

# STN<sup>®</sup>

Enhancing prior art searches using DPCI

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# Agenda

- Derwent Patents Citation Index™ on STN®
  - Database structure
  - Key search fields
- Enhancing prior art searches using DPCI
  - Crossover and navigation between Derwent World Patents Index® (DWPI<sup>SM</sup>) and DPCI
  - Using citations as lateral “stepping-stones” to find relevant, subject-related records in DWPI<sup>SM</sup>

# Derwent Patents Citation Index (DPCI)

- DPCI is the companion citation search database for Derwent World Patents Index (DWPI)
- Citations from **23** patent issuing authorities
  - Including: US, WO, EP, JP, **CN**, DE, FR and GB
- Up-to-date patent family data from DWPI
- Coverage dates back to 1973
- Weekly updates add citations from more than 10,000 documents

Derwent Patents Citation Index (DPCI) reference manual:  
<http://www.stn-international.com/dpciman.html>

# DPCI database structure

- DPCI records consist of three parts

- The master patent family

PRESENT

- Cited patents and cited literature

PAST

- Citing patents

FUTURE

# Searching DPCI on STN®

- DPCI has a logical system of patent field codes for cited and citing data
  - **.D** for cite**D** or **.G** for citin**G** data
- Key PCI fields:

	Master	Cited	Citing
Derwent Accession Number	AN	OS.D	OS.G
Patent Number	PN	PN.D	PN.G
Assignee name	PA	PA.D	PA.G
Assignee code	PACO	PACO.D	PACO.G
Inventor	IN	IN.D	IN.G
Citation count by accession number	N/A	OSC.D	OSC.G
Citation count by patent number	N/A	PNC.D	PNC.G

# Enhancing prior art searches using DPCI

## **Search Question:**

Find patent documents that are related by subject matter to patents on coin/bank note counting devices (T05-L07/MC).

Learn more about Electrical Patents Index (EPI) Manual Codes (MC):

<http://scientific.thomson.com/support/patents/dwpioref/reftools/classification/epi-codes/>

# Enhancing prior art searches using DPCI

- To find related patents starting with a subject search

=> FILE WPINDEX

=> *S subject of interest* (produces L1)

=> FILE DPCI

=> TRANSFER L1 1- AN (produces L2 and L3)

=> FIL WPINDEX

=> TRA L3 1- OS.D OS.G /AN (produces L4 and L5)

=> S L1 OR L5 (produces L6)

Answer set **L6** contains the original patents plus all the cited and citing patents (and this answer set can then be refined further in DWPI as needed).

# Example: Enhancing a prior art search

=> FILE WPINDEX

=> S T05-L07/MC

T05-L07 COIN AND NOTE COUNTING

L1 1996 T05-L07/MC

=> FILE DPCI

=> TRANSFER L1 1- AN

L2 TRANSFER L1 1- AN : 1996 TERMS

L3 655 L2

=> FILE WPINDEX

=> TRANSFER L3 1- OS.G OS.D /AN

L4 TRANSFER L3 1- OS.G OS.D :

L5 4366 L4/AN

=> S L5 NOT T05/MC

T05 COUNTING, CHECKING, VENDING, ATM

265760 T05/MC

L6 1493 L5 NOT T05/MC

655 of the 1996 DWPI records have a corresponding DPCI record (L3).

Transfer of “other source” cited (OS.D) and citing (OS.G) accession numbers to search as Accession Numbers in DWPI (/AN).

1493 related DWPI records are found which are not classified as coin/bank note counting device inventions (L6).

# Review DWPI titles using D SCAN format

=> D SCAN

L6 1493 ANSWERS WPINDEX COPYRIGHT 2011 THOMSON REUTERS on STN  
TI Medium scanning system e.g. for photographic paper detects presence-absence of images formed on both sides of medium so as to generate blank and image signals respectively

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 2

L6 1493 ANSWERS WPINDEX COPYRIGHT 2011 THOMSON REUTERS on STN  
TI Note-freed amusement media e.g. pachinko balls dispensing machine - has note discrimination unit, note return unit and sum of balance calculator

L6 1493 ANSWERS WPINDEX COPYRIGHT 2011 THOMSON REUTERS on STN  
TI Image processing method e.g. for colour printer - reading and extracting colour document into two colours and one aromatic colour and outputting signals

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 0

The additional patents are in different subject areas involving “counting technologies”, but which may be applicable to coin and bank note counting.

# DPCI resources

- DWPI and DPCI STN User Documentation
  - [http://www.stn-international.com/stn\\_dwpi.html](http://www.stn-international.com/stn_dwpi.html)
  - DWPI on STN Reference Manual
  - [DPCI on STN Reference Manual](#)
  - DWPI Classification (DC) guide
  - Global Patent Sources – DWPI coverage in detail
  - Chemistry, Engineering and Polymer User Guides
- DPCI on STN database summary sheet
  - <http://www.stn-international.com/dpci.html>

# STN<sup>®</sup>

For more information ...

CAS

E-mail: [help@cas.org](mailto:help@cas.org)

Support and Training:

[www.cas.org](http://www.cas.org)

FIZ Karlsruhe

[helpdesk@fiz-karlsruhe.de](mailto:helpdesk@fiz-karlsruhe.de)

Support and Training:

[www.stn-international.de](http://www.stn-international.de)

**STN**

STN is available through FIZ Karlsruhe, Germany  
and Chemical Abstracts Service, U.S.A.