

Derwent Patents Citation Index



Description

Derwent Patents Citation Index (DPCI), produced by Clarivate Analytics, provides access to more than 98 million patent and 11 million literature citations found in more than 11 million patent families. In each update, examiner citations from about 50,000 documents from major patent-issuing authorities are added.

Each record in the database describes a patent family for a single invention. The patent family data corresponds to the patent family data provided in *Derwent World Patents Index* at the time that the most recent citations were added to the database.

The *DPCI* record provides a view of retrospective technology for an invention (cited patents and literature references) and its impact on subsequent technology (citing patents). Citations referenced by examiners or inventors in patent documents are called "cited" patents or literature references in the *DPCI* record and correspond to the search reports that accompany patent publications. When a citation references older inventions/patents, it is also added to the family record as a "citing" patent.

Examiner citations are provided for family members added to the file from the following patent-issuing authorities: Australia (AU), Belgium (BE), China (CN), Czech Republic (CZ), European Patent Office (EP), France (FR), Germany (DE), Gulf Co-operation Council (GC), Japan (JP), Korea (KR), Luxembourg (LU), Malaysia (MY), Philippines (PH), Netherlands (NL), Russia (RU), Singapore (SG), Spain (ES), Switzerland (CH), United Kingdom (GB), United States (US), and WIPO/PCT (WO); Inventor citations are provided for family members for Australia (AU) (1994-6), Belgium (BE), European Patent Office (EP), France (FR), Germany (DE), Luxembourg (LU), Netherlands (NL), Switzerland (CH), United Kingdom (GB), United States (US) and WIPO/PCT (WO).

Limited coverage (1994-6) of citations is included and searchable for Austria (AT) (examiner and inventor), Canada (CA) (Inventor) and Sweden (SE) (examiner and inventor).

Since *DPCI* contains limited information about the patent family, the DWPI accession number can be used in DWPI to obtain detailed information, such as abstracts, about cited and citing patents as well as family members.

Subject Coverage

DPCI covers all areas of patentable technology.

Date Coverage

US citations: Jan 1970+; FR, DE, NL citations: Jan 1974+; EP,WO citations: Oct, Dec 1978+; GB, citations: Jan 1979+; CH citations: Jan 1986+; BE citations: Jan 1988+; AU, ES citations: Jan 1993+; JP citations: Jan 1994+; LU citations: Jul 1999+; SG citations: Mar 2001+; GC citations: Jul 2004+; CZ citations: Jun 2006+; KR citations: Jan 2008+; RU citations: Jun 2009+; PH citations: Nov 2009; CN. MY citations: Jan 2010+

Update Frequency

52 updates/year

Geographic Coverage

International

Document Types

Patents

Publisher

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DTI, TI **Motor vehicle hybrid drive system**
 199952 (First update). 200435 (Last update).

- Bibliographic information
- Cited references
- Citing patents
- Family members (8)

☐ **Indexing (details)**  Cite

| | | |
|-----------------------------|------------------------------------|---|
| PA, CO, PACD | Assignee | CONTINENTAL ISAD ELECTRONIC SYSTEMS GMBH (CTIS Non-standard Company) ISAD ELECTRONIC SYSTEMS GMBH & CO KG (ISAD Non-standard Company) |
| INV, AU | Inventor | Pels, T Revermann, K |
| PBC, PN ² , PD | Publication number | WO 1999050084 A1 (07 October 1999) |
| APC, APN ² , APD | Application number | WO 1999EP2218 A (31 March 1999) |
| PPC, PRN ² , PRD | Priority number | DE 19814402 A (31 March 1998) |
| LA | Publication language | German; Japanese; English |
| CLFS | Field of search | B60K 6/2; B60K 6/4; F02D 9/0; F02N 17/00; 180/65.1; 180/65.2; 180/65.3; 180/65.8; 477/5; 701/22 |
| DS | Designated states | National: JP KR US Regional: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE |
| -- | Number of designated states | 21 |
| NR, NCP, NCBP | Document features | 4 literature citations (examiner); 19 cited patents (examiner); 5 cited patents (inventor); 2 citing patents (other); 79 citing patents (examiner); 5 citing patents (inventor) |
| -- | Source attribution | Patents Citation Index, © Publisher specific |
| AN | Accession number | 1999610827 |
| | Document URL | http://search.proquest.com/professional/docview/1226278459?accountid=137296 |
| FAV | First available | 2012-12-10 |
| UD | Updates | 2013-01-16 2013-02-13 2013-03-15 |
| PUB | Database | Derwent Patents Citation Index® (1973 - current) |

¹ Cited References and Citing Patents display is truncated for brevity

² Also PNUM

PAR, REF

Cited patents

This family's list of citations includes the patents below (backwards citations).

Cited patents for family

| Publication number | Kind | Publication date | Derwent accession | Cited by |
|--------------------|------|------------------|-------------------|----------|
| DE 3024109 | A | 1982 Jan 21 | 1982A5303E | Examiner |
| DE 3335923 | A | 1984 Sep 13 | 1984232132 | Examiner |
| DE 4323601 | A1 | 1995 Jan 12 | 1995044593 | Examiner |
| DE 19530231 | A1 | 1997 Feb 20 | 1997133906 | Examiner |
| DE 19532129 | A1 | 1997 Mar 06 | 1997155652 | Examiner |
| DE 19539571 | A1 | 1997 Apr 30 | 1997246246 | Examiner |
| EP 743215 | A2 | 1996 Nov 20 | 1996507619 | Examiner |

CTPN

CTDA

:

Cited patents by family member and citer

Cited by Examiner (36 patents)

| Family member | Citing patent | Publication date | Assignee | Inventor | Relevance category |
|------------------|----------------|------------------|---|---|--------------------|
| WO 1999050084 A1 | DE 3024109 A | 1982 Jan 21 | PISCHINGER F (PISC) | KREUTER PISCHINGER F | Y |
| | DE 3335923 A | 1984 Sep 13 | VOLKSWAGENWERK AG (VOLS) Standardized Company | HEIDEMEYER P LEMKE K J OETIING H | |
| | DE 19530231 A1 | 1997 Feb 20 | AUDI AG (NSUM) Standardized Company | | |
| | DE 19532129 A1 | 1997 Mar 06 | CLOUTH GUMMIWERKE AG (CLOR) Standardized Company | GRUENDL A HOFFMANN B MASBERG U PELS T ZEYEN K | Y |

CTPN

CTDA

CTPA

CTINV, RI

| | | | | | |
|----------------|----------------|-------------|---|---------------|--|
| DE 19814402 A1 | DE 19530231 A1 | 1997 Feb 20 | AUDI AG (NSUM) Standardized Company | | |
| | DE 19539571 A1 | 1997 Apr 30 | BOSCH GMBH ROBERT (BOSC) Standardized Company | ESPENSCHIED H | |
| DE 19814402 C2 | DE 3335923 A | 1984 Sep 13 | | | |
| | DE 19530231 A1 | 1997 Feb 20 | | | |
| | DE 19539571 A1 | 1997 Apr 30 | | | |
| | EP 743216 A2 | 1996 Nov 20 | | | |

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Cited by Inventor (5 patents)

CTPN, RI
CTDA
CTPA
CTINV

| Family member | Citing patent | Publication date | Assignee | Inventor | Relevance category |
|------------------|----------------|------------------|---|--|--------------------|
| WO 1999050084 A1 | DE 3024109 A | 1982 Jan 21 | PISCHINGER F (PISC) | KREUTER PISCHINGER F | Y |
| | DE 3335923 A | 1984 Sep 13 | VOLKSWAGENWERK AG (VOLS) Standardized Company | HEIDEMEYER P LEMKE K J OETIING H | |
| | DE 19530231 A1 | 1997 Feb 20 | AUDI AG (NSUM) Standardized Company | | |
| | DE 19539571 A1 | 1997 Apr 30 | BOSCH GMBH ROBERT (BOSC) Standardized Company | ESPENSCHIED H | |
| | EP 743216 A2 | 1996 Nov 20 | TOYOTA JIDOSHA KK (TOYT) Standardized Company | KANAMORI A KAWABATA Y MIYATANI T MIZUTANI R YAMADA E | |

Cited literature

This patent's list of citations includes the literature references below (backwards citations).
Tip: Use the **Look up citation** search form to find these documents, after selecting all databases.

NPL, REF

Cited literature for family

1. DANIELS J: "TOYOTA REVEALS MORE" *AUTOMOTIVE ENGINEER*, Bd. 22, Nr. 5, 1. Juni 1997, Seite 54-64 XP000691165
2. J. Daniels, "Toyota reveals more", *Automotive Engineer*, vol. 22, No. 5, Jun. 1, 1997, pp. 54 to 64.
3. Patent Application entitled, "System for Actively Reducing Rotational Nonuniformity of a Shaft, in Particular, the Drive Shaft of an Internal Combustion Engine, and Method for This" with drawings, pp. 42.
4. See references of WO 9950084A1

Cited literature by family member and citer

Cited by examiner (6 references)

NPL, REF

| Family member | References |
|------------------|---|
| EP 1068090 A1 | 1. See references of WO 9950084A1 |
| US 6543561 B1 | 1. J. Daniels, "Toyota reveals more", <i>Automotive Engineer</i> , vol. 22, No. 5, Jun. 1, 1997, pp. 54 to 64. 2. Patent Application entitled, "System for Actively Reducing Rotational Nonuniformity of a Shaft, in Particular, the Drive Shaft of an Internal Combustion Engine, and Method for This" with drawings, pp. 42. |
| EP 1068090 B1 | 1. DANIELS J: "TOYOTA REVEALS MORE" <i>AUTOMOTIVE ENGINEER</i> , Bd. 22, Nr. 5, 1. Juni 1997, Seite 54-64 XP000691165 |
| WO 1999050084 A1 | 1. DANIELS J: "TOYOTA REVEALS MORE" <i>AUTOMOTIVE ENGINEER</i> , Bd. 22, Nr. 5, 1. Juni 1997, Seite 54-64 XP000691165 (Relevance category: Y) 2. DANIELS J: "TOYOTA REVEALS MORE" <i>AUTOMOTIVE ENGINEER</i> , Bd. 22, Nr. 5, 1. Juni 1997, Seite 54-64 XP000691165 |

[Bibliographic information](#)[Cited references](#)[Citing patents](#)[Family members \(8\)](#)

PAR, REF

Citing patents

This patent is cited by the patents below (forwards citations).

Citing patents for family

| Publication number | Kind | Publication date | Derwent accession | Cited by |
|--------------------|------|------------------|-------------------|----------|
| CN 101198503 | B | 2011 May 25 | 2007085675 | Examiner |
| CN 101316748 | B | 2011 May 18 | 2007545223 | Examiner |
| DE 10311270 | A1 | 2004 Sep 23 | 2004692101 | Examiner |
| DE 102005024359 | A1 | 2006 Nov 30 | 2007084726 | Examiner |
| DE 102008037342 | A1 | 2010 Mar 04 | 2010C31243 | Examiner |
| DE 102008053505 | A1 | 2010 Apr 29 | 2010E61572 | Examiner |
| DE 102009033544 | A1 | 2011 Jan 20 | 2011A90379 | Examiner |
| DE 102010029127 | A1 | 2011 Nov 24 | 2011P38827 | Examiner |
| DE 102010038086 | A1 | 2012 Apr 12 | 2012E13998 | Examiner |
| DE 102011005803 | A1 | 2012 Sep 20 | 2012M07063 | Examiner |
| EP 1177930 | A2 | 2002 Feb 06 | 2002189675 | Examiner |
| EP 1177930 | B1 | 2007 Apr 25 | 2002189675 | Examiner |

CGPN

CGDA

Citing patents by family member and citer

Cited by Examiner (93 patents)

| | Family member | Citing patent | Publication date | Assignee | Inventor | Additional info |
|--------------|------------------------|---------------|------------------|---|--|------------------------------------|
| CGPN | WO 1999050084 A1 | EP 1207298 A2 | 2002 May 22 | TOYOTA JIDOSHA KK (TOYT) Standardized Company | ITAGAKI K MORIYA K NAKAO H | Relevance: A Cited Date: 200426 |
| CGDA | | EP 1207298 B1 | 2006 Mar 08 | TOYOTA JIDOSHA KK (TOYT) Standardized Company | ITAGAKI K MORIYA K NAKAO H | Cited Date: 200625 |
| CGPA | | JP 3706068 B2 | 2005 Oct 12 | CRF SCPA (FIAT) Standardized Company | ELLENA G ELLENA, Giovanni MESITI D MESITI, Domenico OSELLA G OSELLA, Giancarlo PORTA A PORTA, Attilio | Cited Date: 200577 |
| CGINV | | US 6524219 B2 | 2003 Feb 25 | CRF SCPA (FIAT) Standardized Company | ELLENA G FOSSANETTI M LUPO M MESITI D OSELLA G PORTA A | Cited Date: 200323 |
| | | US 6889125 B2 | 2005 May 03 | TOYOTA JIDOSHA KK (TOYT) Standardized Company | ITAGAKI K MORIYA K NAKAO H | Cited Date: 200539 |

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Cited by Inventor (6 patents)

CGPN

| Family member | Citing patent | Publication date | Additional info |
|-----------------|--------------------|------------------|--------------------|
| DE 19814402 A1 | DE 102007050230 A1 | 2009 Apr 23 | Cited Date: 200930 |
| DE 19814402 C2 | DE 102011079079 A1 | 2013 Jan 17 | Cited Date: 201307 |
| | WO 2013007464 A1 | 2013 Jan 17 | Cited Date: 201307 |
| JP 2002510007 W | US 6739299 B2 | 2004 May 25 | Cited Date: 200435 |
| | US 39965 E | 2008 Jan 01 | Cited Date: 200804 |
| US 6543561 B1 | US 6739299 B2 | 2004 May 25 | Cited Date: 200442 |

CGDA

Cited by Other (2 patents)

CGPN

| Family member | Citing patent | Publication date | Additional info |
|----------------|---------------|------------------|--------------------|
| DE 19814402 A1 | US 7392871 B2 | 2008 Jul 01 | Cited Date: 200845 |
| | US 7455134 B2 | 2008 Nov 25 | Cited Date: 200903 |

CGDA

NPF, NCN

Patent family (Number of patents: 8; Number of countries: 21)

PN², PNA, PD,
APN², APNA

PNA, APNA

PBC, APC

PDA

APD, APDA

DW

| Publication number | Publication date | Application number | Application date | Update code | Type |
|----------------------------------|------------------|--------------------|------------------|-------------|------|
| WO 1999050084 A1 | 19991007 | WO 1999EP2218 A | 19990331 | 199952 | B |
| DE 19814402 A1 | 19991014 | DE 19814402 A | 19980331 | 199952 | E |
| DE 19814402 C2 | 20000323 | DE 19814402 A | 19980331 | 200019 | E |
| EP 1068090 A1 | 20010117 | EP 1999915729 A | 19990331 | 200105 | E |
| JP 2002510007 W | 20020402 | JP 2000541019 A | 19990331 | 200225 | E |
| EP 1068090 B1 | 20030108 | EP 1999915729 A | 19990331 | 200304 | E |
| DE 59903975 G | 20030213 | DE 59903975 A | 19990331 | 200320 | E |
| US 6543561 B1 | 20030408 | US 2000672176 A | 20000927 | 200327 | E |

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EP 1068090 A1

PNA², PDA, DW

APNA², APD
DT, PNA²

DT, APNA²,

APDA

DS

Publication number
Application number
Related publication
Related application
Designated states

[EP 1068090 A1](#) (17 January 2001, Update 200105)
[EP 1999915729 A](#) (31 March 1999)
Based on OPI patent: [WO 1999050084 A](#)
PCT: [WO 1999EP2218 A](#) (31 March 1999)
Regional: DE FR GB IT

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SEARCH FIELDS – CITATIONS

| Field Name | Field Code | Example | Description and Notes |
|---------------------------------------|------------|---|---|
| Cited and citing patents | PAR | par(EP 743215) par(AUDI) par(20130227) | Includes all cited and citing patent content. Excludes literature references. |
| Cited assignee | CTPA | ctpa(AUDI) | The assignee of a cited patent in the document |
| Cited inventor | CTINV | ctinv(YAMADA E) | The inventor of a cited patent in the document |
| Cited non-patent literature | NPL | npl(Toyota and engine) | |
| Cited patent publication date | CTDA | ctda(20001107) ctda(200011) ctda(2000) | The publication date of a cited patent in the document |
| Cited patent publication number | CTPN | ctpn(US 6142907) | The patent number of a cited patent in the document |
| Cited references - all | REF | ref(EP 743215) ref(AUDI) ref(Toyota and engine) | Includes cited/citing patent and cited literature |
| Citing assignee | CGPA | cgpa(TOYOTA) | The assignee of a patent that has cited the document |
| Citing inventor | CGINV | cginv(KÜPPER) | The inventor of a patent that has cited the document. |
| Citing patent publication date | CGDA | cgda(20110525) cgda(201105) cgda(2011) | The publication date of a patent that has cited the document. |
| Citing patent publication number | CGPN | cgpn(CN 101198503) | The publication number of a patent that has cited the document. |
| Number of cited patents | NCP | ncp(19) | NCP is a non-numeric field. This is the total number of unique cited patents for the family. |
| Number of citing patents | NCBP | ncbp(85) | NCBP is a non-numeric field. This is the total number of unique citing patents for the family. |
| Number of cited literature references | NR | nr(<5) nr(4) | The number of non-patent (literature) references. NR is a numeric field. |
| Relevance category | RI | ri(y) | A cited reference may include single letter codes that indicate how it is relevant to the patent. |

SEARCH FIELDS

| Field Name | Field Code | Example | Description and Notes |
|--|------------|---|--|
| Accession number | AN | an(1999610827) | A unique document identification number assigned by the information provider. |
| All fields + text | | Toyota engine | Searching without a field code searches all fields |
| Any patent number | PNUM | pnum(WO 50084) pnum(50084) pnum(WO1999050084A1) pnum(WO1999050084) pnum(1999050084) | Includes application, priority application, related application, and related publication number. Enhanced/variant forms of the number are also searchable. |
| Application country ³ | APC | apc(wo) apc(de) | Includes application, priority application, and related application country. |
| Application date ³ | APD | apd(19990331) | Searches the main and equivalent application date. |
| Application dates – all ³ | APDA | apda(20020402) | Includes application, priority, and related application dates. |
| Application number ³ | APN | apn(WO 1999EP2218) | Searches the main and equivalent application number. |
| Application numbers – all ³ | APNA | apna(JP 2000541019) | Includes application, priority application, and related application numbers. |

³ Non-priority application data is included from DWPI Update 198409.

| Field Name | Field Code | Example | Description and Notes |
|---|------------|--|--|
| Author ⁴ | AU | au("Revermann, K") | Author names in patent databases are inventors but can be searched using the AU field code. |
| Company information | CO | co(ISAD ELECTRONIC SYSTEMS) | Includes Derwent-standardized and original patent assignee. |
| Designated states | DS | ds(FR) | |
| Derwent enhanced title ⁵ | DTI | dti(hybrid) | |
| Derwent Week | DW | dw(199952) dw(200320) | |
| Document type | DTYPE | dtype(patent) | The only document type in DPCI is "patent". |
| First available | FAV | fav(2012-12-10) | The first time a document was loaded in a database (DPCI). It does not change however many times the record is subsequently reloaded. |
| From database ⁶ | FDB | co(ISAD ELECTRONIC SYSTEMS) and fdb(1008359) | Useful in multi-database searches to isolate records from a single database. |
| Inventor | INV | inv("Revermann, K") | Inventor names are also searchable using the AU field code. |
| Language ⁷ | LA | la(german) la(ger) | The language in which the document was originally published. |
| Last update date | LUPD | lupd(2013-03-15) | The most recent date the document was updated. |
| Number of countries | NCN | ncn(21) | NCN is a numeric field. |
| Number of patents in family | NPF | npf(8) | NPF is a numeric field. |
| Patent assignee | PA | pa(ISAD ELECTRONIC SYSTEMS) pa(CTIS) | Searches both patent assignee and code |
| Patent assignee code | PACD | pacd(ISAD) | Searches standardized patent assignee code |
| Patent publication country | PBC | pbc(EP) | Searches the 2-letter ISO standard country code for the basic, equivalent and related publication country. |
| Patent publication country and kind code | KC | kc(ep a1) kc(ep) | The kind code indicates the publication level of a patent document. KC searches basic, equivalent and related publication country and kind, or the country only. |
| Patent publication date ⁸ | PD | pd(20041014) pd(200410) pd(2004) | Searches the main publication date. Also searchable via the Look Up Patent tool. |
| Patent publication dates – all ⁸ | PDA | pda(19990331) pda(199903) pda(1999) | Includes main and related publication dates. |
| Patent publication number | PN | pn(WO1999050084) | Searches only the main publication number. |
| Patent publication numbers – all | PNA | pna(WO1999050084) pna(JP 2002510007) | Includes main, equivalent and related publication numbers. |
| Patent title ⁵ | TI | ti(hybrid) | |
| Priority application country | PPC | ppc(de) | The 2-letter ISO-standard country code associated with the priority application number. |
| Priority application date | PRD | prd(19980331) prd(199803) prd(1998) | Searches the date assigned to a priority application number. |
| Priority application number | PRN | prn(DE19814402) | The priority application number is the number assigned to the original or first application. |

⁴ Present from 1978 forward. Last name of author limited to 10 characters prior to DWPI Update 199216.

⁵ Use adjacency and/or Boolean operators to narrow search results

⁶ FDB searches the database ID. Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes, then click on FDB command" to get a list of database names and codes that can be searched with FDB. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.

⁷ Prior to DPCI Update 199216, language was coded only for EP and WO patents. Language may not be present if the language of the document is the primary language of the patent country

⁸ Patent dates may be missing for some records prior to 1974.

| Field Name | Field Code | Example | Description and Notes |
|--|------------|--|--|
| Publication title | PUB | pub(Patents Citation Index) | In a patent database, the publication title is generally the database name. |
| Publication type | PT | pt("Government & Official Publications") | The only publication type in Derwent Patents Citation Index is "Government & Official Publications". |
| Related publication and application type | DT | dt(continuation) | Searches type of related publication and application, such as PCT, Continuation in part, etc. |
| Updates | UD | ud(2013-03-15) | The date(s) the record was loaded as a result of an update provided by the supplier. |
| US field of search | CLFS | clfs(f02D 9/0) | Searches class codes applied by examiners |

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Cited assignee, Cited inventor, Citing assignee, Citing inventor, and Publication kind code.

Separate Look Up lists are available in search options for:

cited or citing **Patent assignee, Inventor, and Patent number.**

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