160), and a strength component system. The plastic tube extends parallel to the longitudinal axis and encloses several optical fibers (101). The jacket is made of a plastic. . .

USE - Used as transmission media.

ADVANTAGE - The **optical fiber cable** comprises dielectric rods having a compressive stiffness which is effective to inhibit contraction of the **cable**, and a tensile stiffness which is effective to receive tensile loads without transfer of such loads to the glass fibers. . . .

DESCRIPTION OF DRAWINGS - The figure shows the perspective view of an optical **cable**.

optical fiber **cable** (10)
 bundle (100)
 optical **fibers** (101)
 plastic tube (120)
 jacket (160)
 dielectric rods (300- 1, 300- 2)

TECH POLYMERS - Preferred Properties - The frictional adhesion coating has an adhesion per unit surface area of 50-300 pounds/square inch. The thickness of the . . .

ABEX EXAMPLE - Packages of glass filamentary strands were impregnated with a thermoset material e.g. epoxy resin and cross- linked urethane acrylate, which may be cured by thermal-treatment or by ultraviolet radiation. The glass fibers were then passed through a die to be consolidated

FS CPI; GMPI; EPI
 MC CPI: A12-L03A
 EPI: V07-F01B4

D FULL CLMEN display (cont).

Although it looks similar, all the DWPI abstract headings are now separately searchable and displayable fields, e.g. Use (/USE) and Advantage (/ADV).

The **members** part provides searchable and displayable main (1st) claim text

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Member(0001)

CLMEN US 20030044139 A1 UPCL 20060119

1. An **optical fiber cable** having a longitudinal axis and encloses a plurality of optical fibers; a jacket, which is made of a plastic material and which encloses the plastic tube; a strength member system comprising two diametrically opposed dielectric rods that extend parallel to the longitudinal axis and are at least partially embedded in the jacket, said rods having a compressive stiffness that is effective to inhibit substantial contraction of the **cable** and a tensile stiffness that is effective to receive a tensile load without substantial transfer of the tensile load to the optical fibers; wherein each rod is surrounded by a frictional adhesion coating that enables it to move locally within the jacket in response to compressive or flexural stress applied to the **cable**.

US 20030044139 A1

Member(0002)

CLMEN EP 1403671 A1 UPCL 20060119

An **optical fiber cable** (10) having a longitudinal axis (105-105), the **cable** comprising: at least one plastic tube (120) that extends parallel to the longitudinal axis and encloses a plurality of optical fibers (101); a jacket (160), which is made of a plastic material and which encloses the plastic tube; a strength member system comprising two diametrically opposed dielectric rods (300-1, 300-2) that extend parallel to the longitudinal axis and are at least partially embedded in the jacket, said rods having a compressive stiffness that is effective to inhibit substantial contraction of the **cable** and a tensile stiffness that is effective to receive a tensile load without substantial transfer of the tensile load to the optical fibers; X2003X2003X2003wherein each rod is surrounded by a frictional adhesion coating (330) that enables it to move locally within the jacket in response to compressive or flexural stress applied to the **cable**.

EP 1403671 A1

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Claims text can change from published application to granted patent stage

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Member(0003)
 CLMEN US 6778744 B2 UPCL 20060119 **D FULL CLMEN display (cont).**

What is claimed is: 1. An optical fiber cable comprising: at least one plastic tube that extends parallel to the longitudinal axis and encloses a plurality of optical fibers; a jacket, which is made of a plastic material and which encloses the plastic tube; a strength member system comprising two diametrically opposed dielectric rods that extend parallel to the longitudinal axis and are at least partially embedded in the jacket, said rods having a compressive stiffness that is effective to inhibit substantial contraction of the cable and a tensile stiffness that receives a tensile load without substantial transfer of force to the optical fibers; wherein each rod is surrounded by a frictional adhesion coating that enables it to move locally within the jacket in response to compressive or flexural stress applied to the cable.

Member(0004)
 CLMEN EP 1403671 B1 UPCL 20060119 **EP 1403671 B1**

An optical fiber cable (10) having a longitudinal axis (105-105), the cable comprising: at least one plastic tube (120) that extends parallel to the longitudinal axis and encloses a plurality of optical fibers (101); . . . to the longitudinal axis and are at least partially embedded in the jacket, said rods having a compressive stiffness that is effective to inhibit substantial contraction of the cable and a tensile stiffness that is effective to receive a tensile load without substantial transfer of force to the optical fibers; X2003X2003X2003wh is surrounded by a frictional adhesion coating (330) that enables it to move locally within the jacket in response to compressive or flexural stress applied to the cable characterized in that the frictional adhesion coating material (330) is selected from the group consisting of: (i) thermoplastic elastomers; (ii) thermally crosslinkable rubbers; and (iii) UV-curable crosslinkable rubbers.



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The new MEMB display format displays all the additional publication details

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=> D L3 FULL MEMB 27

L3 ANSWER 27 OF 51 WPIX COPYRIGHT 20
 AN 2003-492242 [46] WPIX

• • • •

Member(0001)
 PI US 20030044139 A1 20030306 (200346)* EN 9[6]
 TIEN Dielectric optical fiber cable having reduced
 AG Michael A. Morris, Fitel USA Corp.
 Suite F020, 2000 Northeast Expressway, Norcross
 IN NORRIS R H
 INO: Norris, Richard Hartford
 INA: Powder Springs, GA, US

PA (NORR-I) NORRIS R H
 PAO: Norris, Richard Hartford
 FAA: Powder Springs, GA, US

ADT US20030044139 A1 CIP of US1999-415881 19991008;
 US2002-255852 20020925
 APTS US1999-000415881; US2002-000255852
 ABEN An optical cable (10) includes one or more tubes
 number of optical fibers (101), and a plastic jacket
 the tube(s). A pair of diametrically opposed rods (300-1, 300-2) are at
 least partially embedded in the polyethylene jacket and are made from
 continuous-filament glass fibers that are embedded in epoxy. . . .
 CLMEN 1. An optical fiber cable having a longitudinal axis, the cable
 comprising: at least one plastic tube that extends parallel to the
 longitudinal axis and encloses a plurality of optical fibers; a jacket,
 which is made of a plastic material and which encloses. . . .

Use MEMB in combination with standard DWPI display formats, e.g. FULL.

Agent information (/AG) often includes corporation names for unassigned publications.

Full original Inventor names (/INO) and address details.

Original Assignee names (/PAO) and address details.



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Agenda

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- New DWPI database record structure
- **New publication (member) database content**
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- IPC Reform (IPC 8) in DWPI
- Other important changes in the reloaded DWPI

DWPI original publication text back-file

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<u>Authority</u>	<u>Titles</u>	<u>Abstracts</u>	<u>Main (1st) Claim</u>
US	1975 -	1975 -	1993 -
EP	1978 -	1978 -	1984 -
DE*	1968 -	2000 -	1968 -
WO	1978 -	1978 -	–
JP	1975 -	–	–
AU	2004 -	–	–
GB	2004 -	–	1984-1997

(* Original German language text)

DWPI original biblio back-file

17

<u>Authority</u>	<u>Inventor</u>	<u>Assignee</u>	<u>Agent</u>	<u>APTS*</u>
US	1975 -	1975 -	1975 -	1975 -
EP	1978 -	1978 -	1978 -	1978 -
DE	1968 -	1968 -	1968 -	1968 -
WO	1978 -	1978 -	1999 -	1978 -
JP	1977 -	1977 -	–	1977 -

(* APTS = Application Number, Thomson Scientific. On next slide)



DWPISM Reloaded & Enhanced



New Thomson Scientific application (/APTS) and priority (/PRTS) number backfile data

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- The **members** part of DWPI has a new backfile of application (/APTS) and priority (/PRTS) data
 - US applications and granted patents (1975-)
 - European applications and granted patents (1978-)
 - German applications, patents & utility models (1968-)
 - PCT applications (1978-)
 - Japanese applications (1977-)

Reminder: historic DWPI Application (AP) and Priority (PRN) Coverage:

- Prior to DWPI Update 197729 records were limited to maximum 10 priorities
- From Update 198409 application data (AP, AD) were captured for a limited set of authorities and document types
 - All technologies: WO, US (basics), EP, JP, DE, BE, GB, SU, NL (examined)
 - Chemical (CPI): NL (unexamined), FR, ZA
- From Update 199216 application data were captured for all authorities

New Thomson Scientific application (/APTS) and priority (/PRTS) backfile data (cont.)

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L1 ANSWER 1 OF 1 WPIX COPYRIGHT 2006 THE THOMSON CORP
AN 1983-850551 [51] WPIX
TI Through-the-lens focus detector e.g. for camera - has linear array of
e.g. CCD detectors arranged to receive light from objective lens through
varying pitch cylindrical lens elements
DC S06
IN KAWABATA T; KINOSHITA T; SAKAI S; SHINODA N
PA (CANO-C) CANON KK
CYC 1
PIA US 4419574 A 19831206 (198351)* EN 6[5]
ADT US 4419574 A
PRAI JP 1980-101317U 19800718
APTS US1981-000282605

L1 ANSWER 1 OF 1 WPIX COPYRIGHT 2006
AN 1991-357835 [49] WPIX
DNC C1991-154220 [21]
TI Cooling of thermoplastic film - by blowing cooling air with continuously
changing wind speed onto surface of casting drum through deceleration
filter which covers exhaust
DC A32
IN OSHIMA Y; TOU K
PA (FUJF-C) FUJI PHOTO FILM CO LTD
CYC 2
PIA JP 03239525 A 19911025 (199149)* JA
US 5091134 A 19920225 (199211) EN
JP 07115403 B2 19951213 (199603) JA 4[D]
ADT JP 03239525 A JP 1990-33822 19900216; JP 07115403 B2 JP 1990-33822
19900216; US 5091134 A
FDT JP 07115403 B2 Based on JP 03239525 A
PRAI JP 1990-33822 19900216
APTS JP1990-000033822; JP1990-000033822; US1991-000654468
    
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D BIB APTS displays

Additional application numbers may be available in the new /APTS field for many older DWPI records.

USPTO National Patent Classification

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- Main & secondary initial classes (INCL), are provided in the *members* (publication) part
 - US applications and granted patents (US-A, US-A1, US-B1/B2) since 1975

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L1 ANSWER 1 OF 1 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN
Member(0001)
AN 1977-03789Y [02]
TI Antioxidants for organic liqs. esp. ether - ether insol. Polymers
contg. substituted thiol contg. gps.
TIEN Oxidation stabilization
AG AG.TOT Benz, William H.
IN WEINSHENKER N M
INO: Weinshenker, Ned M.
INA: CA, US
PA (DYNL-C) DYNAPOL CORP
PAO: Dynapol Corporation
PI US 4000201 A 19761227 (197702)* EN
ADT US4000201 A US1974-511843 19741004
IC C07C041-12
IIC C07C041-12

INCL INCLM 568581000000
INCLS 252406000000; 558307000000; 562493000000

AB US 4000201 A
ABEN New method is for stabilising liq. lower alkyl linear ethers . . .
Organic liquids subject to oxidative decomposition, such as . . .
    
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Agenda

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Enhancements to established DWPI features

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- Text & numerical search performance has been improved – especially date searching, e.g. S PRY>1986
- Stop words – with, of, the, at, on, in, etc – have been removed, e.g. the “A” of “Bisphenol A” is now searchable
- Language indicators (/LA) assigned to all publications in the family, e.g. use S EN /LA to find DWPI records with English language patent family members
- A new /AB search field has been provided – comprises both the value-added abstract and original abstracts
- Simultaneous left & right truncation has been added to almost all DWPI text fields, e.g. S ?POLYMER?/TI,AB

New DWPI enhanced abstract subsection search & display fields

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<u>Field</u>	<u>Description</u>	<u>Availability</u>
NOV*	Novelty	1999-
DETD	Detailed Description	1999-
ACTN	Mechanism of Action	1999-
ACTV	Activity	1999-
ADV	Advantage	1984-
UADV	Use/Advantage	1984-
USE	Use	1984-
DRWD	Drawing Description	1999-
TECH*	Technology Focus	1999-
ABEX*	Abstract, Extension	1999-
ABDT	Abstract, Documentation	1994-1999

(* These fields were already available in DWPI before the reload)



DWPISM Reloaded & Enhanced



The subscriber file WPIX has a new Documentation Abstract backfile

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- A new *Documentation Abstract* text backfile (/ABDT) has been added to ~750,000 DWPI records from 1994-1999
 - ABDT is part of the default Basic Index (/BI) and has been added to the FULL, IFULL, MAX and new IMAX display formats
- The Extension Abstract field (/ABEX, 1999-date) has been added to the DWPI default Basic Index (/BI)
 - Modern-style *Documentation Abstracts* (AB + TECH + ABEX, 1999-date) remain available in DWPI exactly as before

Documentation Abstracts are the longest form of the value-add DWPI abstract, comprising the AB field plus additional details of preferred features of the invention, and typically a full example for chemical patents (CPI).



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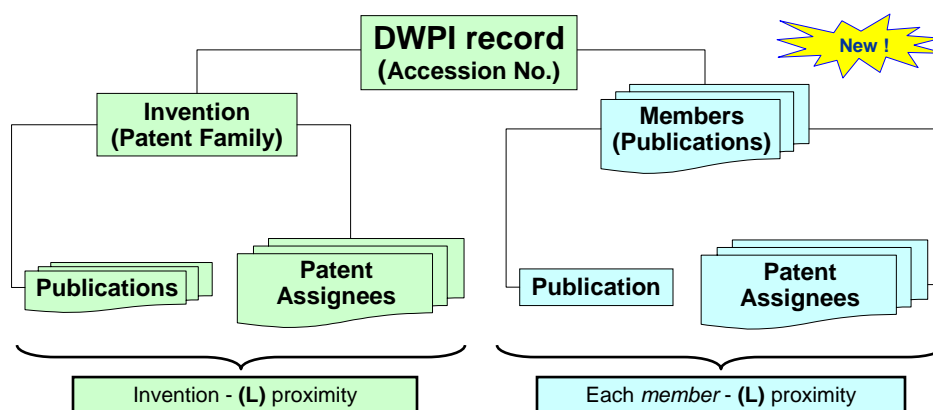
Agenda

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New DWPI database record structure

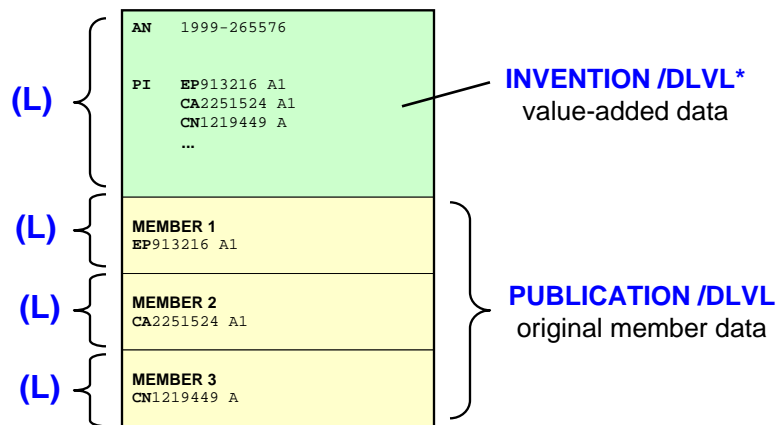
26



Note: Polymer and Chemical subscriber Indexing are associated with the WPI record separately, so their specialized proximity requirements work correctly

(L)-proximity can be used for precision searches within individual family members

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DLVL = Document Level. Options are INVENTION /DLVL or PUBLICATION /DLVL

Examples of precision searches which were not possible in DWPI before

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Example 1: restriction to the member level

DWPI records with [BASF publications in Japan](#)

Example 2: comprehensive company search

[Additional DWPI records for Syngenta using Agent data](#)

Example 3: use of the new abstract subsection search fields

[DWPI records concerning PDE4-Inhibitors from Pfizer](#)

Example 4: search with the full original inventor name

[DWPI records for the Inventor Ralf Michael Schmidt](#)

Example 5: search for specific address information

[Analysis of the Research Activities of companies based in Ireland](#)

Example 6: precision priority year search

[Search for records with a particular U.S. patent priority date range](#)

1. Retrieve DWPI records with BASF members (publications) in Japan

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=> S BADI/PACO (L) JP/PC (L) PUBLICATION/DLVL
L1      4567 S BADI/PACO (L) JP/PC (L) PUBLICATION/DLVL

=> D MEMBF 2000
L1      ANSWER 2000 OF 4567 WPIX COPYRIGHT 2006 THE
.....
Member(0013)
AN      1998-414023 [35] WPIX
.....
PI      JP 2001508458 W 20010626 (200140) JA 179 C07D413-10
.....
PA      (BADI-C) BASF AG
.....
ADT     JP 2001508458 W JP 19980108 W WO 1998-EP00069
.....
FDT     JP 2001508458 W Based on WO 1998031681
.....

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The new **MEMBF** display format displays **all** available member (publication) details

BASF is the assignee for the Japanese family member



DWPISM Reloaded & Enhanced



This BASF DWPI record would NOT be retrieved . . .

30

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AN      2002-443842 [47] WPIX
PA      (BADI-C) BASF NOF COATINGS CO LTD; (HOND-C) HONDA GIKEN KOGYO KK;
        (HOND-C) HONDA MOTOR CO LTD; (IKEH-I) IKEHARA S; (KOJI-I) KOJIMA K;
        (NAKA-I) NAKANE S; (NIRM-N) NIPPON RM KK; (SHIB-I) SHIBATO K
PI      WO 2002016520 A1 20020228 (200247)* JA
        RW: AT BE CH CY DE DK ES FI FR GB GR IE
        W: US
        JP 2002069366 A 20020308 (200247) JA
        JP 2002069374 A 20020308 (200247) JA
        US 20030040561 A1 20030227 (200318) EN
        US 6797391 B2 20040928 (200464) EN
        US 20040202873 A1 20041014 (200468) EN B32B009-04

Member(0002)
PI      JP 2002069366 A 20020308 (200247) JA 13 C09D151-08
TIEN    STAINPROOF COATING COMPOSITION CONTAINING MODIFIED RESIN, METHOD OF COATING FINISH
        AND COATED ARTICLE
PA      (NIRM-N) NIPPON RM KK
        PAO: NIPPON YUSHI COATINGS, KK
        (HOND-C) HONDA MOTOR CO LTD
        PAA: HONDA MOTOR CO LTD
        PAA: 1-1, Minamiayama 2-chome, Minato-ku, Tokyo 107-0062, JP
        Limitation: except US . . .

```

Although **BASF** is one of the assignees in the invention (family) part, the Japanese family member is actually assigned to **Nippon RM KK** and **Honda Motor Co Ltd**.

The new members (publication) part data provides improved bibliographic search precision

2. Retrieve additional DWPI records for Syngenta using Agent data

31

```

=> S SYNGENTA/PA,AG OR SYGN/PACO
L1      1120 SYNGENTA/PA,AG OR SYGN-C/PACO

=> D BIB MEMB
L1      ANSWER 1 OF 1120 WPINDEX COPYRIGHT 2006 THE THOMSON CORP on STN
AN      2005-710630 [73]
TI      Aqueous composition useful for applying insecticides to plant propa-
        gation materials, comprises water, nitroimino or nitroguanidino...
IN      RAMACHANDRAN R; SCHLATTER C
PA      (RAMA-I) RAMACHANDRAN R; (SCHL-I) SCHLATTER C
PI      US 20050215432 A1 20050929 (200573)* EN 12[0]
        . . . . .
Member(0001)
PI      US 20050215432 A1 20050929 (200573)* EN 12[0]          A01N-25/26
TIEN    Aqueous neonicotinoid compositions for seed treatment
AG      SYNGENTA CROP PROTECTION , INC., PATENT AND TRADEMARK DEPARTMENT
        410 SWING ROAD, GREENSBORO, NC, US
PA      (SCHL-I) SCHLATTER C
        PAO: Schlatter, Christian
        PAA: Greensboro, NC, US....
    
```

With the new search field **AG** 31 additional documents were found

This record would not have been retrieved without using the **AG** field



DWPISM Reloaded & Enhanced



3. Search for Specific DWPI records concerning PDE4-Inhibitors from Pfizer

32

```

=> S PFIZER/PA,AG OR PFIZ/PACO
L1      5626 PFIZER/PA,AG OR PFIZ/PACO

=> S L1 AND ((PHOSPHODIESTERAS? OR PDE)(2A)(4 OR IV) OR PDE4 OR
        PDEIV)(2A)(INHIBIT? OR BLOCK?)/ACTN
L2      35 L1 AND PHOSPHODIESTERAS? OR PDE)(2A)(4 OR IV) OR PDE4 OR ....

=> D TI ACTN ACTV USE
L1      ANSWER 1 OF 35 WPINDEX COPYRIGHT 2006 THE THOMSON CORP on STN
TI      Nicotinamide derivatives are useful for the treatment of e.g. asthma,
        rheumatoid arthritis, psoriasis or conjunctivitis (en)
ACTN    MECHANISM OF ACTION - Phosphodiesterase (PDE4) inhibitor
ACTV    ACTIVITY - Antiallergic; Antiinflammatory; Antiasthmatic; Protozoacide;
        Virucide; Respiratory-Gen.; Dermatological; Fungicide; Uropathic;
        Nootropic; Neuroprotective; Cardiant; Anti-HIV; . . . Hypotensive;
        Antiparkinsonian; Gastrointestinal-Gen.; Antiarteriosclerotic.
USE     USE - For the treatment of asthma (e.g. atopic asthma), wheezy infant
        syndrome, chronic or acute bronchoconstriction, chronic bronchitis,
        small airways obstruction, and emphysema, obstructive or inflammatory...
    
```

Use the **/ACTN** field to search the drug mechanism-of-action



DWPISM Reloaded & Enhanced



4. Search with full inventor name for the inventor Ralf Michael Schmidt

33

```

=> S SCHMIDT R/IN
L5      1513 SCHMIDT R/IN
=> S (RALF(P)MICHAEL(P)SCHMIDT)/INO
L6      26 (RALF(P)MICHAEL(P)SCHMIDT)/INO
=> D BIB HIT

L6      ANSWER 1 OF 26 WPINDEXR COPYRIGHT 2006      THE THOMSON CORP on STN
AN      2006-079406 [08] WPINDEXR
DNC     C2006-028718 [08]
TI      Method for increased production of transgenic plants with . . .
DC      C06; D16; P13
IN      FRANK, M; SCHMIDT, R; STAUDER, S
PA      (BADI-C) BASF PLANT SCI GMBH
PI      WO--2006000319 A2 20060105 (200608)* DE 96 /1
        DE102004030608 A1 20060126 (200609) DE
PRAI   DE 2004-102004030608 20040624

Member(0001)
INO     FRANK, Markus; SCHMIDT, Ralf-Michael;
        STAUDER, Sandra
    
```

Traditional Search

Publication Level Search

Invention Level

Member Level

FIZ KARLSRUHE

DWPISM Reloaded & Enhanced

STN

5. Analysis of the Research Activities of companies based in Ireland

34

```

=> S (IE OR IRELAND)/PAA (L) PY>1994
L1      5846 (IE OR IRELAND)/PAA(L)PY>1994
=> ANALYZE L1 MC LEN7
L2      ANALYZE L1 1- MC LEN 7 :      2993 TR
=> D 1-
L2      ANALYZE L1 1- MC LEN 7 :      2993 TR
    
```

PAA: Patent Assignee Address
(L)-Operator: Restricts to a single member within the publication level

The analysis of the **Manual Codes** shows the most important fields of research

TERM #	# OCC	# DOC	% DOC	MC
1	366	192	3.28	W01-A06
2	305	231	3.95	B12-K04
3	281	221	3.78	B04-C03
4	280	221	3.78	T01-J05
5	263	197	3.37	T01-N01
6	258	159	2.72	B04-C02
7	246	138	2.36	D05-H12
8	239	239	4.09	T01-S03
9	234	159	2.72	B14-J01
.....				

Digital Information Transfer
Drug Diagnostics
Polymers
Data Processing Systems
Internet-Applications
Polysaccharides
biotechn. Fermentation
Software
CNS-active Drugs

FIZ KARLSRUHE

DWPISM Reloaded & Enhanced

STN

6. Retrieve DWPI records with a US member with priority/application year earlier than 1996

35

```
=> S US/PC (L) (PRY<1996 OR AY<1996) (L) PUBLICATION /DLVL
L1      651705 US/PC (L) PRD<19960311 (L) PUBLICATION /DLVL

=> D MEMBF 2

L1      ANSWER 2 OF 651705 WPIX COPYRIGHT 2006
Member(0001)
AN      2005-809664 [82]
. . . .
TI      Query processing method in database management system . . .
PI      US 20050262045 A1 20051124 (200582)* EN 29[12] G06F-17/30
ADT     US20050262045 A1 Cont of US1994-180674 19940113; . . .
PRAI    JP1993-007804 19930120
. . . .
AB      US 20050262045 A1
NOVELTY - An input query is analyzed for generating processing . . .
ABEN    A database management system for executing database operations . . .
CLMEN 1-21. (canceled)
```

The new **MEMBF** display format displays **all** available member (publication) details

19930120 is the priority date of the US member (publication)

Agenda

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- DWPI has been reloaded and enhanced
- New DWPI database record structure
- New publication (member) database content
- Enhancements to established DWPI features
- Exploring new precision search options
- Enhancements to Chemical Indexing (DCR)
- IPC Reform (IPC 8) in DWPI
- Other important changes in the reloaded DWPI

Backfile enhancements for DWPI Chemistry Resource (DCR)

37

- The DWPI Chemistry Resource (DCR) is the specific compound database for DWPI
- All older backfile compound numbers (DCN, DRN) have been converted to DCR numbers
- This means it is no longer necessary to search for three numbers in DWPI to complete a search
- All backfile records will be retrieved following a DCR structure search using, e.g. S L2/DCR
- DCR compound numbers are now searchable in approximately 1.3 million DWPI records

More improvements for DWPI Chemistry Resource (DCR)

38

- The long form DCR number has been replaced by the short form, in a new DWPI Index Terms (IT) field
 - e.g. *IT 103568-PRD* rather than *KW 103568-0-0-0-PRD*
- DCR numbers now have a much wider range of roles to choose from – see HELP ROLES
 - E.g. => S L2/DCR (T) C/DCR (*C = Catalyst*)
- For subscribers using WPIDS/WPIX further refinement is now possible with a new (P) proximity between DCR numbers and fragmentation codes, e.g. use/application
 - E.g. => S L2/DCR (P) P421/M2 (*P421 = anti-arthritic*)

Note: in the above examples **L2** is the result of a structure search in DCR.

More improvements for DWPI Chemistry Resource (DCR) (cont.)

39

=> D IT CMC

L1 ANSWER 1 OF 1 WPINDEX

The long form DCR number has been replaced by the short form, in a new DWPI Index Terms (IT) field

IT UPIT 20060206

75191-CL 75191-PRD; 0003-37201-CL 0003

DCR numbers now have a much wider range of roles to choose from

CMC UPB 20060206

M2 *01* G010 G100 J0 J011 J1 J171 M280 M312 M321 M331 M340 M342 M372
M391 M414 M510 M520 M531 M540 M720 N182 N200 N512 N513 P411 P420

(P) P422 Q233 M905 M904

DCN: R08830-K R08830-P

DCR: 75191-K 75191-P

New (P) proximity between DCR numbers and fragmentation codes

M2 *02* B414 B514 B614 B720 P411 P422 Q233 M905 M904

DCN: R08830-K R08830-P

DCR: 75191-K 75191-P

Note: Questel.Orbit MMS compound numbers are now indexed in two STN fields: Markush (/MCN) and specific (/DCN)

Uploading C:\Program Files\STNEXP\Queries\CARBAPENEM.str

L1 STRUCTURE UPLOADED

DWPI (DCR) structure search example

=> S L1 FUL

L2 724 SEA SSS FUL L1

=> S L2/DCR (T) T/DCR

L3 161 S L2/DCR(T)T/DCR

New DCR role searching, e.g.
T = Therapeutic Use

=> D TI PN HITSTR CLMEN 37

L3 ANSWER 37 OF 161 WPINDEX COPYRIGHT 2006 THE THOMSON CORP on STN

TI New rapid melt, semi-solid molded antibiotic compositions . . .

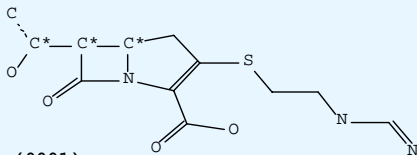
PI US 20020004071 A1 20020110 (200216)* EN 12[0]

DCR 97728-K 97728-M 97728-T

DCSE 97728-1-0-0

CN.P IMIPENEM

CN.S 3-(2-Formimidoylamino-ethylsulfanyl)-6-(1-hydroxy-ethyl)-7-oxo-1-aza-bicyclo[3.2.0]hept-2-ene-2-carboxylic acid



DCR hit structure (HITSTR) can be displayed with patent family and main claim text.

Member(0001)

CLMEN US 20020004071 A1 UPCL 20060118

What is claimed is: 1. A rapid melt, semi-solid molded composition . . .

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Agenda

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- DWPI has been reloaded and enhanced
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- Enhancements to established DWPI features
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- **IPC Reform (IPC 8) in DWPI**
- Other important changes in the reloaded DWPI

Key features of IPC Reform

42

- Classification divided into Core and Advanced levels
- Reclassification of older documents
- More in-depth indexing of disclosure in addition to the claims
- More frequent revisions planned

IPC reform core and advanced levels

43

Advanced level

G02C SPECTACLES

- 5/00 **Constructions of non-optical parts**
- 5/02 . . Bridges; Browbars; Intermediate bars
(nose-engaging surfaces 5/12)
- 5/04 . . . with adjustable means
- 5/06 . . . with resilient means
- 5/08 . . . foldable
- 5/10 . . . Intermediate bar or bars between
bridge and side-members
- 5/12 . . Nose pads; Nose engaging surfaces
of bridges or rims
- 5/14 . . Side-members
- 5/16 . . . resilient or with resilient parts
- 5/18 . . . reinforced
- 5/20 . . . adjustable, e.g. telescopic
- 5/22 . . Hinges (pivotal connection in
general F 16 C 11/00)

Core level

G02C SPECTACLES

- 5/00 **Constructions of non-optical parts**
- 5/14 . . Side-members
- 5/22 . . Hinges (pivotal connection in
general F 16 C 11/00)

There have been many changes to DWPI to accommodate IPC reform

44

- New IPC Reform format added
 - For 2006 records
 - For backfile reclassified records
 - 8 digit number for group IPC
 - Advanced subgroups with additional digits
- New IPC Thesaurus features
- New search, display, and select fields
- New SET command

IPCs can be searched in either pre-reform or IPC Reform format

45

- IPC super field (/IPC) redefined to accept **either** form of the IPC code
 - Search pre-reform (IPC 1-7) codes without reformatting in the revised /IPC field
 - Search code in IPC Reform format
- Use old IPC fields **only** for pre-reform codes: IC, ICM, ICS, ICA, ICI

New search fields provide additional flexibility to STN files

46

- **IPC** (IPC super field)
 - Redefined to include both post and pre-reform IPCs
 - Includes patent family members as well as basics
- **IPC.REF** (Reform IPC codes)
 - 2006 IPC 8 and IPC 8 backfile reclassified documents
 - *This field is not present in other STN databases*
- **IPC.KW** (IPC Keyword)
 - Contains IPC code metadata “descriptor keywords”
- Use the (**S**) operator to link codes with keywords
 - E.g. => S A61K0001-01/IPC (**S**) HUMAN /IPC.KW

IPC Reform metadata keywords are searchable in the IPC.KW field

47

- **Code Types:** Main (ICM), Secondary (ICS), Index (ICI), or Additional (ICA)
- **Code Status:** Initial (IPCI), Reclassification (IPCR or R), Current (Cur), Original (O), Updated (U)
- **Code Value:** Invention (I), or Non-invention (N)
- **Code Level :** Core (C), Advanced (A), Subclass (S)
- **Code Source:** Human, Machine, or Software
- **Code Position:** First (F), or Later (L) in the list

Two fields were added to restrict by date

48

- **IPC.ACD** (IPC Action Date)
 - Indicates when the IPC code was applied to the patent or updated
- **IPC.VER** (IPC Version date)
 - Date associated with the last version
 - Search with YYYYMM or YYYYMMDD format
 - Displays in YYYYMM format

IPC Reform codes are provided in the **invention** part and in the **members** part

49

- For the DWPI **invention** (patent family) part
 - Search & display options for records containing IPC version 1-7 classes remain in place – IPC Reform is indexed in new fields
 - Only the latest IPC Reform codes will be displayed at the invention level (either IPCI or IPCR)
- Each of the DWPI **members** (publications) have
 - Initial “Original IPCs” (IPCI) as published on the document
 - Any reclassified “Latest IPCs” (IPCR) for that publication
- Display formats IPC and IPC.TAB display the **invention** part IPC data – the format IPC.TAB.M displays the complete metadata details from the **members** part

DWPI IPC Reform display formats

50

=> D IPC

```
L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 20
IPCI A61K0038-22 [I,A]
```

IPC display is the simple family (**invention**) de-duplicated list of IPCs.

=> D IPC.TAB

```
L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 20
IPC CODE VERSION POS INV
-----
IPCI A61K0038-22 (200601) F I Advanced o
```

IPC.TAB display is the tabular family (**invention**) de-duplicated list of IPCs.

=> D IPC.TAB.M

```
L1 ANSWER 1 OF 1 WPINDEX COPYRIGHT 20
Member(0001)
IPC CODE VERSION POS INV LEVEL CC ASSIGNMENT DATE STAT
-----
IPCI A61K0038-22 (200601) F I Advanced US Human o

Member(0002)
IPC CODE VERSION POS INV LEVEL CC ASSIGNMENT DATE STAT
-----
IPCI A61K0038-22 (200601) F I Advanced US Human 20060323 o
```

IPC.TAB.M display is the full IPC metadata details from all publications (**members**) in tabular form.

The IPC 8 Thesaurus is available for DWPI on STN

51

- The IPC 8 thesaurus includes
 - Labels for Core and Advanced codes
 - Relationship codes for Core and Advanced codes (+CORE, +ADVANCED)
 - Identification of valid pre-reform editions
 - Identification of valid date IPC ranges
- Separate thesauri are also available for IPC Editions 1-7

Identify codes using the IPC Thesaurus

52

```
=> E C01B0031-06+ALL/IPC
E29      0   BT6   C/IPC
          SECTION C - CHEMISTRY; METALLURGY

...

E34  14212  BT2   C01B0031-00/IPC
          Carbon; Compounds thereof (C01B0021-00, C01B0023-00
          take precedence; percarbonates C01B0015-10; carbon
          black C09C0001-48; gas carbon production C10B)
          CORE
          VALID FROM 19680901 TO PRESENT ( PC EDITION: 1-8 )
E35   6252  BT1   C01B0031-02/IPC
          . Preparation of carbon (by using ultra-high pressure,
          e.g. for the formation of diamonds, B01J0003-06; by
          crystal growth C30B); Purification
          ADVANCED
          VALID FROM 19680901 TO PRESENT ( IPC EDITION: 1-8 )
E36   1231  -->  C01B0031-06/IPC
          . . Diamond
          ADVANCED
          VALID FROM 19680901 TO PRESENT ( IPC EDITION: 1-8 )

***** END *****
```

IPC range searching may be more focused than using +NT

53

```
=> S A61K0008-18:A61K0008-21/IPC
L1 4929 A61K0008-18:A61K0008-21/IPC (4 TERMS)
      (A61K0008-18+NEXT3)/IPC
```

- Either a colon or dash can be used as the separator, with or without spaces
- This range search includes the initial term and the next 3 that follow in the thesaurus
- Range searching using MGR and SGR is only valid for pre-reform IPCs

SET ICFORMAT ON provides IPC 8 format for pre-reform codes

54

- Use SET command to provide IPC 8 formats for pre-reform codes
 - => **SET ICFORMAT ON**
- May be set permanently using **PERM**
- Provides IPC 8 formats for pre-reform codes
 - Displays pre-reform code in IPC 8 format
 - Creates IPC 8 term when using SELECT
 - Provides consistent crossfile format

IPC SELECT and ANALYZE codes are available for IPC Reform data 55

- **IPC** All IPC Codes
- **IPC.F** First listed IPC 8 and the old ICM codes
- **IPC.A** Selects all advanced level
- **IPC.AI** Selects all advanced level invention
- **IPC.C** Selects all core level
- **IPC.CI** Selects all core level invention
- **IPCI** IPC Initial Classification
- **IPCR** IPC Reclassification

How does IPC Reform affect my SDIs / Alerts? 56

- Review any current-awareness alerts (SDIs) and saved searches with IPCs to determine if you need to make changes
- Change to the **IPC** field to include patents issued with IPC Reform codes
- IPC Reform codes will not be added to ICM, ICS, ICI, ICA, and IC fields
- Check codes to see if they are still valid or if other codes may be more accurate

Agenda

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- DWPI has been reloaded and enhanced
- New DWPI database record structure
- New publication (member) database content
- Enhancements to established DWPI features
- Exploring new precision search options
- Enhancements to Chemical Indexing (DCR)
- IPC Reform (IPC 8) in DWPI
- Other important changes in the reloaded DWPI

Other important changes in the reloaded DWPI

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- Within DWPI records all elements of each *member* (publication) are associated together with the (L) proximity operator. All elements of the *invention* (family) part are also associated with (L) proximity
 - Previously (L) proximity operated on a field, e.g. the abstract
 - In the new reloaded DWPI file use (P) to restrict terms to a field
- Entry Dates (/ED) and other update dates (except /UPP) from the old DWPI file are not available before 20060209
- Two character kind codes, e.g. USA1, are no longer retrieved by searching a single letter code, e.g. USA/PK
- Standard PACOs have now a type 'C' assigned, but will be still searchable without the suffix, e.g. DUPO-C

Other important changes in the reloaded DWPI (cont.)

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- US published applications changed from a 10 to an 11 digit serial number, e.g. US 20030044139 A1
- All Pre-2000 application/priority numbers now have a four digit application year, e.g. US1992-123456/AP
 - Previous 2-digit format remains searchable, US92-123456/AP
- New *DWPI format* application and priority numbers have the serial the number filled out with leading zeros to nine digits (except German application/priority numbers)
 - E.g. 2000US-493917/AP becomes 2000US-000493917/AP
 - Previous *DWPI format* remains searchable, 2000US-493917/AP
 - STN format is unchanged, US2000-493917/AP
- The old Patent Citation (REP) field is no longer available

Existing saved answer sets & SDIs will move straight into the new DWPI file

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- Unless you wish to add the new DWPI content there is no need to edit or update your SDIs
 - Familiar DWPI display formats are all still available and have not changed substantially in layout
 - SDIs will continue as before and the histories of previously retrieved documents are preserved
- Saved answer sets from the old file are available for activation in the in the DWPI database
 - Highlighting will not be available for KWIC or HIT in the new file from answer sets created in the old file

DWPI reloaded & enhanced summary of the important changes

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- New database content has been added, e.g. elements of original patent text, USPTO patent classifications and more extensive bibliographic details
- Value-added Documentation Abstract and Chemistry Resource (DCR) backfile data have been added
- Database performance has been improved, including faster date range searching and no “stop words”
- DWPI files are now fully IPC Reform compliant, and include the new enhanced STN IPC thesaurus

Critical user request: please make all these changes to DWPI without adversely disrupting our existing workflow routines using the database.

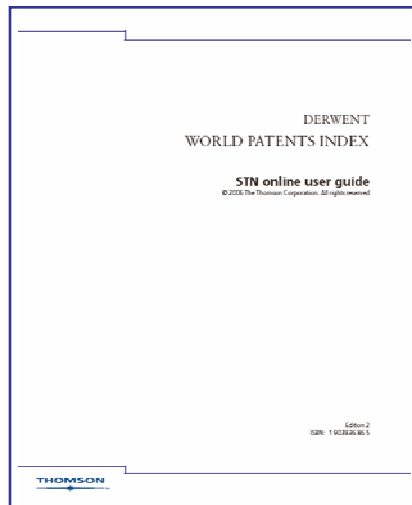
DWPI reloaded & enhanced summary of the important changes (cont.)

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- The traditional look and feel of DWPI has been preserved, while simultaneously incorporating data not previously seen in DWPI, e.g. claims text
- DWPI has an enhanced document structure comprising **invention** (family) and **members** (publication) parts providing space for various new types of data
- Add original patent text to a DWPI search by including the **Basic Index Extension (/BIEX)** search field, and display the new data, e.g. with specific fields or the new **MEMB display format**

New DWPI on STN User Guide!

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Available now at (PDF):

www.stn-international.com/training_center/patents/stn_guide.pdf

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DWPISM Reloaded & Enhanced





Derwent World Patents Index® (DWPISM) - Reloaded - Mozilla Firefox

http://www.stn-international.com/stndatabases/details/dwpi_r.html

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Derwent World Patents Index® (DWPISM) - Reloaded & Enhanced

- Summary of the DWPI Reload Enhancements
- DWPI Reloaded & Enhanced Workshop Slides (2006 PIUG Annual Meeting)
- Summary Table of New DWPI Original Publication Data Content
- New DWPI on STN User Guide (05/2006 Edition)
- DWPI Reload Frequently Asked Questions (FAQ)

Summary of the DWPI Reload Enhancements

A complete reload of the Derwent World Patents Index® (DWPISM) database will be released on STN (files WPINDEX, WPIDS and WPI). The reloaded database will offer many new and enhanced features for patent searchers, including all the benefits of the recently introduced dynamic International Patent Classification (IPC) system. Thomson Scientific and FIZ Karlsruhe have taken great care to ensure that all existing features of DWPI have been maintained, while at the same time offering an array of new ways in which to display and retrieve the enhanced database content. A summary (PDF) of these enhancements is available.

You will benefit from extensive additional data

- Original patent titles, abstracts and main claim text
- Additional bibliographic details – including full patent inventor names
- The new dynamic International Patent Classification (IPC) system
- Issued USPTO National Patent Classification backfile
- Language indicators for all patent publications
- A new backfile of text-searchable extended value-add abstracts
- Enhanced back-file for chemical structure searches

Visit www.stn-international.com for the latest DWPISM Reload news and reference materials

http://www.stn-international.com/

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Help Desk assistance

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- STN/CAS Help Desk
 - Phone: 800-753-4227
 - Email: help@cas.org
 - www.cas.org/stn.html
- Thomson Scientific Help Desk
 - Phone: 800-336-4474
 - Email: ts.support.americas@thomson.com
 - www.thomsonscientific.com



DWPISM Reloaded & Enhanced



STN[®]

Derwent World Patents Index[®]
Reloaded & Enhanced

www.stn-international.com

Summary Table of New Derwent World Patents Index® (DWPISM) Data from Original Patent Filings

Patenting Authority	Type: Kind Codes	Original Title	Original Abstracts	Main Claim	Inventor Full Name and Address	Original Assignee Name and Address	Legal Rep/ Agent Name and Address	USPTO Initial Classification
WIPO/PCT	Applications: A1, A2	1978+	1978+	—	1978+	1978+	1999+	—
European Patent Office	Applications & Granted patents: A1, A2, B1, B2	1978+ (E,F,G) ¹	1978+ (E) ¹ 2000+ (F,G) ¹	1991+ ³	1978+	1978+	1978+	—
Australia	Applications: A	2004+	—	—	—	—	—	—
Germany	Applications, Granted patents & Utility models: A1, B1, B2, B3, B4, C1, C2, U1	1968+	2000+	1968+	1968+	1968+	1968+	—
Japan	Applications: A	1975+ ²	—	—	1977+ ⁴	1977+ ⁴	—	—
United Kingdom	Granted patents: B	2004+	—	1984 - 1997 ⁵	—	—	—	—
United States	Applications & Granted patents: A, A1, B1, B2	1975+	1975+	1993+	1975+	1975+	1975+	1975+

¹ E=English, F=French, G=German

² English from machine-assisted translation

³ 1984+ for Kind B1 and B2 patents

⁴ Name only, no address data

⁵ Updates 198409–199751