Tips for Running Current Awareness Searches in Patent Files

In this session, you will learn how to

- ❑ Run a single-file SDI
- ❑ Use command files for manual current awareness searches
- ❑ Choose an update code based on the profile and patent database
- ❑ Run a multifile SDI
- ❑ Run a SmartTracker SDI

FIZ KARLSRUHE
STN EUROPE

CAS®

Session Agenda

- Overview
- Single-file SDIs
  - SDI command
  - STN on the Web Alert (SDI) Assistant
  - STN Express with Discover! wizard
- Manual current awareness searches using command files
- Choosing update codes
  - INPADOC
  - WPINDEX
  - DPCI
- Multifile SDIs
- SmartTracker SDIs

Overview

Current awareness searches are useful for the surveillance of specific research topics, competitors, inventors, and regional markets. They provide an efficient method of monitoring for potential patent infringement.

Examples of questions that current awareness searches answer include

- What is the state of the art in an area?
  - New literature – technical and patent
  - New substances – sequences, polymers, compounds
  - Business news and marketing literature
- What new technology/patents have been described from key competitors?
- What is the status of known patents?
  - New family equivalents
  - New granted patents
  - Post-issue office actions, e.g., oppositions
  - Patent expiry dates
- Who is citing our patents in an area?

Update Codes

Depending on the current awareness application, different update codes may be appropriate.

Database	Search field	Linked SDI	Use when searching for
INPADOC	/EDP	-	New applications (first entry into the database)
	/ED	-	New applications and further publications of a patent in national sequence
	/EDPR	-	New priority numbers = new patent families
	/UP	-	New applications, further publications of a patent in various nations and corrections of bibliographic data
	/UPLS	-	New information in legal status
	/UPM	-	All changes referring to bibliographic data and legal status (UP+UPLS)
WPINDEX	/ED	-	New documents = new basics
WPIDS	/UP	P-proximity	New documents, continuations and corrections
WPIX	/UPAB	P-proximity	Documents with abstracts, additional abstracts or changes in abstracts
	/UPP	P-proximity	New records and equivalents
	/UPS	-	The most recent UP update only
CAPLUS	/ED	-	New documents (without indexing)
	/UP	-	New documents and all changes
	/UPI	-	Changes in indexing
	/UPP	L-proximity	Changes in patent family

(continued on next page)

Database	Search field	Linked SDI	Use when searching for
DPCI	/ED	-	New documents = new basics
	/UP	P-proximity	New documents and all changes
	/UPD	P-proximity	Changes in cited patents
	/UPR	P-proximity	Changes in literature references
	/UPG	P-proximity	Changes in citing patents
	/UPE	P- proximity	Changes in examiner references
	/UPP	P-proximity	Changes in patent family
	/UPS	_	The most recent UP update only

Single-File SDIs

Single-file SDIs can be set up using the

- SDI command
- Alert (SDI) Assistant in STN on the Web
- STN Express with *Discover!* wizard

The SDI Command

In most STN patent databases, automatic current awareness profiles (SDIs) can be set up. Update codes indicate the type of information to be retrieved.

Search Question: *Set up an SDI in the INPADOC file on the subject inline skates.*

Search Strategy

To set up a single-file SDI

Step 1 Enter the file of interest. Create an L-numbered query or answer set for the topic of interest.

Step 2 Issue the SDI command. Set the required parameters.

Create a relevant L-numbered answer set/query

A concept such as "inline skates" may best be searched using both free-text and International Patent Classification codes (IC).

```
=> FILE INPADOC

=> S (A63C017-04 OR A63C017-06 OR A63C017-08 OR A63C017-14)/IC OR ...

L3        2763 (A63C017-04 OR A63C017-06 OR A63C017-08 OR A63C017-14)/IC
               OR INLINE SKATE OR INLINESKATE OR ROLLERBLADE OR ROLLER
               BLADE
```

Issue the SDI command and set parameters

```
=> SDI

ENTER QUERY L# FOR SDI REQUEST OR (END):L3
ENTER UPDATE FIELD CODE (UP) OR ?:UP
ENTER SDI REQUEST NAME, (AA019/S), OR END:INLINE/S
ENTER COST CENTER (NONE) OR NONE:.
ENTER TITLE (NONE):INLINE SKATES
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL:EMAIL
ENTER EMAIL ID (4116K):ELM@FIZ-KARLSRUHE.DE
ELM@FIZ-KARLSRUHE.DE IS NOT A KNOWN MAILID
REENTER EMAIL ID FOR 'ELM@FIZ-KARLSRUHE.DE' OR (END):
ELM@FIZ-KARLSRUHE.DE.INTERNET
ELM@FIZ-KARLSRUHE.DE.INTERNET
RECEIVE DELIVERY NOTIFICATION? (Y)/N:Y
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):Y
ENTER PRINT FORMAT (BIB.M) OR ?:ALL.M
HIGHLIGHT HIT TERMS? (Y)/N:.
ARCHIVE ANSWERS? Y/(N):.
REDISTRIBUTE ANSWERS? Y/(N):.
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:.
SEND SDI WITH NO ANSWERS? (Y)/N:.
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):.
QUERY L3 HAS BEEN SAVED AS SDI REQUEST 'INLINE/S'
```

Update field code options:

- *ED retrieves only completely new records.*
- *UP retrieves new and updated records.*

Syntax: When using e-mail delivery, append .internet to the e-mail address.

note

```
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):Y
```

In SDIs, a record retrieved because of an update may be eliminated from the answer set if it has been previously seen. STN keeps track of previously seen records.

Option: Displaying an SDI profile

From any file, the DISPLAY command may be used to review a SDI profile.

```
=> FILE STNGUIDE

=> D INLINE/S

NAME             CREATED      NOTES/TITLE
--------------   -----------  -----------------------------------
INLINE/S         15 FEB 2001  SDI REQUEST FOR FILE INPADOC
                              INLINE SKATES
COST CENTER                   NONE
UPDATE QUALIFIER              UP
METHOD OF DELIVERY            EMAIL
EMAIL ID(S)                   ELM@FIZ-KARLSRUHE.DE.INTERNET
NOTIFICATION                  YES
PRINT FORMAT                  ALL.M
MAXIMUM NUMBER OF HITS
   TO BE PRINTED              100
HIGHLIGHTING                  YES
DUPLICATE ELIMINATION         YES
PRINT FILE BACKGROUND         NO
SEND SDI WITH NO ANSWERS      YES
DISPLAY QUERY WITH RESULTS    YES
```

STNGUIDE is a file with no connect time fee.

Option: SDI results delivered online

SDI results delivered online are saved in an answer set with the same name as the SDI, with a run number and a /A appended. This answer set can be displayed using the ACTIVATE command.

```
=> FILE INPADOC

=> ACT INLINE12/A

TITLE: INLINE SKATES
L4              QUE  ABB=ON  PLU=ON  (A63C017-04 OR A63C017-06 OR
                A63C017-08 OR A63C017-14)/IC OR INLINE SKATE OR
                INLINESKATE OR ROLLERBLADE OR ROLLER BLADE
L5          21  L4 AND 20010301/UP
```

Note: to see a list of saved answer sets, type D SAVED.

Option: Editing an existing SDI

The command SDI EDIT is used to change an SDI.

```
=> SDI EDIT

ENTER SDI NAME TO BE EDITED OR (END):INLINE/S
    PARAMETER                   SETTING
    --------------------------- ---------------------------------------
    SDI Name and Creation Date  INLINE/S            15 FEB 2001
                                SDI REQUEST FOR FILE INPADOC
  1 Title                       INLINE SKATES
  2 Cost Center                 NONE
  3 Update Qualifier            UP
  4 Method of Delivery          EMAIL
  5 Email ID(s)                 ELM@FIZ-KARLSRUHE.DE.INTERNET
  6 Maximum Hits to be Printed  100
  7 Print Format                ALL.M
  8 SDI Sort Parameters         NOT SPECIFIED
  9 Archive Answers             0
 10 Redistribute Answers        0
 11 Notification                NO
 12 Highlighting                YES
 13 Send SDI with No Answers    YES
 14 Duplicate Elimination       NO
 15 Display Query with Results  YES
 16 SDI Expiration Date         NOT SPECIFIED
    ------------------------------------------------------------------
 17 L5    QUE   ABB=ON  PLU=ON (A63C017-04 OR A63C017-06 OR A63C017-08 O
               R A63C017-14)/IC OR INLINE SKATE OR INLINESKATE OR ROLLER
               BLADE OR ROLLER BLADE
ENTER LINE NUMBER(S) FOR CHANGE, END, OR (?):END
```

To modify a parameter, enter the relevant line number.

note

If the query itself has to be changed, it may be easier to delete the profile and create a new one.

Option: Deleting an SDI

Any SDI may be deleted with the DELETE command.

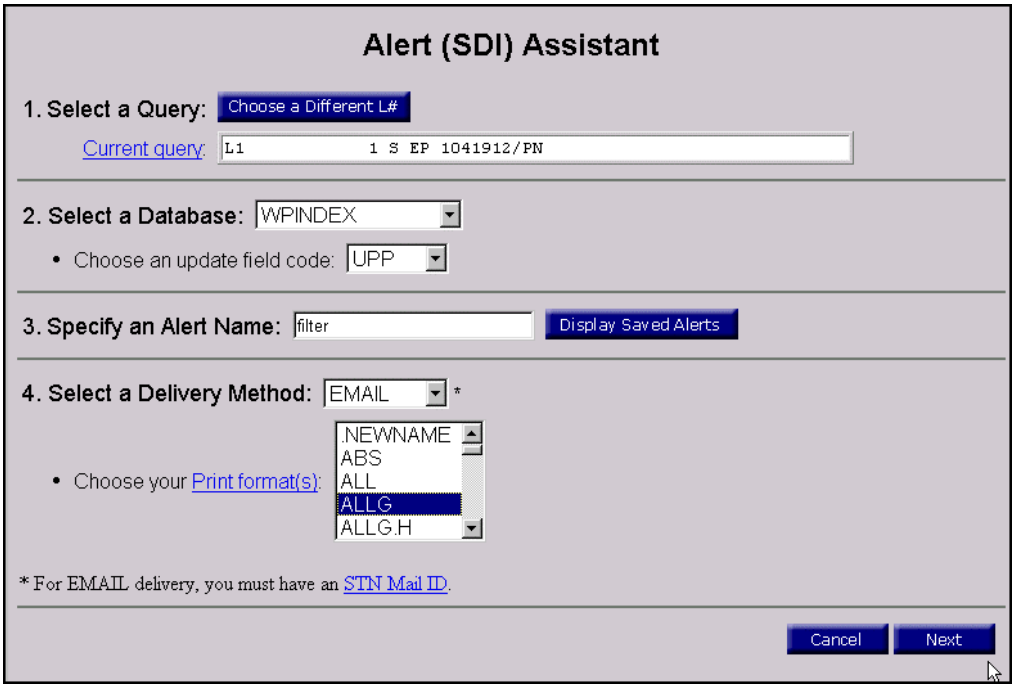
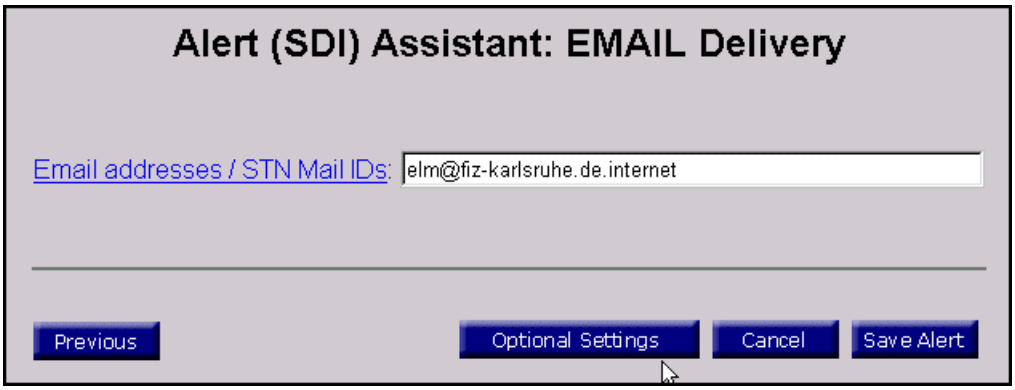
```
=> DEL INLINE/S

DELETE INLINE/S? (Y)/N:Y
```

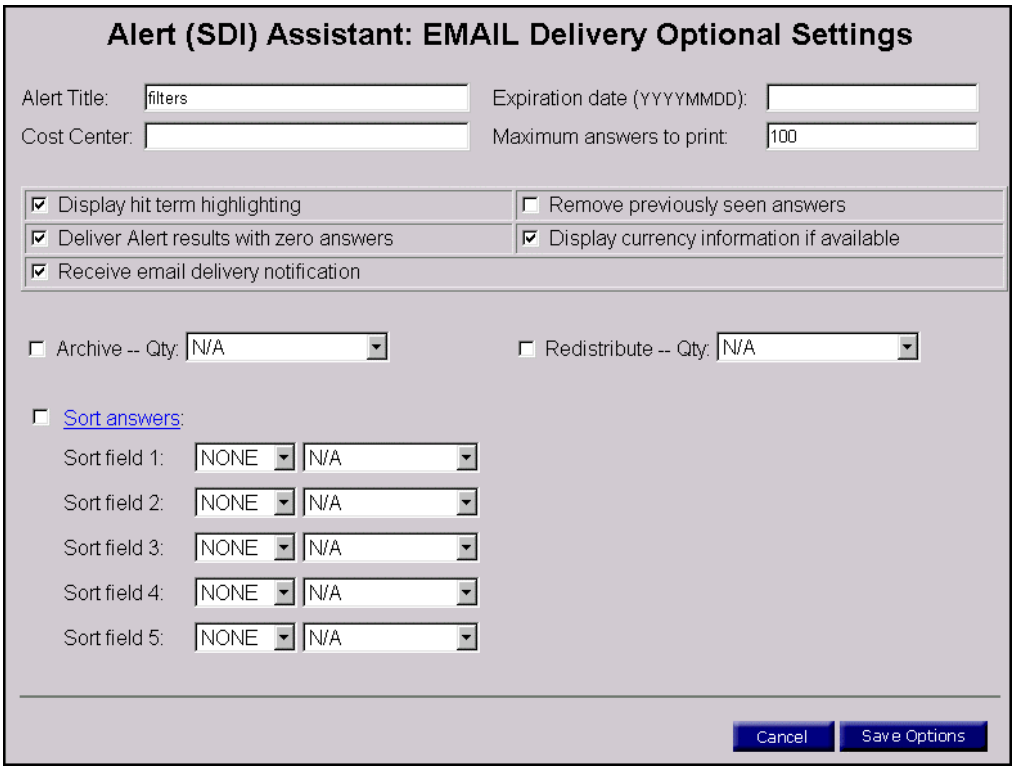
STN on the Web Alert (SDI) Assistant

Single-file SDIs can also be created using the Alert (SDI) Assistant in STN on the Web.

Search Question: *Monitor the patent family of EP 1041912 with regard to new patent members.*

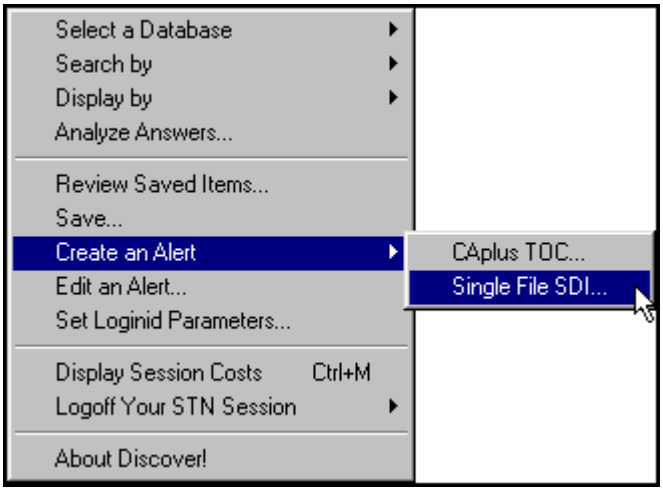
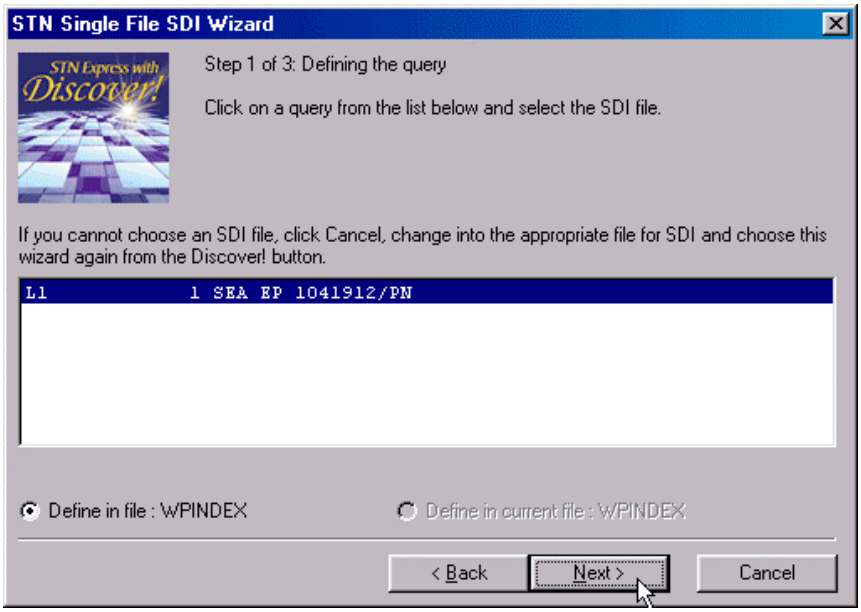
Step	Do the following:
1	From the STN on the Web navigation bar, select the **Alert (SDI) Asst**. 

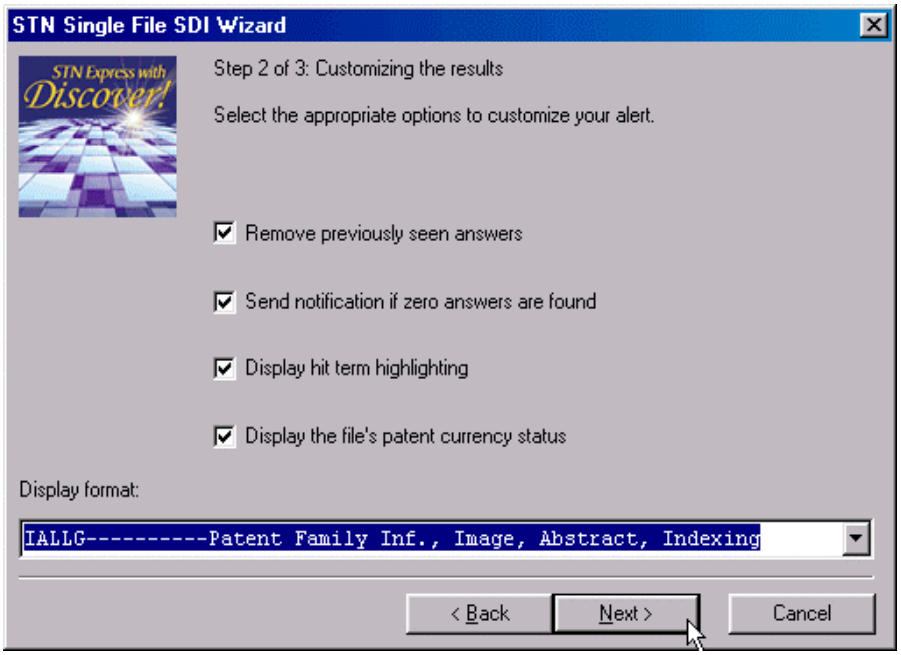
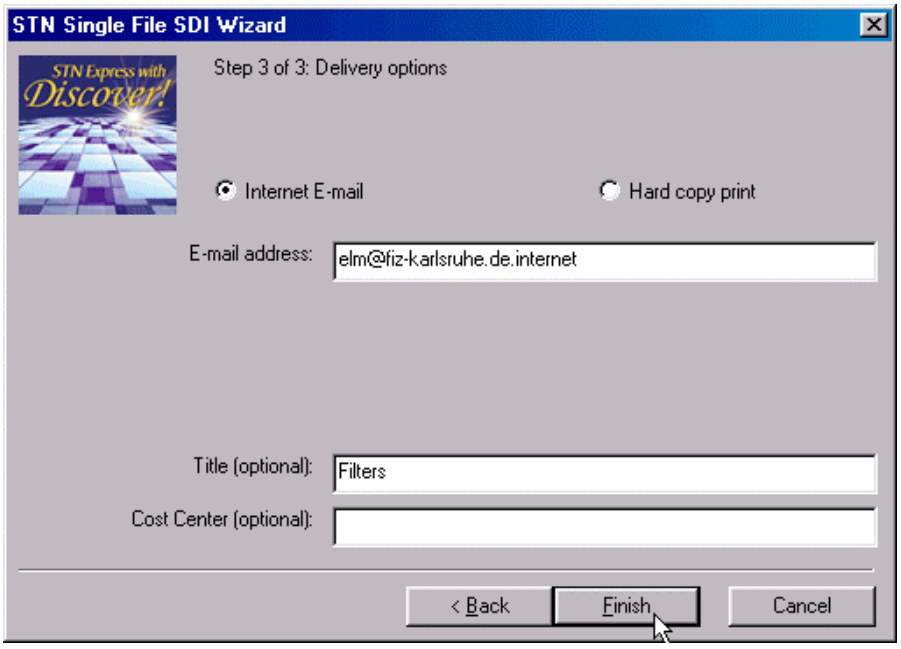
2	The **Alert (SDI) Assistant** dialog box appears. Select the desired parameters. Click ***Next***. 
3	The **Alert (SDI) Assistant Delivery** dialog box appears. Type the relevant information in the entry box.  To review delivery setting options, click ***Optional Settings***. To save the SDI, click ***Save Alert***.

4	(Option) Select the desired optional delivery settings. Click ***Save Options***. 
5	The SDI profile is displayed in the command window.

STN Express with *Discover!* Wizard

Single-file SDIs can also be created using the Create an Alert wizard in STN Express with *Discover!*

Step	Do the following:
1	Click the Discover! button. A side-menu appears. Select ***Create an Alert/Single-File SDI***. 
2	The **Single File SDI Wizard - Defining the Query** dialog box appears. Select the desired query. Click ***Next***. 

3	The **Single File SDI Wizard - Customizing the results** dialog box appears. Select the desired options. Click ***Next.*** 
4	The **Single File SDI Wizard - Delivery Options** dialog box appears. Type the required information in the entry boxes. Click ***Finish.*** 

Using Command Files for Manual Current Awareness Searches

There are times when the time intervals provided by automatic SDIs do not meet your particular needs. Or, you have a strategy you wish to update and store locally. In these cases, running a manual current awareness search is a good option.

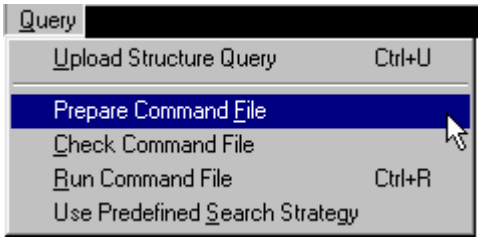
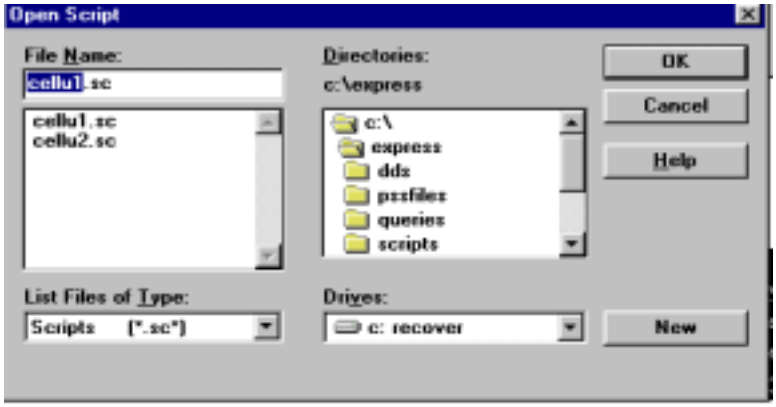
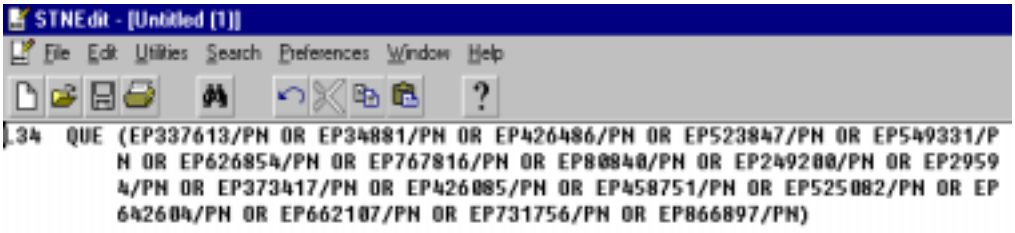
Search Question: *Create a current awareness profile to monitor the invention status of a select list patents.*

Running a manual current awareness search using a command file is a 2-step process:

1. Develop the command file.
2. Conduct the periodic current awareness search.

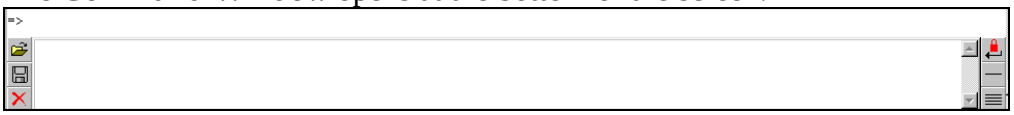
Developing a Command File

Step	Do the following:
1	Create a relevant query. **=> FILE PATOSEP** **=> SEL L5 PN** E1 THROUGH E18 ASSIGNED **=> QUE E1-E18** L34 QUE (EP337613/PN OR EP34881/PN OR EP426486/PN OR EP523847/PN OR EP549331/PN OR EP626854/PN OR EP767816/PN OR EP80840/PN OR EP249200/PN OR EP29594/PN OR EP373417/PN OR EP426085/PN OR EP458751/PN OR EP525082/PN OR EP642604/PN OR EP662107/PN OR EP731756/PN OR EP866897/PN) *Here, the SELECT command was used to extract patent numbers from an answer set.* Copy the query to the clipboard.

2	From the **Query** pull-down menu, select **Prepare Command File**. 
3	Open a new file. 
4	Paste the query in the window. 

5	Edit the query by doing the following: 1. Remove the L-number. 2. Type QUE at the start of each line 3. Limit each line to 250 characters. 
6	Save the command file.

Conducting the Periodic Update Search

Step	Do the following:
1	While online, open the command window by clicking  .
2	The **Command Window** opens at the bottom of the screen: 
3	Click  to open the command file of interest.
4	Upload the command file query • One line at a time  • Multiple lines at once 
5	Add additional search terms to the query as needed. **=> FILE PATOSEP** **=> QUE (EP337613/PN OR EP34881/PN OR EP426486/PN OR EP523847/PN OR EP549331/PN OR EP626854/PN OR EP767816/PN OR EP80840/PN OR EP249200/PN)** L1 QUE (EP337613/PN OR EP34881/PN OR EP426486/PN OR EP523847/PN OR EP549331/PN OR EP626854/PN OR EP767816/PN OR EP80840/PN OR EP249200/PN) **=> QUE (EP29594/PN OR EP373417/PN OR EP426085/PN OR EP458751/PN OR EP525082/PN OR EP642604/PN OR EP662107/PN OR EP731756/PN OR EP866897/PN)** L2 QUE (EP29594/PN OR EP373417/PN OR EP426085/PN OR EP458751/PN OR EP525082/PN OR EP[illegible] OR EP731756/PN OR EP866897/PN) **=> S (L1 OR L2) AND UPLS>20000101** L3 8 (L1 OR L2) AND UPLS>20000101 *UPLS = change in legal status. Result: In eight cases, a change in legal status has taken place.*

Choosing Update Codes

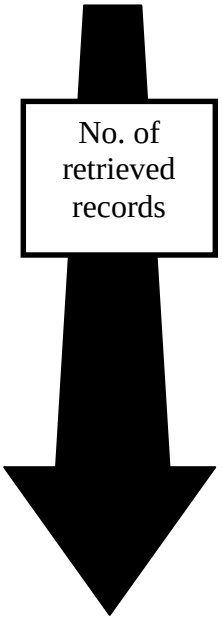
Update codes are used to answer questions such as

- What are the new family members of a known patent?
- Which are the new inventions of a competitor?
- Is there a change of the legal status of a known patent?

INPADOC

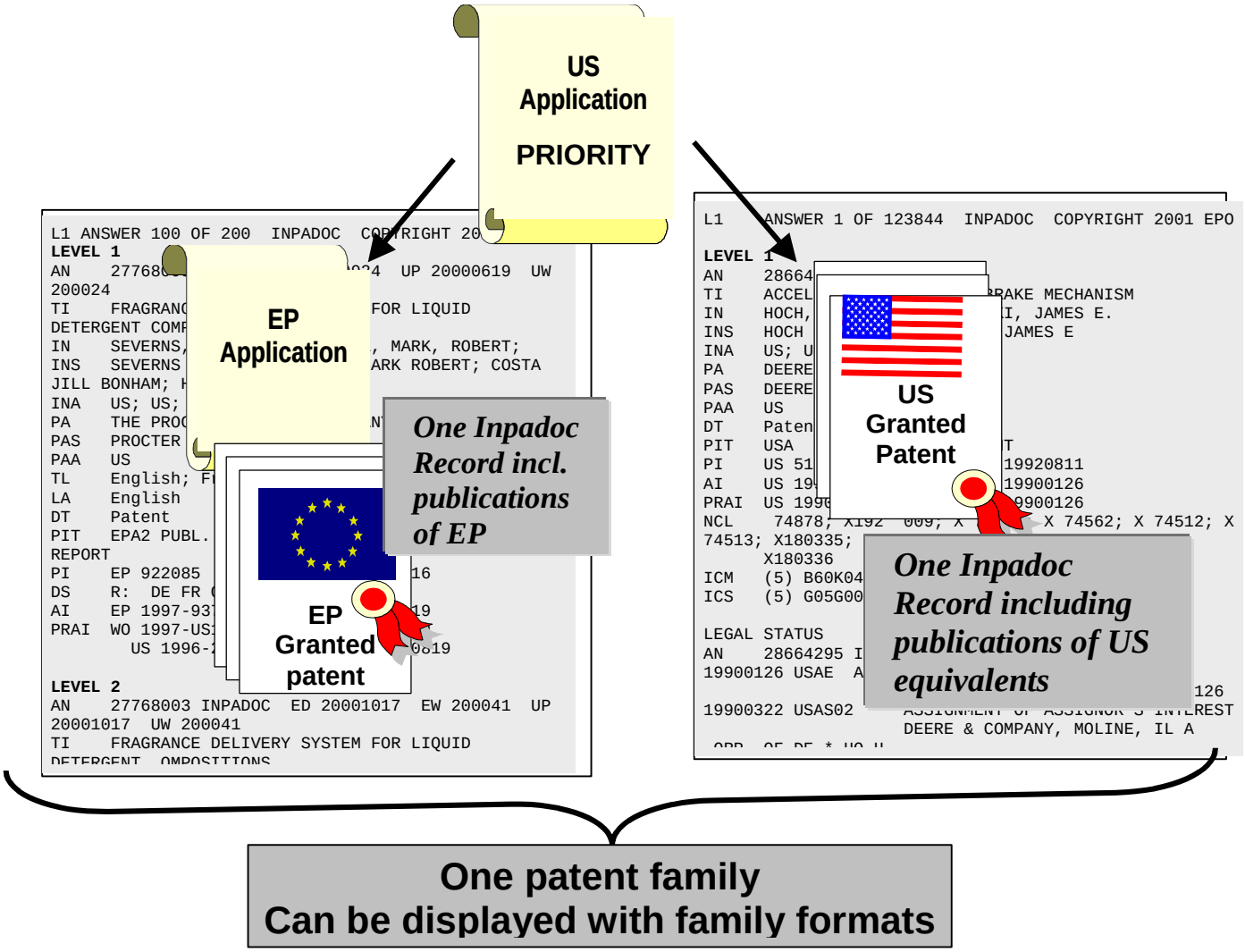
The INPADOC file includes several update codes to make the SDI as specific as possible.

Search field	Use when searching for
/EDPR	New priority numbers = new patent families (inventions)
/EDP	New applications (first entry) from an issuing authority
/ED	New applications and further publications of a patent in various nations
/UP	New applications, further publications of a patent in various nations and corrections of bibliographic data
/UPLS	New information in legal status
/UPM	All changes referring to bibliographic data and legal status (UP+UPLS); exclusive



note

Records in INPADOC consist of the national family that corresponds to one application number.



The INPADOC file structure offers flexibility with

- Display formats, providing various levels of detail on each publication
- Family display formats, providing complete details for a specific invention

INPADOC Applications

Types of INPADOC SDIs include monitoring

- Changes in legal status or patent assignee for a specific patent
- The addition of family members
- New inventions

Legal status

Search Question: *Set up a current awareness profile to keep up-to date on the changes of patent publication GB 2323697.*

Search Strategy

To keep up-to-date on legal status of a patent publication

Step 1 Enter the file of interest. Create an L-numbered query or answer set for the topic of interest.

Step 2 Refine results using a relevant update field.

Step 3 Display results.

Create a relevant L-numbered answer set/query:

```
=> FILE INPADOC

=>  QUE GB 2323697/PN

L1   QUE GB 2323697/PN
           (GB2323697/PN)
```

Refine results:

```
=> S L1 AND UPLS>20010205

L2           1 L1 AND UPLS>20010205
```

UPLS = Update legal status

Display results:

```
=> D BIB LSUP

L2    ANSWER 1 OF 1  INPADOC  COPYRIGHT 2001 EPO

LEVEL 3
AN    19559956 INPADOC  ED 20010213  EW 200106  UP 20010213  UW
       200106
TI    AN APPARATUS AND A KIT FOR TEACHING STUDENTS HOW TO BUILD AND
      PROGRAM ELECTRICAL CONTROL SYSTEMS
IN    DAVID * SMITH
INS   SMITH DAVID
INA   GB
PA    THE * MANCHESTER METROPOLITAN UNIVERSITY
PAS   UNIV MANCHESTER METROPOLITAN
PAA   GB
DT    Patent
PIT   GBB2 PATENT GRANTED
PI    GB 2323697           B2 20010207
AI    GB 1997-6358         A  19970327
PRAI  GB 1997-6358         A  19970327

LEGAL STATUS LAST UPDATE
AN    19559956 INPADOC  UPLS 20010213
20010207 GBB2     + PATENT GRANTED
```

The display format LSUP limits the display to the legal status new to this update period.

note

SDI option:

```
=> SDI

ENTER QUERY L# FOR SDI REQUEST OR (END):L1
ENTER UPDATE FIELD CODE (UP) OR ?:UPLS
      .
      .
      .
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):N
ENTER PRINT FORMAT (BIB.M) OR ?:BIB LSUP
```

New family members

Search Question: *Have any new family equivalents been added to publication EP985117?*

Search Strategy

To keep up-to-date on new equivalents of a known patent number

Step 1 Find all the priority numbers.

Step 2 Extract patent priority numbers.

Step 3 Create a query using the priority numbers.

Step 4 Refine results using a relevant update field.

Find all priority numbers:

```
=> FILE INPADOC

=> FSEARCH EP985117/PN

SEA EP985117/PN
L1           1 EP985117/PN

FSE
*** ITERATION 1 ***

SEL L1 1- PN,APPS
L2          SEL L1 1- PN APPS :       4 TERMS

SEA L2
L3           6 L2

*** ITERATION 2 ***
```

FSEARCH automatically searches all publication, priority and application numbers of the requested document. All equivalents will be retrieved.

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```
SEL L3 1- PN,APPS
L2          SEL L1 1- PN APPS :      12 TERMS

SEA L2
L3           6 L2

FSORT L3
L4            6 FSO L3

              1 Multi-record Family     Answers 1-6
              0 Individual Records
              0 Non-patent Records
```

Extract patent priority numbers and create a query:

```
=> SEL PRN

E1 THROUGH E2 ASSIGNED

=> D SEL

E1           7     KR1997-23339/PRN
E2           4     WO1998-KR128/PRN

=> QUE E1 OR E2

L5   QUE KR1997-23339/PRN OR WO1998-KR128/PRN
```

PRN = Priority number

These two priority numbers can occur in documents of this patent family.

Refine results - EDP update code:

```
=> S L5 AND EDP>20010101

L6           1 L5 AND EDP>20010101

=> D

L6    ANSWER 1 OF 1  INPADOC  COPYRIGHT 2001 EPO

LEVEL 1
AN    143804497 INPADOC  ED 20010206  EW 200105  UP 20010206  UW
      200105 Full-text
TI    KLIMAANLAGE MIT KLAPPE ZUR UMLENKUNG DES LUFTSTROMES FUER
      KUEHLUNG ODER HEIZUNG
IN    YUN, MEYONG, HYEK
INS   YUN MEYONG HYEK
INA   KR
PA    YUN, MEYONG, HYEK
```

EDP = New applications (first entry) New family members are retrieved - here an Austrian publication.

(continued on next page)

```
PAS   YUN MEYONG HYEK
PAA   KR
DT    Patent
PIT   ATE  EP PATENT VALID IN AT
PI    AT 198657            E  20010115
AI    AT 1998-921909       EP 19980522
PRAI  KR 1997-23339        A  19970605
      WO 1998-KR128        W  19980522
```

Refine results - ED update code:

```
=> S L5 AND ED>20010101

L7           2 L5 AND ED>20010101

=> S L7 NOT L6

L8           1 L7 NOT L6

=> D

L8    ANSWER 1 OF 1  INPADOC  COPYRIGHT 2001 EPO

LEVEL 1
AN    124252627 INPADOC  ED 20000323  EW 200011  UP 20000323  UW
      200011 Full-text
TI    AIR FLOW SWITCHING TYPE AIR CONDITIONE
      HEATING
IN    YUN, MEYONG, HYEK
INS   YUN MEYONG HYEK
INA   AT
PA    YUN, MEYONG, HYEK
PAS   YUN MEYONG HYEK
PAA   AT
TL    English; French; German
LA    English
DT    Patent
PIT   EPA1 PUBL. OF APPLICATION WITH SEARCH REPORT
PI    EP 985117            A1 20000315
DS    R:  AT BE CH DE ES FR GB GR IE IT LI NL
AI    EP 1998-921909       A  19980522
PRAI  WO 1998-KR128        W  19980522
      KR 1997-23339        A  19970605

LEVEL 2
AN    124252627 INPADOC  ED 20010116  EW 200102  UP 20
       200102 Full-text
TI    AIR FLOW SWITCHING TYPE AIR CONDITIONER FOR BOTH COOLING AND
      HEATING
IN    YUN, MEYONG, HYEK
```

Option: ED = New applications and further publications of a patent

Here, the Austrian patent is new and an EP granted has been added to existing national family.

LEVEL indicates the stage of publication for a national patent family.

LEVEL 2 is the granted EP publication.

(continued on next page)

```
INS   YUN MEYONG HYEK
INA   KR
PA    YUN, MEYONG, HYEK
PAS   YUN MEYONG HYEK
PAA   KR
TL    English; French; German
LA    English
DT    Patent
PIT   EPB1 PATENT
PI    EP 985117            B1 20010110
DS    R:  AT BE CH DE ES FR GB GR IE IT LI NL
AI    EP 1998-921909       A  19980522
PRAI  WO 1998-KR128        W  19980522
      KR 1997-23339        A  19970605
```

Refine results - UP update code:

Option: UP = New applications, further publications, and corrections of bibliographic data.
All documents - new or updated - are retrieved. In this example the same 2 records already seen were found.

```
=> S L5 AND UP>20010101

L9           2 L5 AND UP>20010101

=> S L5 AND UPLS>20010101

L10          3 L5 AND UPLS>20010101

=> S L10 NOT L9

L11          1 L10 NOT L9

=> D MAX

L11   ANSWER 1 OF 1  INPADOC  COPYRIGHT 2001 EPO

LEVEL 1
AN    48976919 INPADOC  EW 199852  UW 199913 Full-text
TI    AIR FLOW SWITCHING TYPE AIR CONDITIONER FOR BOTH COOLING AND
      HEATING
IN    YUN, MEYONG, HYEK
INS   YUN MEYONG HYEK
INA   KR
PA    YUN, MEYONG, HYEK
PAS   YUN MEYONG HYEK
PAA   KR
TL    English; French
LA    English
DT    Patent
PIT   WOA1 PUBL.OF THE INT.APPL. WITH INT.SEARCH REPORT
FDT   with international search report
      before expiration of time limit for amending the claims and to
      be republished in the event of the receipt of the amendments
```

The display format MAX includes all stages of national publications and the legal status.

(continued on next page)

```
PI    WO 9855806           A1 19981210
DS    RW: GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
          CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
          CI CM GA GN ML MR NE SN TD TG
       W: AT AU BR CA CN DE GB HU JP KE KZ LR MX NO NZ PL PT RO RU SE
          SG TR US VN
AI    WO 1998-KR128        A  19980522
PRAI  KR 1997-23339        A  19970605
AIT   WOA  patent application
PRAIT KRA  patent application
ICM   (6) F24F003-044
ICS   (6) F24F001-02
EPC   F24F1/02B
LEGAL STATUS
AN    48976919 INPADOC  UPLS 20010206 Full-text
19970605 WOAA  A    PRIORITY (PATENT)
                    KR 1997-23339        A  19970605
19980522 WOAE  A    APPLICATION DATA
                    WO 1998-KR128        A  19980522
19981210 WOAK  A1 + DESIGNATED STATES CITED IN A PUBLISHED
                   APPLICATION WITH SEARCH REPORT
                    AT AU BR CA CN DE GB HU JP KE KZ LR MX NO NZ PL
                    PT RO RU SE SG TR US VN
19981210 WOAL  A1 + DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED
                    IN A PUBLISHED APPLICATION WITH SEARCH REPORT
      •
      •
      •

19990414 WO121      EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS
                    DESIGNATED IN THIS APPLICATION
20000406 WOREG      REFERENCE TO NATIONAL CODE
         DE0642   - DE: IMPACT ABOLISHED FOR DE
20001205 WONENP     NON-ENTRY INTO THE NATIONAL PHASE IN:
                    CA
```

Refine results - UPM update code:

```
=> S L5 AND UPM>20010101

L12          3 L5 AND UPM>20010101
```

Option: UPM = UP + UPLS

note

SDI option:

```
=> SDI

ENTER QUERY L# FOR SDI REQUEST OR (END):L5
ENTER UPDATE FIELD CODE (UP) OR ?:ED
ENTER SDI REQUEST NAME, (AA007/S), OR END:EP985117/S
      •
      •
      •
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):N
ENTER PRINT FORMAT (BIB.M) OR ?:.
HIGHLIGHT HIT TERMS? (Y)/N:.

ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
```

New inventions

Search Question: *Has Novo Nordisk reported any new inventions (priorities)?*

Search Strategy

To keep up-to-date on new inventions from a company

Step 1 Enter the file of interest. Create an L-numbered query or answer set for the topic of interest.

Step 2 Refine results using a relevant update field.

Create an L-numbered query/answer set:

```
=> FILE INPADOC

=> QUE NOVO NORDISK/PA,PAS

L7   QUE NOVO NORDISK/PA,PAS
```

PA = Patent assignee
PAS = Standardized patent assignee

Refine results - EDPR update code:

EDPR = New priority numbers (new inventions)

```
=> S L7 AND EDPR>20010201

L8          11 L7 AND EDPR>20010201

=> D 2
```

INPADOC's default display format shows all publications (levels) in the record.

```
L8    ANSWER 2 OF 11  INPADOC  COPYRIGHT 2001

LEVEL 1
AN    143827495 INPADOC  ED 20010213  EW 200106  UP 20010213  UW
      200106 Full-text
TI    USE OF FVIIA OR A TISSUE FACTOR ANTAGONIST FOR REGULATING GENE
      EXPRESSION AND CELL MIGRATION OR CHEMOTAXIS
       •
       •
       •
PA    NOVO NORDISK A/S; EZBAN, MIRELLA; PETERSEN,
      LARS, CHRISTIAN; SIEGBAHN, AGNETA
PAS   NOVO NORDISK AS; EZBAN MIRELLA; PETERSEN LARS CHRISTIAN;ooo
PAA   DK; DK; DK; SE
TL    English; French
LA    English
DT    Patent
PIT   WOA2 PUBL.OF THE INT.APPL. WITHOUT INT.SEARCH REP.
PI    WO 2001005353        A2 20010125
DS   RW: GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ
       •
       •
       •
RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AI    WO 2000-DK401        A  20000714
PRAI  DK 1999-1023         A  19990714
      DK 1999-1117         A  19990812
      US 1999-148300       P  19990811

=> D L8 2 FAM
```

The FAM display format gives a table collecting all information from various records.

```
L8    ANSWER 2 OF 11  INPADOC  COPYRIGHT 2001 EPO
PATENT FAMILY INFORMATION
 AN   143827495 INPADOC
+-------------PRAI-------------+      +--------------AI--------------+
 DK 1999-1023         A  19990714      WO 2000-DK401        A  20000714
 DK 1999-1117         A  19990812      WO 2000-DK401        A  20000714
 US 1999-148300       P  19990811      WO 2000-DK401        A  20000714
+--------------AI--------------+      +--------------PI--------------+
 WO 2000-DK401        A  20000714      WO 2001005353        A2 20010125

 3 priorities, 1 application, 1 publication
```

Refine results - EDP update code:

```
=> S L7 AND EDP>20010201

L9          22 L7 AND EDP>20010201

=> S L9  NOT L8

L10         12 L9 NOT L8

=> D L10 FAM

L10   ANSWER 1 OF 12  INPADOC  COPYRIGHT 2001 EPO
PATENT FAMILY INFORMATION
 AN   144114019 INPADOC
+-------------PRAI-------------+      +--------------AI--------------+
 DK 1998-579          A  19980428      AU 1999-34077         A  19990427
                                       EP 1999-915517        A  19990427
                                       WO 1999-DK231         A  19990427
 WO 1999-DK231        W  19990427      AU 1999-34077         A  19990427
                                       EP 1999-915517        A  19990427
 +--------------AI--------------+      +--------------PI--------------+
 AU 1999-34077        A  19990427      AU 9934077            A1 19991116
 EP 1999-915517       A  19990427      EP 1073762            A1 20010207
 WO 1999-DK231        A  19990427      WO 9955898            A1 19991104

 2 priorities, 3 applications, 3 publications
```

EDP = New applications (first entries), but possibly older inventions

Refine results - ED update code:

```
=> S L7 AND ED>20010201

L13         39 L7 AND ED>20010201

=> S L13 NOT L9

L14         17 L13 NOT L9

=> D FAM

L14   ANSWER 1 OF 17  INPADOC  COPYRIGHT 2001 EPO
PATENT FAMILY INFORMATION
 AN   138617895 INPADOC
+-------------PRAI-------------+      +--------------AI--------------+
 DK 1999-1345         A  19990922      WO 2000-DK179         A  20000413
 DK 1999-508          A  19990416      WO 2000-DK179         A  20000413
 DK 2000-42           A  20000112      WO 2000-DK179         A  20000413
+--------------AI--------------+      +--------------PI--------------+
 WO 2000-DK179        A  20000413      WO 2000063208         A1 20001026
                                       WO 2000063208         B1 20001214
3 priorities, 1 application, 2 publications
```

ED = New applications and further publications of a patent in various nations

WPINDEX

The WPINDEX file undergoes various updating activities, and update codes are available to limit to these activities.

Search Question: *Advanced Micro Devices and Intel are U.S. computer chip manufacturers. Monitor the patents they have recently been granted in Germany and Great Britain.*

Search Strategy

To search for specific activities within a specific time frame

Step 1 Enter the file of interest. Locate patents from the patent assignee of interest.

Step 2 Refine results using a publication type from desired patent-issuing authorities.

Step 3 Option: Limit to a time frame, including the last update in an automatic SDI.

Locate patents based on assignee

```
=> FILE WPINDEX

=> S ADMI/PACO OR ITLC/PACO

          3708 ADMI/PACO
                 (ADMI/PACO)
          4331 ITLC/PACO
                 (ITLC/PACO)
L1        8039 ADMI/PACO OR ITLC/PACO
```

The company code is a useful tool to retrieve all patents of the relevant companies.

Refine results

```
=> S ((EPB/PK(P)(DE OR GB)/DS) OR (DEB OR GBB)/PK) (P) JULY 2000 -
   JANUARY 2001/UPP

        506853 EPB/PK
       1219328 DE/DS
       1195379 GB/DS
        213404 DEB/PK
        239114 GBB/PK
        695770 JULY 2000 -JANUARY 2001/UPP
                 (20000700-20010199/UPP)
L2       19392 ((EPB/PK(P)(DE OR GB)/DS) OR (DEB OR GBB)/PK)(P)JULY 2000
                           -JANUARY 2001/UPP

=> S L1 AND L2

L3          60 L1 AND L2

=> D

L3   ANSWER 1 OF 60  WPINDEX  COPYRIGHT 2001 DERWENT INFORMATION LTD
AN   2000-306435 [27]   WPINDEX
DNN  N2000-229198
TI   CMOS sense amplifier for use as a data receiver for inter-processor
     communications in a computer system, uses CMOS inverter with o o o
DC   T01 U21 U24
IN   NASSER, K A; KURD, N A
PA   (ITLC) INTEL CORP
CYC  90
PI   GB 2343574    A  20000510 (200027)*      22p    H03K019-0185
     WO 2000026907 A1 20000511 (200031)  EN          G11B019-00
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC
            MW NL OA PT SD SE SL SZ TZ UG ZW
         W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM
      ●
      ●
      ●
     AU 2000014608 A  20000522 (200040)             G11B019-00
     DE 19952698   A1 20000817 (200041)             H03F003-45
     GB 2343574    B  20000920 (200047)             H03K019-0185    <--
     US 6169424    B1 20010102 (200103)             G01R019-00
ADT  GB 2343574 A GB 1999-25868 19991101; WO 2000026907 A1 WO 1999-
     US25628 19991101; AU 2000014608 A
     19952698 A1 DE 1999-19952698 19991
     19991101; US 6169424 B1 US 1998-18
FDT  AU 2000014608 A Based on WO 200026
PRAI US 1998-186057   19981103
IC   ICM  G01R019-00; G11B019-00; H03F003-45; H03K019-0185 ICS G11C007-00
```

The (P) operator requires all search criteria are included on the same line of the patent information table.

This GB family member marked with the arrow was granted on 22 September 2000. Thus it is within our update range.

note

SDI option: To retain the link between UPD and patent kind, the code UPP/LAST is used in place of a date range.

```
=> QUE L1 AND((EPB/PK(P)(DE OR GB)/DS) OR (DEB OR GBB)/PK)(P)
   UPP/LAST

           (20000220-20010220/UPP)
L4   QUE L1 AND ((EPB/PK(P)(DE OR GB)/DS) OR (DEB OR
     GBB)/PK)(P)UPP/LAST

=> SDI

ENTER QUERY L# FOR SDI REQUEST OR (END):L4
ENTER UPDATE FIELD CODE (UP) OR ?:UPP
ENTER SDI REQUEST NAME, (AA001/S), OR END:AMDINTEL/S
ENTER COST CENTER (NONE) OR NONE:.
ENTER TITLE (NONE):AMDINTEL
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL:EMAIL
ENTER EMAIL ID (4209K):RAU@FIZ-KARLSRUHE.DE.INTERNET
RAU@FIZ-KARLSRUHE.DE.INTERNET
RECEIVE DELIVERY NOTIFICATION? (Y)/N:Y
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):N
ENTER PRINT FORMAT (STD) OR ?:IFULL
HIGHLIGHT HIT TERMS? (Y)/N:Y
ARCHIVE ANSWERS? Y/(N):N
REDISTRIBUTE ANSWERS? Y/(N):N
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:Y
ENTER SORT FIELDS AND SORT DIRECTION, OR (?):PA
SEND SDI WITH NO ANSWERS? (Y)/N:N
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):20010228
QUERY L4 HAS B
```

Update code UPP for patent family updates.

It is important to answer 'no' to the 'eliminate previously seen answers' question since you asking to see older records that have only been updated with a new family member.

DPCI

In the DPCI file update codes are available to limit to the addition of “citing” or “cited” reference information.

Search Question: *Monitor how often Kodak is cited in the patent literature to stay up-to-date with patent infringement and become aware of new competitors.*

Search Strategy

To monitor the how often a company is cited in the patent literature

Step 1 Identify the PACO.

Step 2 Locate cited patents.

Step 3 Exclude self-citations.

Step 4 Option: Analyze the data.

Identify the PACO

```
=> FILE DPCI

=> E KODAK+ALL/PACO

E1            0   -->  KODAK/PACO
E2        17646   CODE EAST/PACO
******END***

=> E E2+DEF/PACO

E1        17646   -->  EAST/PACO
                  DEF  CANADIAN KODAK
                  DEF  EASTMAN KODAK CO
                  DEF  EASTMAN KODAK JAPAN KK
```

The PACO thesaurus is used to identify a standard code for the company of interest.

The thesaurus may also be used to check which companies are classified under an assignee code.

(continued on next page)

```
                DEF  EASTMAN TECHN INC
                DEF  KODAK AG
                DEF  KODAK AUSTRALASIA PTY LTD
                DEF  KODAK BET-GMBH
                DEF  KODAK BRASILEIRA COMERCIO & IND LTD
                DEF  KODAK CLINICAL DIAGNOSTICS LTD
                DEF  KODAK CO LTD
                DEF  KODAK IMAGEX LTD
                DEF  KODAK JAPAN
                DEF  KODAK LTD
                DEF  KODAK MEDICAL LTD
                DEF  KODAK NEDERLAND BV
                DEF  KODAK PARK WORKS
                DEF  KODAK PATHE
                DEF  KODAK PATHE SA
                DEF  KODAK POLYCHROME GRAPHICS
                DEF  KODAK POLYCHROME GRAPHICS CO LTD
                DEF  KODAK POLYCHROME GRAPHICS GMBH
                DEF  KODAK POLYCHROME GRAPHICS LLC
                DEF  LAB & SERVICES KODAK
                DEF  LAB & SERVICES KODAK SA
                DEF  NIHON DORO KODAN JAPAN HIGHWAY PUBLIC CO
                DEF  NIPPON KODAK KK
******END***
```

Locate cited patents

```
=> S EAST/PACO.D (P) JANUARY 2001/UPD

         60020 EAST/PACO.D
         28949 JANUARY 2001/UPD
                 (20010100-20010199/UPD)
L1         476 EAST/PACO.D (P) JANUARY 2001/UPD
```

The company code can be used to search for patent families in which Eastman Kodak patents have been cited (PACO.D).

Helpful HINT

The update code for the addition of new cited patent data is UPD. To limit the results to those with Eastman Kodak citations, UPD must be linked to PACO.D using the (P) operator.

Exclude self-citations

```
=> L1 NOT EAST/PACO

         17646 EAST/PACO
                 (EAST/PACO)
L2         420 L1 NOT EAST/PACO
```

Eastman Kodak patents will often cite other Eastman Kodak patents. To eliminate these from the results, simply NOT them out using the PACO field.

Option - Analyze the data:

```
=> ANA PACO PA 1-

ANALYZE IS APPROXIMATELY 85% COMPLETE
L3          ANALYZE L2 1- PACO PA :     724 TERMS

=> D PA

L3          ANALYZE L2 1- PACO PA :     724 TERMS

TERM #   # OCC  # DOC  % DOC PACO PA
------ ------- ------ ------ ---------------
     2      24     24   5.71 FUJI PHOTO FILM CO LTD
     5      15     15   3.57 XEROX CORP
     8      14     14   3.33 HEWLETT-PACKARD CO
    11      11     11   2.62 CANON KK
    14       8      8   1.90 AGFA-GEVAERT NV
    16       8      8   1.90 EASTMAN CHEM CO
    17       8      8   1.90 SAMSUNG ELECTRONICS CO LTD
    19       7      7   1.67 KONICA CORP
    21       7      7   1.67 OLYMPUS OPTICAL CO LTD
    22       7      7   1.67 SONY CORP
```

To see which companies are citing Eastman Kodak inventions the ANALYZE command can be used.

Top 10 patent assignees (PA) who cited Eastman Kodak patents in January 2001.

Option - Sort the data:

```
=> SORT L2 PA 1-

PROCESSING COMPLETED FOR L2
L4          420 SOR L2 1- PA

=> D BIB KWIC 2,100

L4   ANSWER 2 OF 420  DPCI  COPYRIGHT 2001 DERWENT INFORMATION LTD
AN   2001-006174 [01]   DPCI
DNN  N2001-004375
```

(continued on next page)

The results can be sorted for review by patent assignee (PA). Use the KWIC format to focus in on the Eastman Kodak citations.

```
TI   Time dependent data transferring method in computer system, involves
     generating dropped boundary encoded signal by removing transitions
     of generated encoded data signal when data valid signal changes
     state.
DC   T01 U22
IN   GULICK, D E
PA   (ADMI) ADVANCED MICRO DEVICES INC
CYC  1
PI   US 6134698    A  20001017 (200101)*      14p
ADT  US 6134698 A US 1998-98570 19980617
PRAI US 1998-98570    19980617

CDP  CITED PATENTS       UPD: 20010113
------------------

     Cited by Examiner
     -----------------

     CITING PATENT    CAT    CITED PATENT     ACCNO
     ----------------------------------------------------------
     US 6134698    A         US 5615223    A  1996-466920/47         <--
                    PA:  (EAST) EASTMAN KODAK CO
                    IN:  CARR, T D

L4   ANSWER 100 OF 420  DPCI  COPYRIGHT 2001 DERWENT INFORMATION LTD
AN   1999-349297 [30]   DPCI
CR   2000-402280 [35]
DNN  N1999-261258       DNC C1999-103094
TI   New tabular silver halide emulsion, useful for production of
     components for photographic products.
DC   D16 E32 G06 P83
IN   BOUWSTRA, J B; DE WOLF, F A; MOOIBROEK, A; VAN DEN BOSCH, T J; VAN
     HEERDE, G V; VAN RIJN, A C; WERTEN, M W T; WIND, R D; VAN DEN BOSCH,
     T; VAN HEERDE, G
PA   (FUJF) FUJI PHOTO FILM BV
CYC  27
PI   EP 926543     A1 19990630 (199930)* EN   45p
         R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK
            NL PT RO SE SI
     NL 1007908    C2 19990625 (199939)
     JP 11338090   A  19991210 (200009)      118p
     US 6150081    A  20001121 (200101)
ADT  EP 926543 A1 EP 1998-204263 19981215; NL 1007908 C2 NL 1997-1007908
     19971224; JP 11338090 A JP 1998-378430 19981224; US 6150081 A US
     1998-219849 19981223
PRAI NL 1997-1007908  19971224
```

(continued on next page)

```
CDP  CITED PATENTS       UPD: 20010113
-----------------

     Cited by Examiner
     -----------------

     CITING PATENT    CAT    CITED PATENT     ACCNO
     ------------------------------------------------------
     US 6150081    A         US 5380642    A  1995-060326/08          <--
                    PA:  (EAST) EASTMAN KODAK CO
                    IN:  BOWMAN, W A; KEEVERT, J E; LAM, W K; ROBERTS, M
                         R; RUBIN, B H
                             US 5385819    A  1995-081562/11          <--
                    PA:  (EAST) EASTMAN KODAK CO
                    IN:  BOWMAN, W A; KEEVERT, J E; KLEIN, G W; WEBER, S
                         C; WEISS, R A

                             US 5580712    A  1997-033559/03          <--
                    PA:  (EAST) EASTMAN KODAK CO
                    IN:  JAGANNATHAN, R; KEEVERT, J E; KLEIN, G W; WEBER,
                         S C
                             US 5670616    A  1997-479522/44          <--
                    PA:  (EAST) EASTMAN KODAK CO
                    IN:  MCELVER, J A; WEBER, S C
```

note

SDI option: To retain the link between UPD and PACO.D, the code UPD/LAST is used in place of a date range.

```
=> QUE EAST/PACO.D (P) UPD/LAST NOT EAST/PACO

L5   QUE EAST/PACO.D (P) UPD/LAST NOT EAST/PACO

=> SDI

ENTER QUERY L# FOR SDI REQUEST OR (END):L5
ENTER UPDATE FIELD CODE (UP) OR ?:UPS
ENTER SDI REQUEST NAME, (AA001/S), OR E
ENTER COST CENTER (NONE) OR NONE:.
ENTER TITLE (NONE):EASTMAN
     .
     .
     .
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):N
     .
     .
     .
```

UPS update code is used rather than UP. This is necessary because UP/LAST is used in the query.

Multifile SDIs

Two or more files may be used to monitor research in a multifile SDI. Features of a multifile SDI include:

- The number of files used is unlimited.
- The same, or different, L-numbered queries may be used for each file.
- The results are not withheld until each file is updated.
- Additional files may be added as a later time.

Similar to a single-file SDI, duplicate removal is an option. However, in this case, eliminating previously seen answers removes

- Duplicate records from within a file that have been previously seen
- Duplicate records seen from one of the other files

Helpful HINT

A Quick Reference Card on multifile SDIs is available:

http://www.cas.org/ONLINE/QR/multisdi.pdf 

Search Question: *You are interested in changes of legal status and family information of the patent with priority number US 1999-255305.*

Search Strategy

To set up a multifile SDI

Step 1 Enter each file individually. Develop file-specific queries if necessary.

Step 2 Enter all files simultaneously.

Step 3 Issue the SDI MFILE command. Set all general and file-specific parameters.

Develop the query

```
=> FILE WPINDEX

=> S US1999-255305/PRN

L1          US1999-255305/PRN
```

Enter all files and issue the SDI MFILE command

```
=> FILE WPINDEX INPADOC ZCAPLUS

=> SDI MFILE

MULTFILE SDI GENERAL PARAMETERS
-------------------------------
ENTER MULTIFILE SDI REQUEST NAME ('AA009/S'), OR END:STIRRER/S
ENTER TITLE (NONE):MAGNETIC STIRRER
ENTER COST CENTER (NONE) OR NONE:.
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL:EMAIL
ENTER EMAIL ID (3701C): ELM@FIZ-KARLSRUHE.DE.INTERNET
ELM@FIZ-KARLSRUHE.DE.INTERNET
RECEIVE DELIVERY NOTIFICATION? (Y)/N:.
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):.
HIGHLIGHT HIT TERMS? (Y)/N:.
SEND SDI WITH NO ANSWERS? (Y)/N:.
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):.

-----------------------------------------------

MULTFILE SDI FILE SPECIFIC PARAMETERS: WPINDEX
                                       -------
ENTER COMPONENT SDI REQUEST NAME ('AA009/S') OR END:STIRRWPI/S
ENTER QUERY L# FOR MULTIFILE SDI REQUEST OR END:L1
ENTER UPDATE FIELD CODE (UP) OR ?:UPP
ENTER PRINT FORMAT (STD) OR ?:ALL
ARCHIVE ANSWERS? Y/(N):.
REDISTRIBUTE ANSWERS? Y/(N):.
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:.
ENTER SDI RUN FREQUENCY: (EVERYUPDATE), MONTHLY, OR ?:MONTHLY

-----------------------------------------------

MULTFILE SDI FILE SPECIFIC PARAMETERS: INPADOC
                                       -------
ENTER COMPONENT SDI REQUEST NAME ('AA009/S') OR END:STIRRINPA/S
ENTER QUERY L# FOR MULTIFILE SDI REQUEST OR END:L1
ENTER UPDATE FIELD CODE (UP) OR ?:UPLS
ENTER PRINT FORMAT (BIB.M) OR ?:.
ARCHIVE ANSWERS? Y/(N):.
REDISTRIBUTE ANSWERS? Y/(N):,
REDISTRIBUTE ANSWERS? Y/(N):.
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:.
```

The file-specific parameters.

Note; new frequency options in the WPI file

Note; the L-number created in one file may be used in any of the other files as the SDI query.

(continued on next page)

```
-----------------------------------------------

MULTFILE SDI FILE SPECIFIC PARAMETERS: ZCAPLUS
                                       -------
ENTER COMPONENT SDI REQUEST NAME ('AA009/S') OR END:STIRRCAP/S
ENTER QUERY L# FOR MULTIFILE SDI REQUEST OR END:L1
ENTER UPDATE FIELD CODE (UP) OR ?:UPP
ENTER PRINT FORMAT (BIB) OR ?:.
ARCHIVE ANSWERS? Y/(N):.
REDISTRIBUTE ANSWERS? Y/(N):.
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:.
DISPLAY CURRENCY INFORMATION? (Y)/N:.
ENTER SDI RUN FREQUENCY - DAILY, (WEEKLY), BIWEEKLY, OR ?:.
MULTIFILE SDI HAS BEEN SAVED AS SDI REQUEST 'STIRRER/S'
QUERY L1 HAS BEEN SAVED AS SDI REQUEST 'STIRRWPI/S' FOR FILE WPINDEX
QUERY L1 HAS BEEN SAVED AS SDI REQUEST 'STIRRINPA/S' FOR FILE INPADOC
QUERY L1 HAS BEEN SAVED AS SDI REQUEST 'STIRRCAP/S' FOR FILE ZCAPLUS
```

SmartTracker SDI

When we are interested in learning about any new substances indexed from the literature, as well as new literature describing substances already known to us, a special multifile SMARTracker SDI is a very valuable resource on STN

REGISTRY/CAplus Crossfile SDI – SmartTracker

SmartTracker is an exclusive feature of STN. It is a crossfile SDI between the REGISTRY and CAplus files. SmartTracker retrieves new CAplus records describing

- New REGISTRY compounds matching the query
- Old REGISTRY compounds matching the query

The search query may include components for both the REGISTRY and CAplus files; e.g.:

- The REGISTRY query may be structure or dictionary based.
- The CAplus query includes the REGISTRY crossover L-number.
- The CAplus query may include additional search terms, including CAS Role indexing.

Helpful HINT

A Quick Reference Card on SmartTracker is available:

http://www.cas.org/ONLINE/QR/smartracker.pdf

Search Question: *What new Mo- and Si-containing polyacids have been described?*

Search Strategy

To set up a SMARTracker SDI

Step 1 Enter the REGISTRY file. Develop the search query.

Step 2 Enter the CAplus file. Search the REGISTRY L-number, along with additional search terms, if desired.

Step 3 Issue the SMART, or SDI XFILE, command. Set desired parameters.

Develop the REGISTRY query

Any query appropriate for the REGISTRY file may be used, including dictionary- or structure-based queries.

```
=> FILE REGISTRY

=> S (MO(L)SI(L)O(L)H)/ELS

           228498 MO/ELS
          929749 SI/ELS
        14802002 O/ELS
        16627522 H/ELS
L9         1835 (MO(L)SI(L)O(L)H)/ELS
```

Search for the presence of Mo, Si, O, and H all in the same molecular formula. Use the (L) operator to link the elements.

note

Up to 12 REGISTRY L-numbers may be crossed to (H)CAplus in one step and subsequently used in a SmartTracker SDI.

Develop the CAplus query

```
=> FILE HCAPLUS

=> E HETEROPOLY ACIDS/CT

E#   FREQUENCY    AT     TERM
--   ---------    --     ----
E1           0     1     HETEROPOLY/CT
E2           0     2     HETEROPOLY ACID SALTS/CT
E3        4353    18 --> HETEROPOLY ACIDS/CT
E4           0     2     HETEROPOLY ACIDS (L)
                         ALUMINOPHOSPHATOSILICATES/CT
E5           0     2     HETEROPOLY ACIDS (L) ALUMINOPHOSPHOSILICATES/CT
E6           0     8     HETEROPOLY ACIDS (L) ANIONS/CT
E7           0     8     HETEROPOLY ACIDS (L) ANTIMONOTUNGSTIC, RARE
                         EARTH COMPLEXES/CT
     •
     •
     •

=> E E3+ALL

E13       4474   BT3  Inorganic compounds/CT
E14       6732   BT2  Coordination compounds/CT
E15      12686   BT1  Cluster compounds/CT
E16       4353   -->  Heteropoly acids/CT
                HN   Valid heading during volume 76 (1972) to present.
E17             UF   Acids (L) heteropoly/CT
E18             UF   Polyoxometalates/CT
E19          2  NT1  Molybdoarsenates/CT
E20          1  NT1  Molybdogermanates/CT
E21         42  NT1  Molybdophosphates/CT
E22          0  NT1  Molybdophosphoric acid (H3PMo12O40)/CT
E23          7  NT1  Molybdosilicates/CT
E24          1  NT1  Molybdotungstophosphates/CT
E25          3  NT1  Molybdovanadates/CT
E26         11  NT1  Molybdovanadophosphates/CT
E27          0  NT1  Phosphotungstic acid (H3PW12O40)/CT
E28          0  NT1  Silicotungstic acid/CT
E29         12  NT1  Tungstophosphates/CT
E30          7  NT1  Tungstosilicates/CT
*********  END***

=> S L9 AND (?HETEROPOLY? OR HETEROPOLY ACIDS+NT/CT)

          1535 L1
            24 ?HETEROPOLYMN
         10655 ?HETEROPOLY?
            24 ?HETEROPOLYMN
            23 HETEROPOLYMN
             1 HETEROPOLYMNS
            24 HETEROPOLYMN
               (HETEROPOLYMN OR HETEROPOLYMNS)
```

Heteropoly acids is a substance class subject heading. The CA Lexicon indicates there are 18 associated terms of possible interest.

Narrower terms (NT) representing the most highly posted specific heteropoly acids may be of interest.

(continued on next page)

```
         10655 ?HETEROPOLY?
               (?HETEROPOLY? OR ?HETEROPOLYMN OR HETEROPOLYMN OR
               ?HETEROPOLYM
                 D OR HETEROPOLYMD OR ?HETEROPOLYMG OR HETEROPOLYMG)
          5871 HETEROPOLY ACIDS+NT/CT  (13 TERMS)
L10        610 L9 AND (?HETEROPOLY? OR HETEROPOLY ACIDS+NT/CT)

=> S L10 AND P/DT

       2817725 P/DT
L11        225 L10 AND P/DT
```

Issue the SMART command

This command may be issued from within CAplus.

```
=> SMART

   SMARTracker INITIATED

ENTER QUERY L# FOR SDI REQUEST OR (END):L11
ENTER UPDATE FIELD CODE (UP) OR ?:UP
ENTER SDI REQUEST NAME, (AA009/S), OR END:POLYACIDS/S
ENTER COST CENTER (NONE) OR NONE:PIUG
ENTER TITLE (NONE):?
ENTER TITLE (NONE):MO OR SI CONTG HETEROPOLY ACIDS
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL:EMAIL
ENTER EMAIL ID (3701C):KSTANLEY@CAS.ORG.INTERNET
KSTANLEY@CAS.ORG.INTERNET
RECEIVE DELIVERY NOTIFICATION? (Y)/N:N
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN?  Y/(N):Y
ENTER PRINT FORMAT (BIB) OR ?:IBIB ABS HITSTR
HIGHLIGHT HIT TERMS? (Y)/N:Y
ARCHIVE ANSWERS? Y/(N):N
REDISTRIBUTE ANSWERS? Y/(N):N
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:Y
ENTER SORT FIELDS AND SORT DIRECTION, OR (?):PA A
SEND SDI WITH NO ANSWERS? (Y)/N:N
DISPLAY CURRENCY INFORMATION? (Y)/N:Y
ENTER SDI RUN FREQUENCY: (WEEKLY), BIWEEKLY, OR ?:WEEKLY
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):20010505
QUERY L5 HAS BEEN SAVED AS SDI REQUEST 'POLYACIDS/S'
```