What’s new from STN-K?

Ursula Klemm – FIZ Karlsruhe
STN User Meeting Barcelona – November 7th, 2013
Implementation of CPC on STN
Derwent World Patents Index® (DWPI<sup>SM</sup>)
INPADOC files (INPAFAMDB/INPADOCDB)
New patent databases INFULL and JPFULL
PCTFULL backfile enhancements
Enhancements to USGENE®
Other recent database enhancements
Resources for searchers
Implementation of CPC on STN

• The Cooperative Patent Classification (CPC) is a new scheme developed by the EPO and USPTO
  – IPC-based with about 250,000 subdivisions
• Search and display of CPC is analogous to the implementation of IPC on STN
• An STN CPC thesaurus feature is available
  – Similar to the IPC and ECLA thesauri
  – Allows for simple hierarchical searching, e.g.
    => S H01L0021-027+NT/CPC

Learn more in INPADOC News 2012/11:
Implementation of CPC on STN (cont.)

- **/CPC** – the search and display field for all codes
  - Including Original and Reclassification codes
- **/CPC.KW** – the search field for CPC attributes
  - Classification value (I,A), classification status (O,R), source of classification (H,M,G), generating office
  - Use the CPC.TAB format to display CPC attributes
- For specific CPC searches CPC codes and attributes can be linked with *(S)-proximity*:
  - E.g. => S A61K0047-48384 /CPC (S) I /CPC.KW

* In CAplus use *(T)-proximity.*
# Searching CPC on STN

<table>
<thead>
<tr>
<th>Searching Query</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>=&gt; S A61K0047-48384/CPC</td>
<td>CPC search in <strong>STN-standard format.</strong></td>
</tr>
<tr>
<td>=&gt; S A61K0047/CPC</td>
<td>CPC search at <strong>main group level.</strong></td>
</tr>
<tr>
<td>=&gt; S A61K/CPC</td>
<td>CPC search at <strong>subclass level.</strong></td>
</tr>
<tr>
<td>=&gt; S A61K0047-48384/CPC(S)I/CPC.KW</td>
<td>CPC search + <strong>attributes</strong>*.</td>
</tr>
<tr>
<td>=&gt; S A61K0047-48369+NT/CPC</td>
<td>CPC search with all <strong>narrower terms.</strong></td>
</tr>
</tbody>
</table>

* In CAplus use (T)-proximity.
**Displaying CPC on STN**

<table>
<thead>
<tr>
<th>L1</th>
<th>ANSWER 1 OF 1</th>
<th>INPAFAMDB COPYRIGHT 2013 EPO/FIZ KA on STN</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN</td>
<td>46199948 INPAFAMDB EDF 20130131 EWF 201305 UPFB 20130328 UWF 201313</td>
<td></td>
</tr>
<tr>
<td>TI</td>
<td>Combination therapy for the treatment of CD19+ B-cell malignancies symptoms comprising an anti-CD19 maytansinoid immunoconjugate and rituximab.</td>
<td></td>
</tr>
<tr>
<td>INS</td>
<td>BESRET LAURENT, FR; CARREZ CHANTAL, FR; PAYRARD SANDRINE, FR</td>
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<td>PAS</td>
<td>SANOFI SA, FR . . .</td>
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<td></td>
</tr>
<tr>
<td>AB</td>
<td>(EP 2550975 A1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A combination of an anti-CD19 maytansinoid immunoconjugate and rituximab is used for treating CD19+ CD20+ B-cell malignancies symptom, in particular Non-Hodgkin’s lymphoma.</td>
<td></td>
</tr>
</tbody>
</table>

**The CPC display field is included in standard display formats, e.g. BRIEF.**

**Cooperative Patent Classification (CPC) codes.**

**Note:** ECLA and ICO have been mapped to corresponding CPC codes, and the CPC codes then added to the entire INPAFAMDB backfile.
Displaying CPC on STN (cont.)

The `CPC.TAB` display provides a tabulated view of CPC attributes.

```
=> D CPC.TAB

The CPC.TAB display provides a tabulated view of CPC attributes.

<table>
<thead>
<tr>
<th>CPC CODE</th>
<th>VERSION</th>
<th>POS</th>
<th>INV</th>
<th>CC</th>
<th>ASSIGNMENT</th>
<th>DATE</th>
<th>STAT</th>
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<td>(20130101)</td>
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<td>I</td>
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<td>A61K2039-507</td>
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<td>O</td>
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<td>C07K0016-2803</td>
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<td>I</td>
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<td>O</td>
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<td>C07K0016-2887</td>
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<td>L</td>
<td>I</td>
<td></td>
<td>Human</td>
<td>20130130</td>
<td>O</td>
</tr>
</tbody>
</table>
```
The CPC thesaurus on STN

- Hierarchies of terms may be reviewed using EXPAND with a term followed by a plus symbol (+), a Relationship Code, and the appropriate field, i.e. /CPC
  - E.g. => E A61K0009-00+ALL /CPC

- Searches may be extended to incorporate Narrower, Broader, Related, or other terms, using SEARCH with a term followed by a plus symbol (+), a Relationship Code, and the appropriate field, i.e. /CPC
  - E.g. => S A61K0009-7023+NT/CPC (10 TERMS)

**Tip:** to learn more about the Relationship codes available for a particular Thesaurus type HELP RCODE at the STN prompt (=>).
Example: CPC thesaurus (A61K0009-00)

=> E A61K0009-00+ALL/CPC
E1 0 BT5 A/CPC
   HUMAN NECESSITIES (2013-01-01)
E2 0 BT4 A61-/CPC
   Health; amusement (2013-01-01)
E3 0 BT3 A61/CPC
   MEDICAL OR VETERINARY SCIENCE; HYGIENE (2013-01-01)
E4 309271 BT2 A61K/CPC
   PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES
E5 5611 BT1 A61K0006/CPC
E6 361 --> A61K0009-00/CPC
   Medicinal preparations characterised by special physical form reference:
   ● ● ●
E175 834 NT2 A61K0009-7023/CPC
   CPC-specific-text: Transdermal patches and similar drug-containing composite devices, e.g. cataplasms reference: galenical aspects
   ● ● ●
E184 180 NT4 A61K0009-7092/CPC
   CPC-specific-text: Transdermal patches having multiple drug layers or reservoirs, e.g. for obtaining a specific release pattern, or for combining different drugs (2013-01-01)

********** END **********

=> S A61K0009-7023+NT/CPC
L1 2983 A61K0009-7023+NT/CPC (10 TERMS)

Review CPC Thesaurus (/CPC) hierarchies and definitions, e.g. using the +ALL Relationship Code.

Codes unique to CPC are identified and the version is given in parentheses.

Use +NT to search a chosen CPC, and all its narrower terms in one step.
# Availability of CPC in STN patent files

<table>
<thead>
<tr>
<th>Multinational value-add patent files</th>
<th>National patent files</th>
<th>CPC for updated and new documents</th>
<th>CPC for backfile</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPADOC files</td>
<td>USPAT files</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CAplus</td>
<td>CANPATFULL</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DWPI files</td>
<td>PCTFULL</td>
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<td>✓</td>
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<tr>
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<td>AUPATFULL</td>
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<td></td>
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<td>✓</td>
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</tr>
<tr>
<td></td>
<td>INFULL</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

- ✓ Available

- In progress
Tip: Use +NT (narrower terms) not truncation!

Truncation is not recommended as it may miss CPC classes from the hierarchy, for example:

Search question: Retrieve H01L21/027 and all narrower term subgroups – use the CPC thesaurus hierarchy (+NT) search.

=> S H01L21/027+NT/CPC
  L1  4449 H01L21/027+NT/CPC (17 TERMS)
       (H01L0021-027+NT/CPC)

=> S H01L21/027?/CPC
  L2  2250 H01L21/027?/CPC (H01L0021-027?/CPC)
DWPI now covers 50 data sources

- **New coverage of Indonesia (ID) from 2010**
  - Published applications and Simple Patents

- **Enhanced coverage of Malaysia (MY)**
  - Granted patent backfile coverage extended to 2005

- **Enhanced coverage of Thailand (TH)**
  - Registration numbers (THR0/PK) now covered

For further details:
http://www.stn-international.com/newsline012013.html
Cultivating rice plant involves applying effective dose of clothianidin to rice seed with maintained moisture state after immersing and treating seeds in water, and inoculating seeds in paddy field and then flooding field with water.

**New coverage of Indonesia (ID) published applications and simple patents from 2010.**
INPADOC calculated expiration dates

- For granted publications of 30 major patent authorities
- Available for 97% of all granted patents since 1980

- More than 400 rules operate behind the scenes
  - Patent laws and patent law changes
  - Determination of earliest effective filing date

Learn more in INPADOC News 2013/01:
http://www.stn-international.com/inpadoc_news_201301.html
Calculated expiration date search & display

- Calculated expiration date is now included in all standard display formats, BIB, ALL, MAX, etc.
  - The custom display field XPD is also available
- Calculated expiration date (/XPD) and year (/XPY) search options are available, e.g.

  => S 20131020/XPD
  => S 20140601-20150601/XPD
  => S XPD>20121001
  => S 2013-2016/XPY

Specific dates or ranges may be searched.

NEW!
Example: Calculated expiration date search

=> FILE INPADOCDB

=> S C12N0015-79+NT/IPC,CPC AND XPD>20130201
L1 47980 C12N0015-79+NT/IPC,CPC AND XPD>20130201

=> D ALL
L3 ANSWER ... OF 47980 INPADOCDB COPYRIGHT 2013 EPO/FIZ KA on STN
AN 60850048 INPADOCDB ED 20120830 EW 201235 UP 20120830 UW 201235
... . . .
PI AU 2010200666 B2 20120816 English
PIT AUB2 PATENT PRECEEDED BY A or PATENT PROCEEDED BY OPI . . .
DAV 20120816 printed-with-grant
STA GRANTED
AI AU 2010-200666 A 20100223
AIT AUA Patent application
PRAI AU 2004-213869 A 20040220 (AUA3, 20100223)
AU 2010-200666 A 20100223 (AUA, 20100223)
US 2003-371877 A 20030220 (USA, 20070301, I)
PRAIT AUA3 Prior application claimed for a division
USA Patent application
XPD 20240220
IPCI C12N0009-10 [I,A]; C12N0015-79 [I,A]
CPC C12N0015-1082; C12N0009-1051; C12N0015-79
AB The present invention relates to eukaryotic host cells having . . . .
INPADOC citing patent Information

• Citing patent information (forward citations) are now available for over 19 million applications

• Citing patent number (PN.G), publication date, citing patent assignee, and cited patent number

• Citing patent information is included in several standard display formats, e.g. MAX and IFAM
  – Custom display with CGP is also available
  – Display backward and forward citations with CITN

Learn more in INPADOC News 2013/01: http://www.stn-international.com/inpadoc_news_201301.html
Example: Citing patent information

<table>
<thead>
<tr>
<th>PI</th>
<th>US 8151139</th>
<th>B1 20120403 English</th>
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<tbody>
<tr>
<td>PIT</td>
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<td>STA</td>
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<td>AI</td>
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<td>US 2009-412895 A 20090327 (USA, 20120403)</td>
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<td>USA Patent application</td>
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<tr>
<td>XPD</td>
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</table>

**INPADOCDB record for US8151139 (/PN) in MAX format.**

**Referenced patents (REP) – backward citations.**

**Citing patents (CGP) – forward citations.**

<table>
<thead>
<tr>
<th>REP</th>
<th>US 7120823 B2 20061010 (SEA, pat) IBM, US</th>
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<tbody>
<tr>
<td></td>
<td>US 7401255 B1 20080715 (SEA, pat) SYMANTEC CORP, US</td>
</tr>
<tr>
<td></td>
<td>US 7594157 B2 20090922 (SEA, pat) SAMSUNG ELECTRONICS CO LTD, KR</td>
</tr>
</tbody>
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<table>
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<tbody>
<tr>
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<td>US 20120191656 A1 20120726 [US8151139B1 (PRS, pat)] FEDERAL EXPRESS CORP</td>
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PNC.G 2. THERE ARE 2 CITING PATENT REFERENCES AVAILABLE FOR THIS RECORD.
INPAFAMDB basic patent search and select options

- New detailed SEARCH and SELECT options for basic patents are now available for INPAFAMDB patent family records

<table>
<thead>
<tr>
<th>Description</th>
<th>Search/Select</th>
<th>Display</th>
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<td>PI.B</td>
</tr>
<tr>
<td>Patent Number/Kind, Basic</td>
<td>PNK.B</td>
<td>PI.B</td>
</tr>
<tr>
<td>Patent Kind Code, Basic</td>
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<td>Patent Country, Basic</td>
<td>PC.B</td>
<td>PI.B</td>
</tr>
<tr>
<td>Publication Year, Basic</td>
<td>PY.B</td>
<td>PI.B</td>
</tr>
<tr>
<td>Publication Date, Basic</td>
<td>PD.B</td>
<td>PI.B</td>
</tr>
</tbody>
</table>

- The new fields are useful, e.g. for invention based statistics, or for faster transfer to other patent databases such as DWPI or CAplus
Example: Basic patent search and select options

=> FILE INPAFAMDB

=> S C12N0015-79+NT/CPC AND US/PC.B AND 2013/PY.B
L1 241 C12N0015-79+NT/CPC AND US/PC.B AND 2013/PY.B

=> FILE WPINDEX

=> TRANSFER L1 1- PNK.B /PNK
L2 TRANSFER L1 1- PNK.B : 241 TERMS
L3 224 L2/PNK

=> D AN TI
L3 ANSWER 1 OF 224 WPINDEX COPYRIGHT 2013 THOMSON REUTERS on STN
AN 2013-M42921 [201356] WPINDEX
TI New seed of soybean variety DLL1290, useful for producing soybean plant or its part having a transgene that confers the desired trait e.g. male sterility, herbicide resistance, insect resistance and modified fatty acid metabolism
Enhanced INPADOC legal status coverage

- **El Salvador**
  - Legal status information is now available from 1971
- **Costa Rica**
  - Legal status information is now available from 1990
- **Japan**
  - Legal status information now available from July 2008

More details on Japanese legal status coverage:
New full-text patent database INFULL

- Indian Patent Office English-language full-text patent applications and granted patents
  - From 1912 to date
- Produced by LexisNexis Univentio
- Numeric property search
- Family display options from INPADOCDB
- IPC, CPC and ECLA and classification Thesauri

INFULL database summary sheet:
http://www.stn-international.com/infull.html
Example: BRIEF format in INFULL

=> D BRIEF

L1    ANSWER 1 OF 1 INFULL COPYRIGHT 2013 LNU on STN.
AN    2009018289   INFULL ED 20130525 UP 20130525 EDTX 20130525
      DED 20100319 DUPD 20130416
TI    GLUCAGON/GLP-I RECEPTOR CO-AGONISTS
IN    DAY JONATHAN; PATTERSON, JAMES; CHABEN,
      SMILEY, DAVID; DIMARCHI, RICHARD D
PA    INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION, 351, WEST 10th
      STREET, INDIANAPOLIS, IN 46202, US
LAF   English
DT    Patent; (Fulltext)
PIT   INA APPLICATION
PI    IN 2009DN05128 A 20100319
AI    IN 2009-DN5128 20090807
RLN   WO 2008-US53857 20080213
PRAI  US 2007-890087P 20070215
IPCI   C07K0014-605 [C]
Original
Modified glucagon peptides are disclosed having enhanced potency at the glucagon receptor relative to native glucagon. Further modification of the glucagon peptides by forming lactam bridges or the substitution of the terminal carboxylic acid with an amide group produces peptides exhibiting glucagon/GLP-1 receptor co-agonist activity. The solubility and stability of these high potency glucagon analogs can be further improved by modification of the polypeptides by pegylation, substitution of carboxy terminal amino acids, or the addition of a carboxy terminal peptide selected from the group consisting of SEQ ID NO: 26 (GPSSGAPPFS), SEQ ID NO: 27 (K-RNRNNIA) and SEQ ID NO: 28 (KRNK).

MCLM
1. A non-native glucagon peptide comprising the sequence of SEQ ID NO: 55 or an analog of SEQ ID NO: 55, wherein said analog is not a naturally occurring peptide and said analog differs from SEQ ID NO: 55 by 1 to 3 amino acid modifications, selected from positions 1, 2, 3, 5, 7, 10, 11, 13, 14, 17, 18, 19, 21, 24, 27, 28, and 29, wherein the glucagon peptide comprises a covalent intramolecular bridge between the side chains of two amino acids that are separated by three intervening amino acids to provide the enhanced activity at the GLP-1 receptor, wherein the glucagon peptide exhibits enhanced activity at the GLP-1 receptor as compared to native glucagon.
New full-text patent database JPFULL

- Japan Patent Office (JPO) English-language full-text patent applications, granted patents, and utility models
  - Features human-translated titles and abstracts, and machine-translated full-text, from 1964 to date
- Produced by Questel
- Numeric property search
- Legal status and family display options from the INPADOCDB database
- IPC, CPC and ECLA and classification Thesauri

Example: BRIEF format in JPFULL

```
=> D BRIEF

L1     ANSWER 1 OF 1 JPFULL COPYRIGHT 2012 QUESTEL on STN.
AN     2009089702   JPFULL ED 20120928 UP 20120928 EDTX 20120928
TIEN   L-AMINO ACID-PRODUCING BACTERIUM AND METHOD FOR PRODUCING L-AMINO
ACID
TIJA   レアミノ酸生産菌
      及びL-アミノ酸の
      製造法
IN     TAKUMI KAZUHIRO; NONAKA HAJIME
INJA   宅見 和浩
        野中 源
PA     AJINOMOTO KK
PAJA   味の素株式会社
PAN    66
LAF    Japanese
LA     Japanese
DT     Patent; (Fulltext)
PIT    JPA DOC. LAID OPEN TO PUBL. INSPEC. [PUBLISHED FROM 1971 ONWARDS]
PI     JP 2010187552           A      20100902
AI     JP 2009-32835                  20090216
PRAI   JP 2009-32835                  20090216
IPCI   C12N00015-09 [I,A]; C12N0001-21 [I,A]; C12P0013-04 [I,A]
```

The BRIEF format includes bibliographic information, ...

Patent assignee numbers (/PAN) are available for comprehensive patent applicant and assignee searching.
AB
PROBLEM TO BE SOLVED: To provide an L-amino acid-producing bacterium by developing a new technique for improving the L-amino acid-producing ability of a bacterium: and to provide a method for producing the L-amino acid with the bacterium.
SOLUTION: The method for producing the L-amino acid comprises: culturing, in a culture medium, a bacterium having an ability for producing the amino acid such as L-cysteine, gene having a specific mutation, and belonging to Enterobacteriaceae to produce and accumulate the L-amino acid in the culture medium; and then collecting the L-amino acid from the culture medium.

COPYRIGHT: (C)2010, JPO & INPIT

MCIM
1. It possesses L-[amino] productivity, at the same time, in order to keep the mutation type yeaS gene which possesses the mutation from the below-mentioned (I) - (III) being chosen, it cultures the bacterium which belongs to the enteric bacteria course which is altered with the nutrient medium, it features that L-[amino] is extracted from the said nutrient medium, being the manufacturing method of L-[amino] , Description below (A) or (B) each protein the cord/code it does the yeaS gene which does not possess the aforementioned mutation, the aforementioned method: (A) The protein which possesses the amino acid arrangement which is shown in arrangement number 2, or, (B) When it possessed the amino acid arrangement to which the 1-10 includes the substitution, deficiency, insertion or addition of amino acid at the time of amino acid arranging which is shown in arrangement number 2, at the same time, rising revelation with the enteric bacteria, the protein which possesses the activity which it improves L-[shisutein] . . . .
PCTFULL backfile enhanced with English-language translations of non-Latin languages

• Non-Latin language PCT documents have been enhanced with a backfile of English-language machine translated descriptions and claims
  – Japanese, Chinese and Korean
  – Russian (from February 1st, 2007)

• The detailed description and claims are also displayable in the original filing language
  – E.g. using ALLOR, or CLMOR display formats
Example: PCTFULL original language display

PCTFULL original language (OR) display formats provide original language characters, e.g. ALLOR, CLMOR, etc.
USGENE Patent Sequence Location (PSL)

• Patent sequence location (PSL) is now available for all records from January 2005 to date

• PSL indexing includes
  – The Sequence Identity Number (SEQ ID NO)
  – And, if referred to in the claims, the corresponding claim number
    – E.g., Claim 12; SEQ ID NO 4

• Retrieve sequences referred to in the claims
  – E.g., => S L1 AND CLAIM/PSL
### Example: USGENE patent sequence location

<table>
<thead>
<tr>
<th>Key</th>
<th>Location</th>
<th>URL</th>
</tr>
</thead>
</table>

**Claim 1; SEQ ID NO 265**

> Artificial protein; Synthetic polypeptide; sequence 265 of 1078

**ECLM**

US20130164256 A1: 1. A binding protein comprising at least one heavy chain variable region (VH region) comprising: (a) three complementarity determining regions (CDRs) from any one of SEQ ID NOS: 22, 24, 26, 28, 30, 32, 34-58, 74-83, 478-486, 496-675, 738-762, 778-956, 1053-1062, 1073, 1075, and 1077; or (b) any one of SEQ ID NOS: 22, 24, 26, 28, 30, 32, 34-58, 74-83, 94-266, 478-486, 496-675, 738-762, 778-956, 1053-1062, 1073, 1075, and 1077.

**PSL indexing identifies if and where a SEQ ID NO is referred to in the claims.**

AN 20130164256.265 is displayed here in **BRIEF format**, which includes the exemplary claim (ECLM).
Recent database enhancements

• **IMSPATENTS**
  – Improved STN standardization of patent publication numbers, including WO, KR, IN, HK, RU, SU and AU
  – Structure images are now available for all components of pharmaceutical mixtures

• **Agriculture Online Access (AGRICOLA)**
  – Simultaneous left and right truncation (SLART) added to the Basic Index (/BI), Title (/TI) and Abstract (/AB)
  – Numeric property search (NPS) is now available
Recent database enhancements (cont.)

• CAB Abstracts database (CABA)
  – A new version of the Thesaurus is available
  – The database was completely re-indexed by the producer
  – Over 400,000 DOIs have been added to older records
  – Numeric property search (NPS) is now available

• Petroleum Abstracts database (TULSA/TULSA2)
  – A new version of the Thesaurus is available
  – DOIs have been added to the database
  – Numeric property search (NPS) is now available
Recent database enhancements (cont.)

• COMPENDEX
  – Numeric property search (NPS) is now available
  – Author’s Correspondence Addresses are now available
    • Each author and corresponding corporate source are numbered, e.g. (1) and the authors are no longer repeated in the CS field
    • For example:

    AU     Waswa Boaz S.(1); Vlek Paul L.G.(1); Tamene Lulseged D.(2); Okoth Peter(2); Mbakaya David(3); Zingore Shamie(4)  
    Correspondence(s): Waswa B.S.(5)  
    CS     (1)Center for Development Research (ZEF), University of Bonn, Germany  
           (2)International Center for Tropical Agriculture (CIAT), Lilongwe, Malawi  
           (3)Kenya Agricultural Research Institute (KARI), Kakamega, Kenya  
           (4)International Plant Nutrition Institute (IPNI), Nairobi, Kenya  
           (5)Centre for Development Research (ZEF), University of Bonn  
    EMAIL: bswaswa@yahoo.com
Seventeen STN databases now offer the Numeric Property Search (NPS) feature!

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<tr>
<th>Databases with the feature &quot;NUMERIC PROPERTY SEARCH&quot;</th>
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A list of STN databases with the NPS feature:
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- Pharmacovigilance Alerts on STN
- Structure searching in DWPI using STN Express
- The Cooperative Patent Classification on STN
- PQSciTech – A vast source of Sci-Tech information
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  - Processing
  - Document Delivery
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Summary

• Implementation of CPC on STN
• Derwent World Patents Index (DWPI)
• INPADOC files (INPAFAMDB/INPADOCDB)
• New patent databases INFULL and JPFULL
• PCTFULL backfile enhancements
• Enhancements to USGENE
• Other recent database enhancements
• Resources for searchers
For more information …

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