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There is a thesaurus-like feature in the Patent Assignee Code (/PACO) field.

## SUBJECT COVERAGE

- All patent-relevant areas of science and technology.

## SOURCES

Patent documents are covered from:

Australia	India	Portugal
Austria	Ireland	Romania
Belgium	Israel	Russian Fed.
Brazil	Italy	Singapore
Canada	Japan	Slovakia
China	Rep. of Korea	South Africa
Czech Republic	Luxembourg	Spain
Denmark	Mexico	Sweden
European Pat. Off.	Netherlands	Switzerland
Finland	New Zealand	Taiwan
France	Norway	United Kingdom
F.R. Germany	PCT (WIPO)	United States
Hungary	Philippines	

## FILE DATA

- 60,000-90,000 records and images on a rolling basis
- Updated every three or four days
- Automatic current-awareness searches (SDIs) are run on every update, (1-2 updates per week), weekly, or monthly (every update is the default).

## PRODUCER / SUPPLIER

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United Kingdom  
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E-mail: ts.support.emea@thomsonreuters.com

## 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), abstract (AB, NOV, DESC, TECH, ACTN, USE, ADVANTAGE, USEADVANTAGE, DDWG) and main claim (MCLM)) 1)	None or /BI	S ?LASER? S PROGRAM CODE	USE AB, ADV, ACTN, DETD, DRWD, MCLM, NOV, TI, UADV, USE
Abstract 1)	/AB	S ?FERMENT?/AB	AB
Application Country (WIPO code and text)	/AC	S CA/AC S CANADA/AC	AI
Mechanism of Action 1)	/ACTN	S TEST DETAILS/ACTN	ACTN
Application Date 2)	/AD	S JAN 2003-MAR 2003/AD	AI
Advantage 1)	/ADV	S EXCELLENT QUALITY/ADV	ADV
Agent	/AG	S BASF CORPORATION/AG	AG
Agent Address, Country	/AGA.CNY	S US/AGA.CNY	AGA
Agent Address, City	/AGA.CTY	S MANCHESTER/AGA.CTY	AGA
Agent Address, State	/AGA.ST	S CO/AGA.ST	AGA
Agent Address, Postal Code	/AGA.ZIP	S 01581/AGA.ZIP	AGA
Alerting Abstract, First Section 1)	/ALE	S CONNECTOR/ALE	ALE
Accession Number	/AN	S 2003-0000412/AN	AN
Application Number 3)	/AP	S CA2000-2299904/AP S 2000CA-2299904/AP	AI
Application Type	/APT	S APPLICATION NO/APT	AI
Application Year 2)	/AY	S 2003-2004/AY AND L1	AI
Detailed Description 1)	/DETD	S CATALYST/DETD	DETD
Drawing Description 1)	/DRWD	S SCHEMATIC VIEW/DRWD	DRWD
Designated State (WIPO code and text)	/DS	S BELGIUM/DS S BE/DS	DS
Document Type	/DT (/TC)	S UTILITY MODEL/DT	DT
Thomson Scientific Update Date	/DUPD (/DW)	S 200415/DUPD	DUPD
Entry Date 2)	/ED (/UP)	S ED=MAR 2004	ED
Field Availability	/FA	S DESC/FA AND FDT/FA	FA
Filing Details	/FDT	S DE10063445/FDT	FDT
Filing Details, Publication Country (WIPO code and text)	/FDT.PC	S DE/FDT.PC	FDT
Filing Details, Patent Kind Code	/FDT.PK	S DEA/FDT.PK	FDT
Filing Details, Publication Number	/FDT.PN	S US4743014/FDT.PN	FDT
Filing Details, Type	/FDT.TP	S REISSUE OF/FDT.TP	FDT
File Segment	/FS	S L1 AND DERWENT/FS	FS
International Patent Classification (ICM, ICS)	/IC	S C09K007/IC S C09K007-02/IC S C09K-007-02/IC S D01D005-08?/IC S A01G9/02/IC.F	IC
IPC of Examiner's Field of Search	/IC.F (/RPIC)	S A01K067-027/ICA S B03D103:08/ICI S C04B007:02/ICI(S)C04B028-14/ICI	EXF
IPC, Additional	/ICA	S A01K067-027/ICA	ICA
IPC, Index (Complementary)	/ICI	S B03D103:08/ICI	ICI
IPC, Main	/ICM	S C09K007-02/ICM S C09K-007-02/ICM(P)US/PC	IC, ICM
IPC, Secondary	/ICS	S A01B033-16/ICS	IC, ICS
Inventor	/IN (/AU)	S HAHLE ?/IN	IN

- 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.
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**SEARCH AND DISPLAY FIELDS (continued)**

Search Field Name	Search Code	Search Examples	Display Code
Inventor, Country	/IN.CNY	S NO/IN.CNY	IN
Inventor Address	/INA	S INDIANA/INA	INFN
Inventor Address, Country (code and text)	/INA.CNY	S AUSTRALIA/INA.CNY	INFN
Inventor Address, City	/INA.CTY	S MANCHESTER/INA.CTY	INFN
Inventor Address, State	/INA.ST	S OH/INA.ST	INFN
Inventor Address, Postal Code	/INA.ZIP	S D-77654/INA.ZIP	INFN
Inventor Full Name	/INFN	S R DALE/INFN	INFN
Inventor Full Name, First Name	/INFN.FNM	S BERND HELMUT/INFN.FNM	INFN
Inventor Full Name, Surname	/INFN.SNM	S DOBBERSTEIN/INFN.SNM	INFN
Language (ISO code and text)	/LA	S GERMAN/LA S DE/LA	LA
Main Claim 1)	/MCLM	S METHOD OF MANAGING/MCLM	MCLM
IPC Main Group Range Searchable 2)	/MGR	S C09K/ICM(T)18-20/MGR	not displayed
National Classification	/NCL	S 002002140/NCL	EXF
National Classification of Examiner's Field of Search	/NCL.F	S 101212/NCL.F	
Novelty 1)	/NOV	S OUTPUT SIGNAL/NOV	NOV
Patent Assignee 4)	/PA (/CS)	S SHELL CANADA/PA	PA
Patent Assignee Code 5)	/PACO	S SHEL/PACO	PA
Patent Country (WIPO code and text)	/PC	S GB/PC AND 2002/AY S UNITED KINGDOM/PC	PI
Patent Country Basic	/PC.B	S GB/PC.B AND JUNE 2003/PD	PI.B
Cited Patent Country (code and text)	/PC.D (/RPC)	S BE/PC.D S BELGIUM/PC.D	REP
Cited Patent Country (by examiner)	/PC.DX	S CANADA/PC.DX	REP
Patent Country Underlying Publication (WIPO code and text)	/PC.P	S DE/PC.P	PI
Publication Date 2)	/PD	S PD=JUNE 1, 2003	PI
Number of Pages 2)	/PGN	S PGN=5	PI
Patent Kind Code	/PK	S FRA1/PK	PI
Patent Kind Code Basic	/PK.B	S EPA1/PK.B	PI.B
Cited Patent Kind Code	/PK.D (/RPK)	S AUB1/PK.D	PI
Cited Patent Kind Code (by examiner)	/PK.DX	S AUB/PK.DX	PI
Patent Kind Code Underlying Publication	/PK.P	S AUA2/PK.P	PI
Patent Number 3)	/PN	S US2001002629/PN	PI
Patent Number Basic 3)	/PN.B	S DE10002311/PN.B	PI.B
Cited Patent Number	/PN.D (/RPN)	S DD237778/PN.D	REP
Cited Patent Number (by Examiner)	/PN.DX	S US1007656/PN.DX	REP
Patent Number Underlying Publication 3)	/PN.P	S DE10066166/PN.P	PI
Priority Country (WIPO code and text)	/PRC	S AUSTRIA/PRC	PRAI
Priority Date 2)	/PRD	S PRD=MAY 10, 2000	PRAI
Priority Date First 2)	/PRDF	S 20010111/PRDF	PRAI
Priority Number 3)	/PRN	S CA1997-2212810/PRN	PRAI
Priority Year 2)	/PRY	S 1997-1998/PRY	PRAI
Priority Year First 2)	/PRYF	S PRYF=1999	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.
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- 4) Search with implied (S) proximity is available in this field.
- 5) A thesaurus is available in this field.

## SEARCH AND DISPLAY FIELDS (continued)

Search Field Name	Search Code	Search Examples	Display Code
Patent Publication Type	/PT	S NCE/PT	PI
Publication Year	2) /PY	S PY<2003	PI
Reference Count	2) /REC	S REC<4	RE, REC
Reference (Literature)	(/RE.CNT)		
Reference (Literature) cited by examiner	/REN	S (VETERINARY(W)RECORD)/REN	REN
Reference Patent Information	/REN.X	S ANNALES/REN.X	REN
IPC Subgroup Range Searchable	/RPN	S FR1230375/RPN	REP
Summary Language (code and text)	/SGR	S F01B-007/IC(T)10000-12000/SGR	not displayed
Technology Focus	/SL	S FRENCH/SL	SL
Title	/TECH	S CHEMICAL COMPOSITION/TECH	TECH
Use/Advantage	1) /TI	S ?FOLD?/TI	TI
Use Section	1) /UADV	S FACILITATE/UADV	UADV
	1) /USE	S TELEPHONE APPARATUS/USE	USE

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## SUPER SEARCH FIELDS 1)

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Application Number Group	/APPS	/AP, /PRN	S 1989GB-0219641/APPS	ADT, AI, PRAI
International Patent Classification	2) /IPC	/IC, /ICA, /ICI, /ICM, /ICS	S GB1989-219641/APPS	IC, ICA, ICI
Patent Countries	/PCS	/PC, /DS	S C09K007-02/IPC	ICM, ICS
Patent Number Group	/PATS	/PN, /FDT	S ES/PCS	DS, PI
			S SPAIN/PCS	
			S US2001007651/PATS	PI, FDT

- 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.
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## PATENT ASSIGNEE CODE DICTIONARY

The list of Thomson Reuters (Scientific) Ltd. assigned company codes for patent assignees matched with company names is available in field /PACO. This feature allows you to easily and comprehensively identify the company names associated with a code, or to identify the code(s) used for a company name. Expanding in field /PACO (Patent Assignee Code) provides the alphabetical list of codes, single words and the full name from the company field (/PA). Each code is listed with its frequency in field /PACO and with the number of associated terms (AT) in the dictionary.

Field	Relationship Code	Content	Example
/PACO	ALL DEF	All patent assignee code(s) defined for the name All name definitions for the given code	E BAYER+ALL/PACO E FARB+DEF/PACO

**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 IN'. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all 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 WPIFV file:

- 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 AB
ACTN	Mechanism of Action	D ACTN
ADV	Advantage	D ADV
AG	Agent	D AG
AGA	Agent Address	D AGA
AI (AP) 1)	Application Information	D AI
ALE	Alerting Abstract, First Section	
AN	Accession Number	D AN
APPS	Application Number Group	D APPS
DETD	Detailed Description	D DETD
DRWD	Drawing Description	D DRWD
DS 2)	Designated State	D DS
DT (TC) 2)	Document Type	D DT
ED (UP)	Entry Date	D ED
EXF	Examiner's Field of Search	D EXF 5,10
FA	Field Availability	D FA
FDT	Filing Details	D FDT
FS	File Segment	D FS
GI	Graphic Information	D GI
GIS 2)	Graphic Information Size	D GIS
IC	International Patent Classification (ICM, ICS)	D IC
ICA	IPC, Additional	D ICA
ICI	IPC, Index (Complementary)	D ICI
ICM	IPC, Main	
ICS	IPC, Secondary	
IN (AU)	Inventor	D IN
INFN	Inventor Full Name	D INFN
IPC	International Patent Classifications (ICM, ICS, ICA, ICI)	
MCLM	Main Claim	
NCL	National Classification	
NOV	Novelty	
PA (CS)	Patent Assignee	D 1-10 TI PA
PATS	Patent Number Group	D PATS
PI (PN) 1)	Patent Information	
PI.B (PN.B) 1)	Patent Information Basi	
PRAI (PRN) 1)	Priority Information	
RE	Reference	D RE
REC 2)	Reference Count	
(RE.CNT)		
REN	Reference (Literature)	
REP (RPN)	Reference Patent Information	D REP
SL	Summary Language	

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- 2) Custom display only.

**DISPLAY AND PRINT FORMATS (continued)**

<b>Format</b>	<b>Definition</b>	<b>Examples</b>
TECH TI UADV USE	Technology Focus Title Use/Advantage Use Section	D TI
ABS	AN, AB, NOV, ALE, DETD, TECH, ACTN, USE, ADV, UADV, DRWD, MCLM	D ABS
ALL (FULL) 1)	AN, TI, AG, AGA, IN, INFN, PA, PI, AI, FDT, PRAI, RE, IPC, EXF, SL, AB, NOV, ALE, DETD, TECH, ACTN, USE, ADV, UADV, DRWD, MCLM, FA	D ALL
ALLG (FULLG) 1,3)	AN, TI, AG, AGA, IN, INFN, PA, PI, AI, FDT, PRAI, RE, IPC, EXF, GI, SL, AB, NOV, ALE, DETD, TECH, ACTN, USE, ADV, UADV, DRWD, MCLM, FA	D ALLG
IALL 1)	ALL, indented with text labels	D IALL
IALLG 1,3)	ALLG, indented with text labels	D IALLG
BIB 1)	AN, TI, AG, AGA, IN, INFN, PA, PI, AI, FDT, PRAI	D BIB
IBIB 1)	BIB, indented with text labels	
BRIEF	AN, TI, PA, AB, NOV, ALE, DETD, TECH, ACTN, USE, ADV, UADV, DRWD	D BRIEF
BRIEFG	AN, TI, PA, GI, AB, NOV, ALE, DETD, TECH, ACTN, USE, ADV, UADV, DRWD	
IND	AN, IPC, NCL, EXF	
MAX 1)	AN, TI, AG, AGA, IN, INFN, PA, PI, AI, FDT, PRAI, RE, IPC, EXF, GIS, SL, AB, NOV, ALE, DETD, TECH, ACTN, USE, ADV, UADV, DRWD, MCLM, FS, FA, ED, UP	D MAX
MAXG 1,3)	AN, TI, AG, AGA, IN, INFN, PA, PI, AI, FDT, PRAI, RE, IPC, EXF, GIS USE, ADV, UADV, DRWD, MCLM, FS, FA, ED, UP, TI	D MAXG 1-2
SCAN 4)	TI	
STD 1)	AN, TI, AG, AGA, IN, INFN, PA, PI, AI, FDT, PRAI, IPC (STD is default)	D STD
ISTD 1)	STD, indented with text labels	
TRIAL (SAMPLE, SAM, FREE)	AN, TI, IPC	D ISTD
HIT	Hit-term(s) and field(s)	D HIT
KWIC	Up to 50 words before and after hit-term(s) (KeyWord-In-Context)	D KWIC 1-10
OCC	Number of occurrences of hit-term(s) and field(s) in which they occur	D OCC

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- 2) Custom display only.
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- 4) SCAN must be specified on the command line, e.g., D SCAN or DISPLAY SCAN.

**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).

## SELECT, ANALYZE, AND SORT CODES (continued)

Definition	Code	Analyze/ Select 1)	Sort
Abstract	AB	x	-
Application Country	AC	x	A
Mechanism of Action	ACTN	x	-
Application Date	AD	x	N
Advantage	ADV	x	-
Agent	AG	x	A
Agent Address	AGA	x	A
Agent Address, Country	AGA.CNY	x	A
Agent Address, City	AGA.CTY	x	A
Agent Address, State	AGA.ST	x	A
Agent Address, Postal Code	AGA.ZIP	x	A
Application Information	AI (AP)	x	-
Alerting Abstract, First Section	ALE	x	-
Accession Number	AN	x	A
Application Number Group	APPS	x 3)	A
Application Type	APT	x	-
Application Year	AY	x	N
Detailed Description	DETD	x	-
Drawing Description	DRWD	x	-
Designated State	DS	x	-
Document Type	DT (TC)	x	-
Thomson Scientific Update Date	DUPD	x	-
Entry Date	ED (UP)	x	N
Examiner's Field of Search	EXF	x	-
Field Availability	FA	x	-
Filing Details	FDT	x	-
Filing Details, Publication Country	FDT.PC	x	A
Filing Details, Patent Kind Code	FDT.PK	x	A
Filing Details, Publication Number	FDT.PN	x	A
Filing Details, Type	FDT.TP	x	A
Graphic Image Size	GIS	x	-
International Patent Classification (ICM, ICS)	IC	x	A
IPC, Additional (Supplementary)	ICA	x	-
IPC, Main	ICM	x	A
IPC, Secondary	ICS	x	-
IPC of Examiner's Field of Search	IC.F	x	-
Inventor	IN (AU)	x	A
Inventor, Country	IN.CNY	x 2)	A
Inventor Address	INA	x	A
Inventor Address, Country	INA.CNY	x	A
Inventor Address, City	INA.CTY	x	A
Inventor Address, State	INA.ST	x	A
Inventor Address, Postal Code	INA.ZIP	x	A
Inventor Full Name	INFN	x	A
Inventor Full Name, First Name	INFN.FNM	x	A
Inventor Full Name, Surname	INFN.SNM	x	A
International Patent Classification (ICM, ICS, ICA, ICI)	IPC	x	A
IPC, Index (Complementary)	ICI	x	-
Language	LA	x	-
Main Claim	MCLM	x	-
National Classification of Examiner's Field of Search	NCL.F	x	-
Novelty	NOV	x	-
Occurrence Count of Hit Terms	OCC	-	N
Patent Assignee	PA (CS)	x	A
Patent Number Group	PATS	x	-

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 T1.

2) SELECT HIT or ANALYZE HIT are not valid with this field.

3) Selects or analyzes application and priority numbers with /APPS appended to the terms created by SELECT.

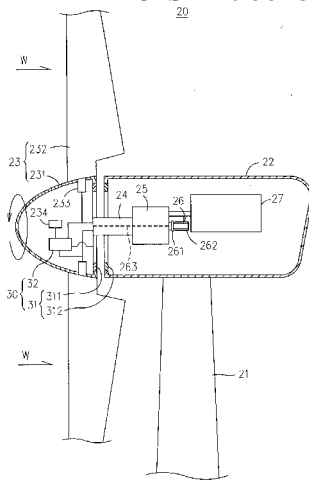
**SELECT, ANALYZE, AND SORT CODES (continued)**

Definition	Code	Analyze/ Select 1)	Sort
Patent Country	PC	x	A
Patent Country Basic	PC.B	x	A
Cited Patent Number	PC.D (RPC)	x	-
Cited Patent Country (by examiner)	PC.DX	x	-
Patent Country Underlying Publication	PC.P	x	A
Patent Countries	PCS	x 4)	-
Publication Date	PD	x	N
Patent Information	PI (PN)	x 5)	A
Patent Information Basic	PI.B	x 6)	A
Patent Kind Code	PK	x	A
Patent Kind Code Basic	PK.B	x	A
Cited Patent Kind Code	PK.D (RPK)	x	-
Cited Patent Kind Code (by examiner)	PK.DX	x	-
Patent Kind Code Underlying Publication	PK.P	x	A
Patent Number Basic	PN.B	x	A
Cited Patent Number	PN.D (RPN)	x	-
Cited Patent Number (by examiner)	PN.DX	x	-
Patent Number Underlying Publication	PN.P	x	A
Priority Information	PRAI (PRN)	x	A
Priority Country	PRC	x	A
Priority Date	PRD	x	N
Priority Date First	PRDF	x	N
Priority Year	PRY	x	N
Priority Year First	PRYF	x	N
Patent Publication Type	PT	x	-
Publication Year	PY	x	N
Reference Count	REC (RE.CNT)	x	N
Reference (Literature)	REN	x	-
Reference (Literature) cited by examiner	REN.X	x	-
Reference Patent Information	REP	x 7)	-
Subclass Group	SCG	x 8)	-
Subclass Group Additional	SCGA	x 9)	-
Subclass Group Main	SCGM	x 10)	-
Subclass Group Secondary	SCGS	x 11)	-
Subclass	SCL	x 8)	-
Subclass Additional	SCLA	x 9)	-
Subclass Main	SCLM	x 10)	-
Subclass Secondary	SCLS	x 11)	-
Summary Language	SL	x	A
Technology Focus	TECH	x	-
Title	TI	x (default)	A
Use/Advantage	UADV	x	-
Update Date	UP	x	N
Use Section	USE	x	-

- 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.
- 4) Selects or analyzes patent countries and designated states with /PCS appended to the terms created by SELECT.
- 5) Selects or analyzes patent numbers with /PN appended to the terms created by SELECT.
- 6) Selects or analyzes basic patent number with /PN.B appended to the terms created by SELECT.
- 7) Selects or analyzes cited patent number with /PN.D appended to the terms created by SELECT.
- 8) Appends /IC to the terms created by SELECT.
- 9) Appends /ICA to the terms created by SELECT.
- 10) Appends /ICM to the terms created by SELECT.
- 11) Appends /ICS to the terms created by SELECT.

**SAMPLE RECORDS  
DISPLAY MAXG**

AN 2008-1428590 WPIFV  
 TI Wind turbine with self-contained power system  
 AG REED SMITH LLP  
 Suite 1400, 3110 Fairview Park Drive , Falls Church, VA 22042 US  
 IN GUEY Z (TW); CHANG Y (TW); WU C (TW)  
 INFN Guey Zen-Jey , Hsinchu City TW  
 Chang Yun-Yuan , Taipei City TW  
 Wu Ching-Huei , Hsinchu City TW  
 PA (INTE-N) IND TECHNOLOGY RES INST  
 PI US 2008143110 A1 20080619 English Basic  
 AI US 2007-889493 20070814  
 PRAI TW 2006-147400 20061218  
 ICM F03D009-00  
 ICS F03D009-00; F03D009-02; H02P009-04  
 NCL NCLM: 290044000  
 NCLS: 290043000; 290053000; 290054000; 290055000



SL English  
 AB AUTHOR ABSTRACT

A wind turbine with a self-contained power system is disclosed. The self-contained power system comprises an auxiliary generator with a winding disposed on the rotor side while the magnetic poles of the auxiliary generator are disposed at components moving relatively to the rotation of the rotor. Thereby, a back electromotive force (emf) is generated in the winding due to the relative motion of the winding with respect to the magnetic poles as the rotor is rotating, and consequently the self-contained power system generates electricity to provide the power for driving the rotor to rotate. Therefore, the ability of the wind turbine to operate independently is enhanced since the amount of back-up power supply required is reduced and the structure of the wind turbine is simplified. Therefore the cost of the wind turbine is reduced, and the system reliability is increased.

MCLM A wind turbine with a self-contained power system, comprising: a nacelle comprising a variable-speed generator directly or indirectly coupled to a hub, a power converter and a wind turbine controller regulating the variable-speed generator using the power converter; a rotor comprising the hub and a plurality of blades, the rotor being driven to rotate and move relatively to the nacelle; and an auxiliary generator disposed on the interface between the rotor side and the nacelle side so as to provide the rotor with sufficient power, the auxiliary generator further comprising: a winding disposed on the rotor side; and an even number of magnetic poles, disposed at a mechanism which is rotating relatively to the rotor; whereby, a back electromotive force (emf) is generated in the winding due to the relative motion of the rotor with respect to the nacelle as the rotor is rotating.

FS Original  
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