

JAPIO (Japan Patent Information Organization database) is a patent database providing the most comprehensive English-language access to Japanese unexamined patent applications (Kokai Tokkyo Koho) in all technologies, which are provided on PAJ (Patent Abstracts of Japan) CD-ROMS.

The PAJ records contain assignee data, publication information, International Patent Classification codes, as well as title and abstract in English (abstracts are available for all applications originating in Japan; and also for many foreign applications). Images of front page drawings, when available for a given patent, are also included.

The file is enhanced with bibliographic data from INPADOC records from April 1973 to end of 1997. An online thesaurus is available in the /IPC field.

SUBJECT COVERAGE

- All areas of science and technology, i.e., all classes of the International Patent Classification

SOURCES

- Patent Abstracts of Japan (CD-ROM), Unexamined Applications
- INPADOC database

FILE DATA

- October 1976 to present (11/07) (PAJ data)
- April 1973 to 1997,
(INPADOC data 1.620,000 records)
more than 9.5 million records
more than 6.7 million image
- Updated monthly with about 25,000 records
- Automatic current-awareness searches (SDIs) are run monthly

PRODUCER

Japanese Patent Office
3-4-3, Kasumigaseki
Chiyoda-ku, Tokyo 100-8915
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Phone; +81 3 3581-0762

Copyright Holder

SUPPLIER

FIZ Karlsruhe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49 7247 808-555
Fax: +49 7247 808-259
E-mail: helpdesk@fiz-karlsruhe.de

USER AIDS

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

SEARCH AND DISPLAY FIELDS

Search Field Name	Search Code	Search Examples	Display Code
Basic Index (contains single words from title (TI), and abstract (AB) fields) 1)	None or /BI /AC	S ELECTRONIC PUBLISHING S VIDEO(1W)RECORDER(L)ELECTRONICS S L1 AND ?SYSTEM? S JP/AC AND L7	TI, AB AI
Application Country (WIPO code and text)			AI
Application Date 2)	/AD	S 2 OCT 1998/AD	AI
Accession Number	/AN	S 2002-064999/AN	AN
Application Number 3)	/AP	S 1991JP----0052634/AP S JP1991----52634/AP	AI
Application Year 2)	/AY	S 1998/AY	AI
Document Type (code and text)	/DT (/TC)	S L7 AND P/DT	DT
Entry Date 2)	/ED	S ED>=AUG 2002	ED
Field Availability	/FA	S L1 AND GI/FA S L1 NOT NOAB/FA	FA
Graphic Image Size 2)	/GIS	S GIS > 32000	GIS
Graphic Image Type	/GIT	S TIF/GIT	GIT
International Patent Classification (contains ICM and ICS)	/IC	S G06F/IC S G06F015/IC S G06F015-40/IC	IC
IPC, Additional (Supplementary)	/ICA	S G01B003/ICA	ICA
IPC, Index (Complementary)	/ICI	S B08B101:08/ICI	ICI
IPC, Main	/ICM	S H02M/ICM S H02M003/ICM S H02M003-155/ICM	ICM
IPC, Secondary	/ICS	S G11B027-00/ICS	ICS
Inventor	/IN (/AU)	S HONMA HIDEO/IN	IN
IPC (contains ICM, ICS, ICA, ICI, IPCI) 4)	/IPC	S A01B0001-02/IPC S H05B0006-36+NT/IPC S H05B0006-36-H05B0006-44/IPC	IC, ICA, ICI, IPCI
IPC, Action Date 2)	/IPC.ACD	S IPC.ACD=JAN 2006	IPC.TAB
IPC, Keyword Terms	/IPC.KW	S CORE/IPC.KW	IPC.TAB
IPC, Version 2)	/IPC.VER	S 200601/IPC.VER	IPC.TAB
IPC, Initial	/IPCI	S B21B0001/IPCI	IPCI
Language (code and text)	/LA	S EN/LA S ENGLISH/LA	LA
Main Group of IPC Version 1-7 Range Searchable 2)	/MGR	S C09K/ICM(S)18-20/MGR	not displayed
Patent Assignee 5)	/PA (/CS)	S DAINIPPON PRINT?/PA	PA
Patent Number Group 3)	/PATS	S JP06096131/PATS	PI
Patent Country (code and text)	/PC	S L7 AND JP/PC	PI
Publication Date 2)	/PD	S 19990629/PD	PI
Patent Kind Code	/PK	S ENERGY EXCHANG? AND JPA/PK	PI
Patent Number 3)	/PN	S JP06096131/PN	PI
Priority Country (WIPO code and text)	/PRC	S AU/PRC S AUSTRALIA/PRC	PRAI
Priority Date 2)	/PRD	S 29 MAY 1992/PRD	PRAI
Priority Date, First 2)	/PRDF	S 29 MAY 1992/PRDF	PRAI
Priority Number 3)	/PRN	S FR1992-13039/PRN S 1992FR-0013039/PRN	PRAI

- 1) In addition to right truncation, simultaneous left and right truncation are available in this field. At least 4 characters need to be used for the length of the stem.
- 2) Numeric search field that may be searched using numeric operators or ranges.
- 3) Either STN format or Derwent format may be used.
- 4) An online thesaurus is available in this field.
- 5) Search with implied (S) proximity is available in this field.

SEARCH AND DISPLAY FIELDS (continued)

Search Field Name	Search Code	Search Examples	Display Code
Priority Year	2) /PRY	S 1989/PRY	PRAI
Priority Year, First	2) /PRYF	S 1989/PRYF	PRAI
Publication Year	2) /PY	S 1992/PY	PI
Subgroup of IPC Version 1-7 Range-Searchable	2) /SGR	S C09K011/ICM(S)8000-20000/SGR	not displayed
Source (contains abstract journal and volume)	/SO	S VOL 2001/SO	SO
Title	/TI	S DC-DC CONVERTER#/TI	TI
Update Date	2) /UP	UP=APR 2004	UP

2) Numeric search field that may be searched using numeric operators or ranges.

Super Search Fields 1)

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Application Number Group	/APPS	/AP, /PRN	S 1991JP-0052634/APPS S JP1991-52634/APPS	AI, PRAI

1) Enter a super search code to execute a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.

IPC Thesaurus

The classifications, validity and catchwords for the main headings and subheadings from the current (8th) edition of the WIPO International Patent Classification (IPC) manual are available. The classifications from the previous editions (1-7) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-7, use the field code followed by the edition number, e.g., /IPC2, for the 2nd edition. Catchwords are included only in the thesauri for the 8th, 7th, 6th, and 5th editions.

Relationship-Code	Content	Examples
ADVANCED (ADV)	Advanced Codes for the Core Level IPC Code	E A61K0006-02+ADVANCED/IPC
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IC
BRO (MAN)	Complete Class	E C01C+BRO/IC
BT	Broader Term (BT, SELF)	E C01F001-00+BT/IC
CORE (COR)	Core Codes for the Advanced Level IPC Code	E G08C0019-22+CORE/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IC
HIE	Hierarchy Term (Broader and Narrower Term) (BT, SELF, NT)	E C011003-00+HIE/IC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IC
KT	Keyword Term (catchwords) (SELF, KT)	E CYANOGEN+KT/IC
NEXT	Next Classification	E C01C001-00+NEXT5/IC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IC
PREV	Previous Classification	E C01C001-12+PREV10/IC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IC

DISPLAY AND PRINT FORMATS

Any combination of display fields and formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g. 'D L1 1-5 TI PI'. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for most searchable fields. Highlighting must be ON during SEARCH in order to use the HIT, KWIC, and OCC formats.

More information about display fields for specific types of information is available by typing one of the following 'HELP' commands at an arrow prompt (=>) in the JAPIO database:

HELP DFIELDS	-	lists all valid custom formats
HELP EFIELDS	-	lists all selectable fields
HELP FORMATS	-	lists valid predefined formats
HELP SRTFIELDS	-	lists valid sort fields

Format	Definition	Examples
AB	Abstract	D TI AB 1-5
AI (AP) 1)	Application Information	D AI
AN	Accession Number	D L3 AN
DT (TC)	Document Type	D DT LA
ED 2)	Entry Date	D ED
FA	Field Availability	D FA
GI 3)	Graphic Image	D GI
GIS 2)	Graphic Image Size	D GIS
GIT 2)	Graphic Image Type	D GIT
IC	IPC (format contains ICM, ICS)	D IC
ICA	IPC, Additional (Supplementary)	
ICI	IPC, Index (Complementary)	
ICM	IPC, Main	D ICM
ICS	IPC, Secondary	D ICD
IN (AU)	Inventor	D IN
IPCI	IPC, Initial	D IPCI
PA (CS)	Patent Assignee	D PA
PI (PATS, PN) 1)	Patent Information	D PI
PRAI (PRN) 1)	Priority Information	D PRAI
SO	Source	
TI	Title	D TI
UP 2)	Update Date	
ABS	AN, AB	D TI PA ABS
ALL 1)	AN, TI, IN, PA, PI, AI, PRAI, SO, IPC, AB	D ALL
ALLG 1,3)	ALL plus Graphic Image	
DALL 1)	ALL, delimited for post-processing	D DALL
IALL 1)	ALL, but indented with text labels	D IALL 1-3
IALLG 1,3)	IALL plus Graphic Image	
APPS 1)	AI, PRAI	
BIB 1)	AN, TI, IN, PA, PI, AI, PRAI, SO	D BIB
BIBG 1,3)	BIB plus Graphic Image	
IBIB 1)	BIB, but indented with text labels	
IPC (IND)	International Patent Classification (ICM, ICS, ICA ICI, IPCI)	D IPC PA
IPC.TAB	IPC, IPC.KW, IPC.ACD, IPC.VER in Tabular Format	
SCAN 4)	TI (random display without answer numbers)	D SCAN

- 1) By default, patent numbers, application and priority numbers are displayed in STN Format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN Format, enter SET PATENT STN.
- 2) Custom display only.
- 3) Any program that handles TIFF and JPeg images compressed in Group 4 fax format, e.g., STN Express, may be used to capture graphic images from DISPLAY or they may be viewed directly on the screen during a STN on the WEB session.
- 4) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

DISPLAY AND PRINT FORMATS (continued)

Format	Definition	Examples
STD 1) STDG 1,3 ISTD 1) TRIAL (TRI, SAMPLE, SAM)	AN, TI, IN, PA, PI, AI, PRAI, SO, IPC (STD is default) STD plus Graphic Image STD, indented with text labels TI, FA, DETN, CLMN	
HIT KWIC OCC	Hit-term(s) and field(s) Up to 50 words before and after hit-term(s) (KeyWord-In-Context) Number of occurrences of hit-term(s) and field(s) in which they occur	D OCC 1-6

- 1) By default, patent numbers, application and priority numbers are displayed in STN Format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN Format, enter SET PATENT STN.
- 3) Any program that handles TIFF and JPeg images compressed in Group 4 fax format, e.g., STN Express, may be used to capture graphic images from DISPLAY or they may be viewed directly on the screen during a STN on the WEB session.

SELECT, ANALYZE, AND SORT CODES

The SELECT command is used to create E-numbered or L-numbered lists of terms taken from the specified field(s) in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphanumeric (A) or numeric (N) order of the specified field(s).

Definition	Code	Analyze/ Select 1)	Sort
Abstract	AB	x 2)	-
Application Country	AC	x	A
Application Date	AD	x	N
Application Information	AI (AP)	x	A
Accession Number	AN	x	-
Application Number	AP	x	A
Application Number Group	APPS	x	-
Document Type	DT (TC)	x 3)	-
Entry Date	ED	x	N
Field Availability	FA	x 3)	-
Graphic Image Size	GIS	x	N
Graphic Image Type	GIT	x	A
International Patent Classification	IC	x	A
IPC, Additional (Supplementary)	ICA	x	A
IPC, Index (Complementary)	ICI	x	A
IPC, Main	ICM	x	A
IPC, Secondary	ICS	x	A
Inventor	IN (AU)	x	A
IPC (ICM, ICS, ICA, ICI, IPCI, IPCR)	IPC	x	-
IPC, Advanced Level Symbols	IPC.A	x 4)	-
IPC, Advanced Level Symbols for Invention	IPC.AI	x 4)	-
IPC, Core Level Symbols	IPC.C	x 4)	-
IPC, Core Level Symbols for Invention	IPC.CI	x 4)	-
Pre-IPC8 Symbols from the ICM and first IPC8 values from 2006 onwards	IPC.F	x 4)	-

- 1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- 2) Appends /BI to the terms created by SELECT.
- 3) SELECT HIT and ANALYZE HIT are not valid with this field.
- 4) Appends /IPC to the terms created by SELECT.

SELECT, ANALYZE, AND SORT CODES (continued)

Definition	Code	Analyze/ Select 1)	Sort
IPC, Initial	IPCI	x 4)	-
Language	LA	x 3)	-
Patent Assignee	PA (CS)	x	A
Patent Number Group	PATS	x	-
Patent Country	PC	x	A
Publication Date	PD	x	N
Patent Information	PI (PN, PATS)	x	A
Patent Kind Code	PK	x	A
Patent Number	PN	x	A
Priority Information	PRAI (PRN)	x	A
Priority Information, Original	PRAI	x	A
Priority Country	PRC	x	A
Priority Date	PRD	x	N
Priority Date, First	PRDF	x	N
Priority Number	PRN	x	A
Priority Year	PRY	x	N
Priority Year, First	PRYF	x	N
Publication Year	PY	x	N
Subclass Group	SCG	x 5)	-
Subclass Group Additional	SCGA	x 6)	-
Subclass Group Main	SCGM	x 5)	-
Subclass Group Secondary	SCGS	x 7)	-
Subclass	SCL	x 5)	-
Subclass Additional	SCLA	x 6)	-
Subclass Main	SCLM	x 5)	-
Subclass Secondary	SCLS	x 7)	-
Source	SO	x	-
Title	TI	x (default)	A
Update Date	UP	x	N

- 1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- 3) SELECT HIT or ANALYZE HIT are not valid with this field.
- 4) Appends /IPC to the terms created by SELECT.
- 5) Appends /ICM to the terms created by SELECT.
- 6) Appends /ICA to the terms created by SELECT.
- 7) Appends /ICS to the terms created by SELECT:

SAMPLE RECORDS

DISPLAY IALLG (STN format)

ACCESSION NUMBER: 2001-088768 JAPIO
 TITLE: POWER UNIT FOR ELECTRIC MOTOR ASSIST BICYCLE
 INVENTOR: NAKAYAMA HIRONORI
 PATENT ASSIGNEE(S): YAMAHA MOTOR CO LTD
 PATENT INFORMATION:

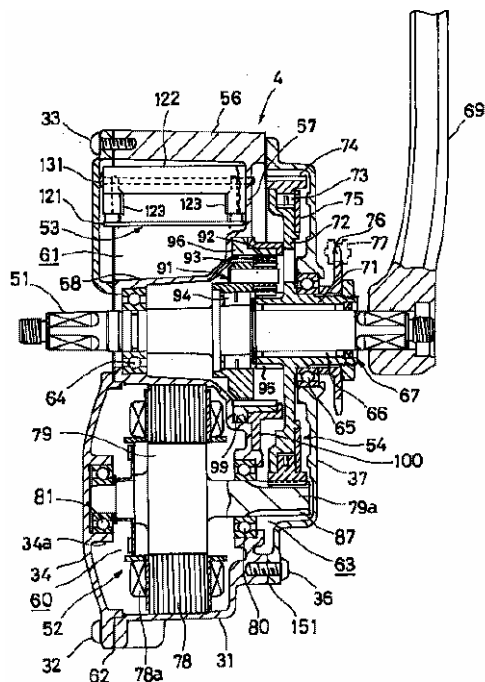
PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001088768	A	20010403	Heisei	B62M023-02

APPLICATION INFORMATION

STN FORMAT: JP 1999-266739 19990921
 ORIGINAL: JP11266739 Heisei
 PRIORITY APPLN. INFO.: JP 1999-266739 19990921
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001
 INT. PATENT CLASSIF.:

MAIN:

B62M023-02



ABSTRACT:

PROBLEM TO BE SOLVED: To provide a power unit for an electric motor assist bicycle capable of improving an assembling property and a heat insulating property of a motor and a controller and capable of reducing cost.

SOLUTION: A motor 52 is arranged to the rear of a car body from a pedal crankshaft 51 in a state where the axial direction comes to be in parallel with the pedal crankshaft 51. A controller 53 is arranged in front of the car body. The motor 52 and the controller 53 are structured to assemble on a housing 31 from the left side of the car body. A gear type power transmission device 54 to transmit rotation of the motor 52 and the pedal crankshaft 51 to a resultant force shaft 67 is structured to assemble on the housing 31 from the right side of the bicycle body. COPYRIGHT: (C)2001,JPO

DISPLAY ALL (STN Format)

AN 2006-025600 JAPIO
 TI ELECTRIC POWER REJECTION SYSTEM
 IN UMEKAGE YASUHIRO; NAKANE SHINICHI; KIMATA KUNIO; UEDA YASUKIYO; UEDA KOKICHI
 PA MATSUSHITA ELECTRIC IND CO LTD
 PI JP 2006025600 A 20060126 Heisei
 AI JP 2005-271641 (JP2005271641 Heisei) 20050920
 PRAI JP 2005-271641 20050920
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2006
 IPCI H02H0005-00 [I,A]; H02J0013-00 [I,A];
 H02H0005-00 [I,C*]; H02J0013-00 [I,C*]

AB PROBLEM TO BE SOLVED: To reject the supply of electric power when an earthquake occurs, with regard to an electric power rejection system.
 SOLUTION: The electric power rejection system is constituted of a gas flow measurement means 7 for measuring a gas flow, a seismoscope 8 for detecting vibration, an abnormality decision means 9 for deciding an abnormality, when the seismoscope 8 detects prescribed vibration, a transmission means 10 for transmitting an abnormality decision signal from the abnormality decision means 9, a gas meter 12 provided with a gas cut-off valve 11 cutting off a gas flow by the abnormality decision signal, a receiving means 13 for receiving the abnormality decision signal from the transmission means 10 provided in the gas meter 12, an electric power interruption switch 14 for

interrupting the supply of electric power, and an electric breaker 16 provided with a control means 15 for disconnecting the electric power interruption switch 14 by the abnormality decision signal received by the receiving means 13, the system is constituted so as to shut off the supply of the electric power, after the supply of the gas is interrupted when the abnormality is decided. COPYRIGHT: (C)2006,JPO&NCIPI

DISPLAY STD (Derwent Format)

AN 2006-025591 JAPIO
 TI VEHICULAR POWER SUPPLY DEVICE
 IN NAKAZAWA YOSUKE; MOCHIKAWA HIROSHI; KIRA HIROTADA; ISHIKAWA TOMOAKI; HENMI TAKUMA
 PA TOSHIBA CORP
 PI JP--2006025591 A 20060126 Heisei
 AI 2005JP-0122787 (JP2005122787 Heisei) 20050420
 PRAI 2004JP-0169330 20040608
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2006
 IPCI H02M-0003-28 [I,A]; B60L-0001-00 [I,A]; H02M-0007-48 [I,A];
 H02-M0003-24 [I,C*]; B60L-0001-00 [I,C*]; H02M-0007-48 [I,C*]

DISPLAY IPC.TAB

IPC	CODE	VERSION	POS	INV	LEVEL	CC	ASSIGNMENT	DATE	STAT
IPCI	H02M0003-28	(200601)	F	I	Advanced	JP	Human	20051222	O
	B60L0001-00	(200601)	L	I	Advanced	JP	Human	20051222	O
	H02M0007-48	(200601)	L	I	Advanced	JP	Human	20051222	O
	H02M0003-24	(2006)	L	I	Core*	RC	Machine	20051222	O
	B60L0001-00	(2006)	L	I	Core*	RC	Machine	20051222	O
	H02M0007-48	(2006)	L	I	Core*	RC	Machine	20051222	O