

TWFULL (Patents Full-Text of Taiwan, Province of China)

File Subject Coverage	All patent-relevant areas of science and technology, i.e., all classes of the International Patent Classification		
File Type	Full-text		
Features	Thesauri	International Patent Classification (/IPC), Cooperative Patent Classification (/CPC)	
	Alerts (SDIs)	Weekly or monthly (weekly is the default)	
	CAS Registry Number® Identifiers	☐	SLART ☒
	Keep & Share	☒	Structures ☐
	Register Links	☒	
Record Content	- Database records comprise all documents published for one application. Records contain bibliographic data including patent applicant, inventor, and agent data, patent, application, priority, and related application data, IPC, CPC, and EPO/ICO classification codes, abstract, and full-text of description and claims. - Independent claims and claim groups are searchable for all claims in English. - Standardized and normalized patent assignee names are searchable in their own fields /PAS and /PAN. - Numeric values of 59 physical and chemical properties are searchable in about 20,000 variants of the base and additional units within all full text fields in English. - Ultimate Owners are searchable in the field /UO and /UOS. - Patent Status Indicator is searchable in the field /STI. - Key terms, indexed and displayed in the field /KT, enhance retrieval of relevant results, and make the evaluation of results more efficient. They are useful to broaden search scope more precisely than basic index searches. - Some of the full-text has been created by Optical Character Recognition (OCR) software. Therefore, a small number of characters may have been misinterpreted, or portions of the text may have been incompletely recognized. - Clipped images (mostly front-page images) are included when available.		
File Size	- More than 2.23 million family records with more than 2.9 million publications. - More than 1.89 million front page images from 1992 to present (01/2026)		
Coverage	Full-text of patent applications, granted patents, utility models and design patents published by the Taiwan Intellectual Property Office (TIPO) from 1950 onwards.		
Updates	- Weekly updates including IPC and CPC - New records are available about a week after publication date with the complete content		
Language	- English - Abstracts, detailed descriptions and claims are machine translated to English or from equivalent documents, titles are human translated.		
Database Producer	LexisNexis Business Information Solutions B.V. Radarweg 29 1043 NX Amsterdam The Netherlands Copyright Holder		

Sources	Patent applications, granted patents, utility models, and design patents by the Taiwan Intellectual Property Office (TIPO)
User Aids	• Online Helps (HELP DIRECTORY lists all help messages available) • Help for numeric property search: HELP NPS • Help for patent status indicator: HELP STI • Help for key terms: HELP KEY TERMS • Help for normalized patent assignee names: HELP PAN • Help for search fields Independent Claims and Claim Groups: HELP CLAIMS • STNGUIDE
Cluster	• AEROTECH • ALLBIB • AUTHORS • CORPSOURCE • ENGINEERING • FULLTEXT • HPATENTS • NPS • PATENTS • PNTTEXT STN Database Cluster information

Search and Display Field Codes

If multiple search terms are linked with the AND-operator, all terms are searched in the complete database record, i.e., in all publications referring to one application. For a search in a specific publication of the record, connect the search term and the patent kind code with the (L)-proximity operator, e.g. S BOREHOLE/AB, TI, CLM (L) TWA/PK limits the search to Taiwan applications TWA.

Fields that allow left truncation are indicated by an asterisk (*).

General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from title (TIEN), abstract (AB), detailed description (DETD), claims (CLM), main claims (MCLM), and key terms (KT) fields)	None or /BI	S TRANSISTOR AND ELECTRODE S ACOUSTIC SENSOR S ?TRANSFER?	TIEN, AB, ABEN, DETD, DETDEN, CLM, CLMEN, MCLM, MCLMEN, KT
Abstract*	/AB	S BOREHOLE/AB	AB
Abstract (English)*	ABEN	S BOREHOLE/ABEN	ABEN, AB
Accession Number	/AN	S 2000269/AN	AN
Agent	/AG	S BOLLI PETER/AG	AG
Application Country (WIPO code and text)	/AC	S TW/AC	AI
Application Date (1)	/AD	S AD=JAN 2011	AI
Application Kind Code	/AK	S TWA1/AK	AI
Application Number (2)	/AP	S TW1918-120974/AP	AI
Application Number, Original	/APO	S TW000009/APO	APO
Application Year (1)	/AY	S AY>=2005	AI
Claims*	/CLM	S DERIVATION/CLM	CLM
Claims (English)*	/CLMEN	S DERIVATION/CLMEN	CLMEN, CLM
Claims, Claim Groups*	/CLM.CG	S OFFICE CHAIR/CLM.CG	CLMEN, CG, CLMEN, CLM
Claims, Independent Claims*	/CLM.IC	S OFFICE CHAIR/CLM.IC	CLM.IC, CLMEN, CLM
Cooperative Patent Classification (3)	/CPC	S C12N0009/CPC	CPC
Cooperative Patent Classification, Action Date	/CPC.ACD	S 20121113/CPC.ACD	CPC.TAB
Cooperative Patent Classification, Keyword	/CPC.KW	S C12N0009/CPC (S) I/CPC.KW	CPC.TAB
Cooperative Patent Classification, Version	/CPC.VER	S 20130101/CPC.VER	CPC.TAB
Data Entry Date (1)	/DED	S 20190930-20191031/DED	DED
Data Update Date (1)	/DUPD	S 20190827/DUPD	DUPD
Detailed Description	/DETD	S LASER/DETD	DETD
Detailed Description (English)	/DETDEN	S LASER/DETDEN	DETDEN
Document Type (code and text)	/DT (or /TC)	S PATENT/DT	DT
Entry Date (1)	/ED	E 20220101/ED	ED
Entry Date of Fulltext (1)	/EDTX	S EDTX>20191130	EDTX
EPC, Keyword Terms	/EPC.KW	S 221B/EPC.KW	EPC
European Patent Classification	/EPC	S H01L0021-285B4H2/EPC	EPC
Field Availability (4)	/FA	S ABEN/FA S AB.EQ/FA	FA
Graphic Image	/GI	S GI/FA	GI
International Patent Classification (Version 1-8) (ICM, ICS, IPCI, IPCR) (3)	/IPC	S A01B0037-00/IPC	ICM, ICS, IPCI, IPCR
International Patent Classification (Version 1-7) (ICM, ICS) (3)	/IC	S A01B0037-00/IC	IC, ICM, ICS

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Inventor Inventor, Country (WIPO code and text) IPC, Action Date IPC Initial IPC, Keyword Terms IPC Main	/IN (or /AU) /IN.CNY /IPC.ACD /IPC /IPC.KW /ICM (or IPCM)	S SATIJN, DAVID P.E./IN S TW/IN.CNY S 13 JAN 2021/IPC.ACD S B21B0001/IPC S INITIAL/IPC.KW S B01D0035-28/ICM	IN IN, IN.CNY IPC.TAB IPC IPC.TAB ICM, IC
IPC Reclassified IPC, Reform IPC Secondary	/IPCR /IPC.REF /ICS (or IPCS)	S B21D0007-08/IPCR S A01B0001-22/IPC.REF S B65F0001-14/ICS	IPCR, IPC IPC.TAB ICS, IC
IPC, Version	/IPC.VER (or IC.VER)	S 7/IPC.VER	IPC.TAB
Key Terms Language (code and text) Language, Filing (code and text) Locarno Classification Main Claim* Main Claim (English)* Number of Claims (1) Number of Paragraphs in DETD (Detailed Description) (1) Patent Assignee (4)	/KT /LA /LAF /LCL /MCLM /MCLMEN /CLMN /DETN /PA (or /CS)	S (LASER (3A) SOURCE?)/KT S CHINESE/LA S EN/LAF S 15-02/LCL S LASER/MCLM S LASER/MCLMEN S 5-10/CLMN S 20-30/DETN S SAMSUNG/PA	KT LA LAF LCL MCLM MCLMEN CLMN DETN PA
Patent Assignee, Country Patent Assignee Normalized (4) Patent Assignee Standardized (4)	/PA.CNY /PAN /PAS	S TW/PA.CNY S SAMSUNG/PAN S SAMSUNG AEROSPACE INDUSTRIES/PAS	PA, PA.CNY PAN PAS
Patent Country (WIPO code and text) Patent Information Type	/PC /PIT	S TW/PC S "TWB GRANTED PATENT OR PATENT OF ADDITION (FROM 19500101 ONWARDS)"/PIT	PI PIT
Patent Kind Code Patent Number (2)	/PK /PN (or /PATS)	S TWA/PK S TW2022035558/PN	PI PI
Patent Number Original Patent Number/Kind Code Patent Status Established Date Patent Status Indicator	/PNO /PNK /STED /STI	S TW000007/PNO S TW10018 B/PNK S 20250227/STED S ALIVE STI S A/STI	PNO PI STED STI
Physical Properties Priority Country (WIPO code and text) Priority Date (1)	/PHP /PRC /PRD	S BIT RATE/PHP (S) DISC/BI S BE/PRC S KOREA, REPUBLIC OF/PRC S PRD=DEC, 30 2000	KWIC PRN PRN
Priority Date, First (1) Priority Number (2) Priority Number Original	/PRDF /PRN /PRNO	S 20001230/PRD S 20010112/PRDF S AT1996-1779/PRN S AT1112014/PRNO	PRN PRN PRNO, PRAO

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Priority Year (1)	/PRY	S 1999/PRY	PRN
Priority Year, First (1)	/PRYF	S 1999/PRYF	PRN
Publication Date (1)	/PD	S 19990108/PRD	PI
Publication Year (1)	/PY	S 2017/PY	PI
Related Application Country	/RLC	S WO/RLC	RLI
Related Application Number	/RLN	S WO1992-US7383/RLN	RLI
Related Application Date (1)	/RLD	S 20010222/RLD	RLI
Related Application Type	/RLT	S PCT APPLICATION/RLT	RLI
Related Application Year (1)	/RLY	S 2017/RLY	RLI
Related Patent Country	/RLPC	S WO/RLC	RLI
Related Patent Date (1)	/RLPD	S 20020117/RLPD	RLI
Related Patent Number	/RLPN	S WO2000034546/RLPN	RLI
Related Patent Year (1)	/RLPY	S 1999/RLPY	RLI
Title*	/TI	S LASER/TI	TI
Title (English)*	/TIEN	S LASER/TIEN	TIEN, TI
Ultimate Owner (4)	/UO	S FOXCONN/UO	UO
Ultimate Owner Standardized (4)	/UOS	S FOXCONN/UOS	UOS
Update Date (1)	/UP	S UP>SEP 2022	UP
Update Date Text (1)	/UPTX	S UPTX=2022	UPTX

- (1) Numeric search field that may be searched using numeric operators or ranges.
 (2) 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) An online thesaurus is available in this field.
 (4) Search with implied (S) proximity is available in this field.

Super Search Fields

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

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Application Number Group	/APPS	AP, APO, PRN, PRNO, RLN	S AT1996-1779/APPS	AI, APO, PRAI, PRNO, RLL, APPS
Patent Assignee Group	/PASS	PA, PA.T, PAS, PAN, UO	S SAMSUNG/PASS	PA, PAS, PAN, UO, PASS
Patent Number Group	/PATS	PN, PNO, RLPN	S TW2021046687/PATS	PN, RLPN, PATS

Property Fields ⁽¹⁾

In TWFULL a numeric search for a specific set of physical properties (/PHP) is available within the full-text fields (TI, AB, DETD, CLM, BI). The numeric values are not displayed as single fields, but highlighted within the hit displays.

Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in all database fields with English text. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

Field Code	Property	Unit	Symbol	Search Examples
/AOS	Amount of substance	Mol	mol	S 10 /AOS
/BIR	Bit Rate	Bit/Second	bit/s	S 8000-10000/BIR
/BIT	Stored Information	Bit	Bit	S BIT > 3 MEGABIT
/CAP	Capacitance	Farad	F	S 1-10 MF/CAP
/CATA	Catalytic Activity	Katal	kat	S 1-1000/CATA
/CDN	Current Density	Ampere/Square Meter	A/m ²	S CDN>10 A/M**2
/CMOL	Molarity, Molar Concentration	Mol/Liter	mol/L	S UREA/BI (S) 8/CMOL
/CON	Conductance	Siemens	S	S 1S-3/CON
/DB	Decibel	Decibel	dB	S DB>50
/DEG	Degree	Degree	°	S CYLINDER/BI (S) 45/DEG
/DEN (/C)	Density (Mass Concentration)	Kilogram/Cubic Meter	kg/m ³	S 5E-3-10E-3/DEN
/DEQ	Dose Equivalent	Sievert	Sv	S 100/DEQ
/DOA	Dosage	Milligram/Kilogram/Day	mg/kg/day	S 300/DOA
/DOS (/LD50)	Dosage	Milligram/Kilogram	mg/kg	S DOS>0.8
/DV	Viscosity, dynamic	Pascal * Second	Pa * s	S DV>5000
/ECH (/CHA)	Electric Charge	Coulomb	C	S 0.0001-0.001/ECH
/ECO (/ECND)	Electrical Conductivity	Siemens/Meter	S/m	S ECO>800 S/M (15A) AQUEOUS
/ELC (/ECC)	Electric Current	Ampere	A	S 1-10/ELC
/ELF (/ECF)	Electric Field	Volt/Meter	V/m	S 200/ELF
/ENE	Energy	Joule	J	S HEAT (15A) 4 JOULE - 3000 JOULE /ENE
/ERE (/ERES)	Electrical Resistivity	Ohm * Meter	Ohm * m	S ERE>0.1
/FOR	Force	Newton	N	S 50 N /FOR
/FRE (/F)	Frequency	Hertz	Hz	S OSCILLAT?/BI (S) 1- 3/FRE
/IU	International Unit	none	IU	S IU>1000 (P) VITAMIN A
/KV	Viscosity, kinematic	Square Meter/Second	m ² /s	S POLYSILOXANE/BI (10A) 2-5000 CST/KV
/LEN (/SIZ)	Length, Size	Meter	m	S 1-4/LEN
/LUME	Luminous Emittance	Lux	lx	S 10-50/LUME
/LUMF	Illuminance	Lumen	Lm	S LUMF>1000
/LUMI	Luminous Flux	Candela	cd	S LUMI<4
/M	Luminous Intensity	Kilogram	kg	S ALLOY/BI (30A) 1E-10-1E-5/M
/MCH	Mass to Charge Ratio	none	m/z	S MCH=1

Property Fields ⁽¹⁾ (cont'd)

Field Code	Property	Unit	Symbol	Search Examples
/MFD (/MFS)	Magnetic Flux Density	Tesla	T	S MFD>102
/MFR (/MFL)	Mass Flow Rate	Kilogram/Second	kg/s	S MFR<0.1
/MFST	Magnetic Field Strength	Ampere/Meter	A/m	S MFST/PHP
/MM (/MW, /MOM)	Molar Mass	Gram/Mol	g/mol	S 2000-3000 G/MOL/MM
/MOLS /MVR	Molality of Substance Melt Volume Rate, Melt Flow Rate	Mol/Kilogram none	mol/kg g/10 min	S 01.-10 MOL/KG/MOLS S 3/MVR
/PER	Percent (Proportionality)	none	%	S POLYMER?/AB (5A) 4/PER
/PHV (/PH)	pH Value	pH	pH	S 7.4-7.6/PHV
/POW (/PW)	Power	Watt	W	S "HG-XE-?"/BI (S) 100-200 WATT/POW
/PPM /PRES (/P)	Parts per million Pressure	Ppm Pascal	ppm Pa	S 100 PPM /PPM (10A) ADDITIVE/BI S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES
/RAD	Radioactivity	Becquerel	Bq	S RAD/PHP
/RES	Electrical Resistance	Ohm	Ohm	S SENSOR /BI (S) 10- 100/RES
/RI	Refractive Index	none		S 3-4/RI
/RSP	Rotational Speed	Revolution/Minute	rpm	S 2 RPM - 100 RPM /RSP (S) ENGINE/BI
/SAR	Area /Surface Area	Square Meter	m ²	S PLATE/BI (S) 10 M**2 - 100 M**2 /SAR
/SOL (/SLB)	Solubility	Gram/100 gram	g/100 g	S SOL>20 G/100G (5A) WATER
/SSAM	Specific Surface Area, Mass	Square Meter/ Kilogram	m ² /kg	S 9/SSAM
/STSC	Surface Tension, Spring Constant	Joule /Square Meter	J/m ²	S 60 J/M**2/STSC
/TCO (/TCND)	Thermal Conductivity	Watt/Meter * Kelvin	W/m * K	S 1/TCO (S) HEAT?
/TEMP (/T)	Temperature	Kelvin	K	S 20-25/TEMP
/TEX	Tex	Gram/Kilometer	g/km	S 1-5/TEX
/TIM	Time	Second	s	S ?INCUB?/BI (10A) 50 S - 150 S /TIM
/VEL (/V)	Velocity	Meter per Second	m/s	S REDUC?/BI (S) 1E-3-5E-3/VEL
/VELA	Velocity, angular	Radian/Second	rad/s	S VELA>10
/VLR	Volumetric Flow Rate	Cubic Meter/Second	m ³ /s	S 1 M**3/S - 2 M**3/S /VLR (S) ABRASIVE
/VOL	Volume	Cubic Meter	m ³	S 1E-8-2E-8/VOL.EX
/VOLT	Voltage	Volt	V	S BATTERY/BI (10A) 1E-3 V <VOLT<9E-3 V

(1) Exponential format is recommended for the search of particularly high or low values, e.g., 1.8E+7 or 1.8E7 (for 18000000) or 9.2E-8 (for 0.000000092).

International Patent Classification (/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.

Code	Content	Examples
ADVANCED (ADV)	Advanced Codes for the Core Level IPC Code	E A61K0006-06+ADVANCED/IPC
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IPC
BRO (MAN)	Complete Class	E C01C+BRO/IPC
BT	Broader Term (BT, SELF)	E C01F001-00+BT/IPC
CORE (COR)	Core Codes for the Advanced Level IPC Code	E G08C0019-22+CORE/IPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IPC
HIE	Hierarchy Term (Broader and Narrower Term) (BT, SELF, NT)	E C01B003-00+HIE/IPC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IPC
KT	Keyword Term (catchwords) (SELF, KT)	E CYANOGEN+KT/IPC
NEXT	Next Classification	E C01C001-00+NEXT5/IPC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IPC
PREV	Previous Classification	E C01C001-12+PREV10/IPC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IPC

ECLA (/EPC) and ICO Thesauri

These thesauri are available in the /EPC search field (for ECLA codes) and /ICO search field (for 'in-computer-only' codes). All relationship codes can be used with both the EXPAND and SEARCH commands.

Relationship Code	Content	Search Examples
ALL	All usually required terms (BT, SELF, CODE, DEF)	E C12M0001-34H2+ALL/EPC
AUTO (1)	Automatic relationship (BT, SELF, CODE, DEF)	E G01J003-443+AUTO/EPC
BT	Broader terms (BT, SELF)	E G01J003-443+BT/EPC
CODE	Classification Code (SELF, CODE)	E SCRAPER BIASING MEANS+CODE/EPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/EPC
HIE	Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT)	E A01B0001+HIE/EPC
KT	Keyword terms (SELF, KT)	E LASER+KT/EPC
MAX	All associated terms	E G01J003-44B+MAX/EPC
NEXT	Next classification within the same class (SELF, NEXT)	E A01B0001-24+NEXT/EPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/EPC
NT	Narrower terms	E G05B0001-04+NT/EPC
PREV	Previous Code within the same class (SELF, PREV)	E G05B0019-418N1+PREV/EPC
PREV(n)	Previous n classifications within the same class	E G05B0019-418N1+PREV2/EPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E G05B0001-03+TI/EPC

- (1) Automatic Relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

CPC Thesaurus

This thesaurus is available in the /CPC search field. All relationship codes can be used with both the EXPAND and SEARCH commands.

Relationship Code	Content	Search Examples
ALL	All usually required terms (BT, SELF, CODE, DEF)	E C12M0001-005+ALL/CPC
AUTO (1)	Automatic relationship (BT, SELF, CODE, DEF)	E G01J003-443+AUTO/CPC
BT	Broader terms (BT, SELF)	E G01J0003-443+BT/CPC
CODE	Classification Code (SELF, CODE)	E CARTRIDGES+CODE/CPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/CPC
HIE	Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT)	E A01B0001+HIE/CPC
KT	Keyword terms (SELF, KT)	E LASER+KT/CPC
MAX	All associated terms	E G01J0003-44+MAX/CPC
NEXT	Next classification within the same class (SELF, NEXT)	E A01B0001-24+NEXT/CPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/CPC
NT	Narrower terms	E G05B0001-04+NT/CPC
PREV	Previous Code within the same class (SELF, PREV)	E G05B0019-00+PREV/CPC
PREV(n)	Previous n classifications within the same class	E G05B0019-00+PREV2/CPC
TI	Complete Title of SELF Term and Broader Terms (BT, SELF)	E G05B0001-03+TI/CPC

- (1) Automatic Relationship is SET OFF. In case of SET REL ON, the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

DISPLAY and PRINT Formats

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

The information of the latest publication is displayed by default. To display the content for all levels of the record you can combine all display fields and formats with the qualifier .M except FA, SCAN, and TRIAL.

For displaying a particular publication of a database record, you can simply add for certain display field the kind code to the appropriate display format, e.g., ALL.A. Fields that allow this are indicated by a number **(3)**.

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

The default display format is STD.M, i.e., all publication levels of one family in the STD format.

In all predefined formats APO and PRAO with the non-standardized application or priority numbers are displayed if the standardized numbers in AI and PRAI are not available.

Format	Content	Examples
AB (ABS)	Abstract	D TI AB 1-5
ABEN	Abstract (English)	D ABEN
ABZH	Abstract (Chinese)	D ABZH
AG	Agent	D AG
AGZH	Agent (Chinese)	D AGZH
AI (AP) (1)	Application Information	D AI
AN	Accession Number	D L3 AN
APO	Application Number Original	D APO
CLM	Claims	D CLM
CLM.CG	Claims, Claim Groups	D CLM CG
CLM.IC	Claims, Independent Claims	D CLM IC
CLMEN	Claims (English)	D CLMEN
CLMZH	Claims (Chinese)	D CLMZH
CLMN (2)	Number of Claims	D CLMN
CPC	Cooperative Patent Classification	D CPC
CPC.TAB	CPC, Tabular	D CPC.TAB
DETD (3)	Detailed Description	D DETD
DETDEN (3)	Detailed Description (English)	D DETDEN
DETDZH	Detailed Description (Chinese)	D DETDZH
DETN (2)	Number of Paragraphs in DETD	D DETN
DT (TC)	Document Type	D DT
ED	Entry Date	D ED
EDP	Entry Date Patent	D EDP
EDTX	Entry Date of Fulltext	D EDTX
EPC	European Patent Classification	D EPC
FA	Field Availability (for all publication levels)	D FA
GI	Graphic Image	D GI
IC	International Patent Classification, Version 1-7 (ICM, ICS)	D IC
ICM	IPC, Main	D IC
ICO	In-Computer-only Classification	D ICO
ICS	IPC, Secondary	D ICS
IN (AU)	Inventor	D IN
INZH	Inventor (Chinese)	D INZH
IN.CNY	Inventor, Country	D IN.CNY
IPC	International Patent Classification, Version 1-8 (ICM, ICS, IPCI, IPCR)	D IPC
IPCI	IPC, Initial	D IPCI
IPCR	IPC, Reclassified	D IPCR
KT	Key Terms	D KT
LA	Language	D LA
LAF	Language of Filing	D LAF
LCL	Locarno Classification	D LCL
MCLM	Main Claim	D MCLM
MCLMEN	Main Claim (English)	D MCLMEN
MCLMZH	Main Claim (Chinese)	D MCLMZH

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
PA (CS) PAZH PA.CNY PAN PAS PI (PN, PATS) (1) PIT PNO PRN (PRAI) (1, 5) PRNO (PRAO) (2) RLI (RLN) RLPI STED STI TI TIEN TIZH UO UOS UP UPTX	Patent Assignee (English) Patent Assignee (Chinese) Patent Assignee, Country Patent Assignee Normalized Patent Assignee Standardized Patent Information Patent Information Type Patent Number Original Priority Information Priority Number Original Related Application Information Related Patent Information Patent Status Established Date Patent Status Indicator Title Title (English) Title (Chinese) Ultimate Owner Ultimate Owner Standardized Update Date Update Date Text	D PA D PAZH D PA.CNY D PAN D PAS D PI D PIT D PNO D PRN D PRNO D RLI D RLPI D STED D STI D TI D TIEN D TIZH D UO D UOS D UP D UPTX
ALL (1) ALLG ALLO IALL (1) IALLG DALL (1) APPS (1) BIB (1) BIBG BIBO IBIB (1) IBIBG BRIEF (1) BRIEFG BRIEFO IBRIEF (1) IBRIEFG IND IPC IPC.TAB CPC.TAB	AN, EDP, ED, UP, EDTX, UPTX, DED, DUPD, TIEN, IN, PA, PAS, PAN, UO, UOS, AG, LAF, LA, DT, PI, PIT, STI, AI, RLI, ICM, ICS, IPCI, IPCR, CPC, LCL, ABEN, DETDEN, CLMEN, KT ALL, plus graphic image AN, ED, UP, EDTX, UPTX, DED, DUPD, TIEN, TIZH, IN, INZH, PA, PAZH, PAS, PAN, UO, UOS, AG, AGZH, LAF, LA, DT, PI, PIT, STI, AI, PRAI, ICM, ICS, IPCI, IPCR, CPC, EPC, ICO, LCL, ABEN, ABZH, DETDEN, DETDZH, CLMEN, CLMZH, KT ALL, indented with text labels IALL, plus graphic image ALL, delimited for post processing AI, RLN, PRAI AN, EDP, ED, EDTX, UP, UPTX, DED, DUPD, TIEN, IN, PA, PAS, PAN, UO, UOS, AG, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI BIB, plus graphic image AN, EDP, ED, UP, EDTX, UPTX, DED, DUPD, TIEN, TIZH, IN, INTH, PA, PAZH, PAS, PAN, UO, UOS, AG, AGZH, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI BIB, indented with text labels IBIB, plus graphic image AN, EDP, ED, EDTX, UP, UPTX, DED, DUPD, TIEN, IN, PA, PAS, PAN, UO, UOS, AG, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI, ICM, ICS, IPCI, IPCR, CPC, EPC, ICO, LCL, ABEN, MCLMEN, KT BRIEF, plus graphic image AN, EDP, ED, UP, EDTX, UPTX, DED, DUPD, TIEN, TIZH, IN, INZH, PA, UO, UOS, PAZH, PAS, PAN, AG, AGZH, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI, ICM, ICS, IPCI, IPCR, CPC, EPC, ICO, LCL, ABEN, ABZH, MCLMEN, MCLMZH, KT BRIEF, indented with text labels IBRIEF, plus graphic image ED, IPC (ICM, ICS, IPCI, IPCR), CPC, EPC, ICO, LCI International Patent Classification (ICM, ICS, IPCI, IPCR) IPC, IPC.KW, IPC.VER, in tabular version CPC, in tabular version	D ALL D ALLG D ALLO D IALL D IALLG D DALL D APPS D BIB D BIBG D BIBO D IBIB D IBIBG D BRIEF D BRIEFG D BRIEFO D IBRIEF D IBRIEFG D IND D IPC D IPC.TAB D CPC.TAB

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
MAX (ALL.M) (1)	AN, EPD, ED, EDTX, UP, UPTX, DED, DUPD, TIEN, IN, PA, PAS, PAN, UO, UOS, AG, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI, ICM, ICS, IPCI, IPCR, CPC, EPC, ICO, LCL, ABEN, DETDEN, CLMEN, KT, FA for all levels of publication	D MAX
MAXG MAXO (ALLO.M)	MAX, plus graphic image AN, EDP, ED, UP, EDTX, UPTX, DED, DUPD, TIEN, TIZH, IN, INZH, PA, PAZH, PAS, PAN, UO, UOS, AG, AGZH, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI, ICM, ICS, IPCI, IPCR, CPC, EPC, ICO, LCL, ABEN, ABZH, DETDEN, DETDZH, CLMEN, CLMZH, KT	D MAXG D MAXO
IMAX (IALL.M) (1) IMAXG SCAN (4) STD (1)	MAX, indented with text labels IMAX, plus graphic image TI (random display without answer numbers) AN, EDP, ED, EDTX, UP, UPTX, DED, DUPD, TIEN, IN, PA, PAS, PAN, UO, UOS, AG, LAF, LA, DT, PI, PIT, STI, AI, PRAI, RLPI, RLI, ICM, ICS, IPCI, IPCR, CPC, EPC, ICO, LCL (STD.M is default)	D IMAX D IMAXG D SCAN D STD
ISTD (1) TRIAL (TRI, SAM, SAMPLE, FREE) TX	STD, indented with text labels ED, EDTX, UP, UPTX, TIEN, FA, DETN, CLMN DETDEN, CLMEN	D ISTD D TRIAL D TX
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 HIT D KWIC D OCC

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The SELECT command is used to create E-numbers containing terms taken from the specified field(s) in an answer set.

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Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Abstract (English)	ABEN	Y	N
Accession Number	AN	Y	Y
Agent	AG	Y	Y
Application Country	AC	Y	Y
Application Date	AD	Y	Y
Application Information	AI (AP)	Y (2)	Y
Application Kind Code	AK	Y	Y
Application Number Group	APPS	Y	Y
Application Number, Original	APO	Y	N
Application Year	AY	Y	Y
CPC Classification	CPC	Y	Y
Document Type	DT (TC)	Y	Y
Entry Date	ED	Y	Y
Entry Date Full-Text	EDTX	Y	Y
Entry Date Patent	EDP	Y	Y
EPC	EPC	Y	Y
Field Availability	FA	Y	N
ICO	ICO	Y	Y
International Patent Classification	IC	Y	N
Inventor	IN (AU)	Y	Y
Inventor, Country	IN.CNY	Y	Y
IPC (ICM, ICS, IPCI, IPCR)	IPC	Y	Y
IPC, Advanced Level Symbols	IPC.A	Y	Y
IPC, Advanced Level Symbols for Invention	IPC.AI	Y (3)	N
IPC, Core Level Symbols	IPC.C	Y	N
IPC, Core Level Symbols for Invention	IPC.CI	Y (3)	N
IPC Initial	IPCI	Y	Y
IPC Main	ICM	Y	Y
IPC Reclassified	IPCR	Y	Y
IPC, Reform	IPC.REF	Y	N
IPC Secondary	ICS	Y	Y
Key Terms	KT	Y	N
Language	LA	Y	Y
Language of Filing	LAF	Y	Y
Locarno Classification	LCL	Y	Y
Number of Paragraphs in DETD	DETN	N	Y
Occurrence Count of Hit Terms	OCC	N	Y
Patent Assignee	PA (CS)	Y	Y
Patent Assignee, Country	PA.CNY	Y	Y
Patent Assignee Normalized	PAN	Y	Y
Patent Assignee Standardized	PAS	Y	Y
Patent Country	PC	Y	Y
Patent Information Publication Type	PIT	Y	Y
Patent Kind Code	PK	Y	Y
Patent Number	PI (PN, PATS)	Y (default)	Y
Patent Number, Original	PNO	Y	Y
Patent Number/Kind Code	PNK	Y	Y

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Patent Status Established Date	STED	Y	Y
Patent Status Indicator	STI	Y	Y
Pre-IPC8 Symbols from ICM and first IPC8 values from 2006-present	IPC.F	Y (3)	Y
Priority Country	PRC	Y	Y
Priority Date	PRD	Y	Y
Priority Date, First	PRDF	Y	Y
Priority Number	PRN (PRAI)	Y	Y
Priority Number, Original	PRNO	Y	Y
Priority Year	PRY	Y	Y
Priority Year, First	PRYF	Y	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Related Patent Country	RLC	Y	Y
Related Application Number	RLN	Y	Y
Related Application Date	RLD	Y	Y
Related Application Type	RLT	Y	Y
Related Application Year	RLY	Y	Y
Related Publication Date	RLPD	Y	Y
Related Patent Number	RLPN	Y	Y
Related Publication Year	RLPY	Y	Y
Title	TI	Y	Y
Title (English)	TIEN	Y	Y
Ultimate Owner	UO	Y	Y
Ultimate Owner Standardized	UOS	Y	Y
Update Date	UP	Y	Y
Update Date Text	UPTX	Y	Y

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Sample Records

DISPLAY BIB

AN 1992812 TWFULL EDP 20221013 ED 20221013 UP 20221028 EDTX 20221013
DED 20210906 DUPD 20220830 Full-text
TIEN Steering link mechanism for inclinable vehicle
TIZH 用於可傾車輛的轉向連桿機構
IN YU RUN-XIANG, TW
PA KWANG YANG MOTOR CO, TW
PAS KWANG YANG MOTOR
PAN KWANG YANG MOTOR
UO KWANG YANG MOTOR CO., LTD.
UOS Kymco
LAF English
LA Chinese
DT Patent; Utility Model; (Fulltext)
PI TW M616179U U 20210901
PIT TWU REGISTERED UTILITY MODEL OR UTILITY MODEL OF ADDITION [FROM 19500101 ONWARDS]
STI ALIVE
AI TW 2020-213256 20201008
PRAI TW 2020-213256 20201008

DISPLAY ISTD.M

ACCESSION NUMBER: 1975965 TWFULL
ENTRY DATE PATENT: 20221013 Full-text
ENTRY DATE: 20221013
UPDATE DATE: 20240507
ENTRY DATE (FULLTEXT): 20221013
DATA ENTRY DATE: 20220318
DATA UPDATE DATE: 20240501
TITLE (ENGLISH): APPARATUSES WITH MOVABLE PANELS TO SUPPORT ELECTRONIC MODULES
TITLE (CHINESE): 具有可移動面板以支撐電子
模組之設備
INVENTOR(S): SU, VICTOR
PATENT APPLICANT(S): HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., 10300 ENERGY DRIVE,
SPRING, TEXAS 77389, U.S.A. (US);
PATENT APPL. STANDARD.: HEWLETT PACKARD DEVELOPMENT
PATENT APPL. NORMAL.: HEWLETT PACKARD
ULTIMATE OWNER: HP INC.
ULTIMATE OWNER STANDARD: HP Inc.
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: Chinese
DOCUMENT TYPE: Patent; (Fulltext)
PATENT INFORMATION: TW 2022007777 A 20220216
PATENT INFO. TYPE: TWA LAID OPEN APPLICATION FOR PATENT OR PATENT OF ADDITION [FROM
20030501 ONWARDS]
PATENT STATUS INDICATOR: DEAD
APPLICATION INFO.: TW 2021-110446 20210323
PRIORITY INFO.: WO 2020-US44618 20200731
RELATED PATENT INFO.: WO 2022025931 20220203
RELATED DOC. INFO.: WO 2020-US44618 20200731 PCT Application
IPC ORIGINAL: H05K0007-12 [I,A]; G06F0001-16 [I,A]
CPC CLASSIF.: G06F0001-186; G06F0001-185; G06F0001-181

ACCESSION NUMBER: 1975965 TWFULL
ENTRY DATE PATENT: 20221013 Full-text
ENTRY DATE: 20221024
UPDATE DATE: 20240507
ENTRY DATE (FULLTEXT): 20221024
DATA ENTRY DATE: 20220725
DATA UPDATE DATE: 20240501
TITLE (ENGLISH): APPARATUSES WITH MOVABLE PANELS TO SUPPORT ELECTRONIC MODULES

TITLE (CHINESE): 具有可移動面板以支撐電子
模組之設備

INVENTOR(S): SU VICTOR, TW

PATENT APPLICANT(S): HEWLETT PACKARD DEVELOPMENT CO LP, US;

PATENT APPL. STANDARD.: HEWLETT PACKARD DEVELOPMENT

PATENT APPL. NORMAL.: HEWLETT PACKARD

ULTIMATE OWNER: HP INC.

ULTIMATE OWNER STANDARD: HP Inc.

LANGUAGE OF FILING: English

LANGUAGE OF PUBL.: Chinese

DOCUMENT TYPE: Patent; (Fulltext)

PATENT INFORMATION: TW I771958 B 20220721

PATENT INFO. TYPE: TWB GRANTED PATENT OR PATENT OF ADDITION [FROM 19500101 ONWARDS]

PATENT STATUS INDICATOR: DEAD

APPLICATION INFO.: TW 2021-110446 A 20210323

PRIORITY INFO.: WO 2020-US44618 20200731

RELATED PATENT INFO.: WO 2022025931 20220203

RELATED DOC. INFO.: WO 2020-US44618 20200731 PCT Application

IPC RECLASSIF.: H05K0007-12 [I,A]; G06F0001-16 [I,A]

CPC CLASSIF.: G06F0001-186; G06F0001-185; G06F0001-181

DISPLAY ALL (STN format)

L7 ANSWER 1 OF 1 TWFULL COPYRIGHT 2025 LNBIS on STN.

AN 1996908 TWFULL EDP 20221013 ED 20221013 UP 20221028 EDTX 20221013

DED 20211129 DUPD 20220423 Full-text

TIEN Direction control device for electric mobility scooter

TIZH 電動代步車之方向控制裝置

IN LIU, CHIH-YUAN

PA SHANG TIAN ENERGY SERVICE CO.,LTD.

PAS SHANG TIAN ENERGY SERVICE

UO SHANG TIAN ENERGY SERVICE

UOS SHANG TIAN ENERGY SERVICE

AGZH 黃世瑋

LAF English

LA Chinese

DT Patent; Utility Model; (Fulltext)

PI TW M620083U U 20211121

PIT TWU REGISTERED UTILITY MODEL OR UTILITY MODEL OF ADDITION [FROM 19500101 ONWARDS]

STI ALIVE

AI TW 2021-208628 20210722

PRAI TW 2021-208628 20210722

IPCR B60R0016-027 [I,A]

ABEN

Machine translation
The direction control device of the electric scooter comprises a controller,
wherein the direction control device of the electric scooter is movably arranged
on the electric scooter and can be used for controlling the steering direction of
the electric scooter.

DETDEN

TECHNICAL SCOPE

[DESC0001] This creation is about the direction control device of an electric scooter.

PREVIOUS TECHNOLOGY

[DESC0002] It is often impossible to move long distances, and people who need assistance to move out of the house will use electric scooters to move. The electric scooter consists of two handlebars located on opposite sides and can be controlled by the faucet steering, and the user can turn the handlebar to drive the electric scooter forward. However, in the past, by continuously rotating the handlebar to drive the scooter, it was more difficult and easy to feel the scab for those with better physical strength to maintain the rotation for a long time, and then the two hands held the second handlebar before pushing or pulling back to

turn, and the range of movement of the hand was not large and easy to squeeze.

[DESC0003] Therefore, it is necessary to provide a new and progressive direction control device for electric scooters to solve the above problems.

CONTENTS OF THE INVENTION

[DESC0004] The main purpose of this creation is to provide a direction control device for electric scooters, which is conducive to holding and controlling forward and backward.

...
CLMEN

[CLM0001] An electric scooter direction control device, the electric scooter comprises a controller, the direction control device of the electric scooter comprising:

A steering wheel for the rotating electric scooter and can be used to control the steering of the electric scooter, the steering wheel comprises a top side and a bottom side of the opposite side of the top side, the bottom side for the group to connect to the electric scooter; and

Two toggles, the two toggles are respectively located in the steering wheel, respectively connected to the controller, wherein one of the toggles may drive the electric scooter forward, the other of the toggles may drive the electric scooter backwards, each of which may be dialed in the direction of the top side or to be dialed in the direction of the bottom side.

[CLM0002] The direction control device of the electric scooter as described in claim 1, wherein the steering wheel defines a first direction, the top side and the bottom side are provided in the first direction, each of which comprises a first segment of the steering wheel, a second segment and a third segment, the second segment extends in the first direction and is laterally connected to claim 1, the third segment is laterally connected to claim 2.

KT

electric scooter; steering wheel; steering light control; steering direction; warning light control; warning sound control; steering shaft; high beam opening; forward push; labor-saving compression; control area; connecting end; remote light control; warning lamp control; local enlarged view; thumb press; oscillating block; steering axle; faucet steering; swing block; power prompt signal; turn direction light; vehicle condition; functional control; speed control; high beam control; deceleration control; request item; light signal; radial extension

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