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STN Database Summary Sheet

The **IFIPAT File (IFI Patent Database)** contains all front page and bibliographic data and the text of the abstract and/or all claims from U.S. utility patents, reissue patents, defensive publications, expired patents, reinstated patents, and patents with adverse decision in interference, disclaimer/dedication, reexamination request, reissue request, or certificates of correction.

All chemical and chemically related patents are covered from 1950 to the present, and mechanical and electrical patents from 1963 to the present. Design patents are covered from 1980 to the present. In addition, US applications published since March 15, 2001, are also included.

The records in this file contain standard bibliographic and patent data; USPTO Classifications (original and cross references), and issue dates. Front page patent abstracts, application data, priority data, and International Patent Classification (IPC) codes are available, 1971-present. The Official Gazette text is available for chemical patents (1950-present), and for all patents (1965-1970 and 1978-present). CA references, foreign equivalents, and CAS Registry Numbers[®] are included for many of the chemical patents.

Subject Coverage

US patents in the following subject areas:

- Aerospace and Aeronautical Engineering
- Agricultural Engineering
- Biomedical Technology
- Chemical Engineering
- Chemistry
- Civil Engineering
- Electrical and Electronics Engineering
- Electromagnetic Technology
- Mechanical Engineering
- Medicine
- Nuclear Science
- Telecommunications

Sources

United States patents issued by the U.S. Patent and Trademark Office since 1950 and announced in the U.S. Patent Office Official Gazette

File Data

- 1950 to the present, US applications from 2001 to the present
- More than 6.6 million records (7/08)
- Updated twice a week
- Reloaded annually
- Automatic current-awareness searches (SDIs) may be run every update, weekly, or monthly (weekly is the default)

User Aids

- Assignee List (available from the producer)
- U.S. Patent Office Manual of Classifications (available from the producer)
- Patent Searching on STN - A Quick Reference Guide
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

Database Producer

IFI Patent Intelligence
A Wolters Kluwer business
3202 Kirkwood Highway, Suite 203
Wilmington, DE 19808
Phone: (302) 998-0478
(800) 331-4955
Fax: (302) 998-0733
E-mail: info@ificlaims.com

In North America
CAS
STN North America
P.O. Box 3012
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Care:
Phone: 800-753-4227 (North America)
614-447-3700 (worldwide)
Fax: 614-447-3751
E-mail: help@cas.org
Internet: www.cas.org

In Europe
FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
E-mail: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.de

In Japan
JAICI (Japan Association for
International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-3600
E-mail: support@jaici.or.jp (Technical Service)
customer@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp

IFIPAT

Search and Display Field Codes

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

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the title (TI), abstract (AB), patent claims (ECLM, ACLM), government interest statement (GOVI), botanical information (BOTI), graphics information (GI), and note (NTE) fields, as well as CAS Registry Numbers (RN))	None (or /BI)	S ACETAL? S GOLF(A)CLUB AND DESIGN S SOFTWARE/BI S ELEVATION VIEW# S ROSA HYBRIDA S GRANT NUMBER S INDEXED FROM APPLICATION S 50-02-2 S ?POLAR?	AB, ACLM, BOTI, ECLM, GI, NTE, RN, TI
Abstract *	/AB	S MODEL? S ?ACTION?/AB	AB
Accession Number (1)	/AN	S 2758301/AN	AN
Agent (Legal Representative)	/AG (or /LREP)	S SPENCER & FRANK/AG	AG
Application Country (2)	/AC	S US/AC AND 2000/AY S WO/AC	AI
Application Date (1,2)	/AD	S 19970603/AD S JUN 3 1997/AD	AI
Application Number (2,3)	/AP	S US1996-609476/AP S 1996US-609476/AP S WO1991-AU272/AP	AI
Application Year (1,2)	/AY	S 1999/AY	AI
Art Unit (1)	/ARTU	S 123/ARTU	ARTU
Disclaimer Date (1)	/DCD	S DCD>=20020100	DCD
Document Type (code and text)	/DT (or /TC)	S REISSUE/DT S RR/DT S PATENT APPLICATION?/DT	DT
Entry Date (1)	/ED	S L1 AND ED>=20020700	Not displayed
Examiner Name	/EXNAM	S ROBERTS?/EXNAM	EXNAM
Examiner's Field of Search	/EXF	S 430123000/EXF	EXF
Expiration Date (1)	/XPD	S L1 AND XPD>=19980100	XPD
Expiration Year (1)	/XPY	S L1 AND XPY>=1999	XPD
Family Member Country	/FC	S DE/FC	FI
Family Member Date (1)	/FD	S 20000104/FD	FI
Family Member Number (3)	/FN	S US30870/FN S US--30870/FN	FI
Family Member Year (1)	/FY	S FY>1998	FI
Field Availability	/FA	S L1 AND CLM/FA S AB/FA AND L7	Not displayed
File Segment (code and text)	/FS	S CHEMICAL/FS S C/FS S (C AND OS)/FS S L1 AND APPLICATION/FS S (CE AND GRANTED)/FS	FS
International Patent Classification (IPC) (includes Main and Secondary IPCs)	/IC	S A24B/IC	IC, ICM, ICS
Inventor (includes location)	/IN (or /AU)	S FLINT?/IN S FLINT ALAN G/IN S (GREEN, A? (S) GB)/IN	IN
Inventor in Nonstandard Format (includes location)	/INF	S CREETH/INF S (GLASSER (S) VA)/INF	INF
IPC, Initial	/IPCI	S A61K0009-14/IPCI	IPCI
IPC, Main	/ICM	S A01N001/ICM S A01N-001/02/ICM	IC, ICM

Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
IPC, Main Group, Range-Searchable (1)	/MGR	S 10-20/MGR (S) C07C/IC	IC, ICM, ICS
IPC, Reclassified	/IPCR	S A61K0009-14/IPCR	IPCR
IPC, Secondary	/ICS	S A01G027/ICS	IC, ICS
IPC, Subgroup, Range-Searchable (1)	/SGR	S SGR=>30000(S)C01B031/IC	IC, ICM, ICS
Issue National Patent Classification Code	/INCL	S 424093100/INCL	INCL
Issue Main National Patent Classification Code	/INCLM	S 424234100/INCLM	INCLM, INCL
Issue Secondary National Patent Classification Code	/INCLS	S 424200100/INCLS	INCLS, INCL
Language (code and text)	/LA	S EN/LA AND ABBOTT?/EXNAM	Not displayed
Main National Patent Classification Code	/NCLM	S 003001000/NCLM	NCL, NCLM
National Patent Classification Code (includes main and secondary NCLs)	/NCL	S 002002500/NCL	NCL, NCLM, NCLS
National Patent Classification, Range-Searchable (1)	/NCLR	S 2002000-20640000/NCLR	NCL, NCLM, NCLS
Note	/NTE	S APPLICATION/NTE	NTE
Number of Claims (1)	/CLMN	S 10-13/CLMN	CLMN
Number of Patents Citing This Patent	/PNC.G	S PNC.G>5	PI
Other Source	/OS	S CA/OS	OS
Patent Assignee (4) (includes patent assignee code)	/PA (or /CS)	S ABBOTT?/PA S MERRELL DOW/PA S 152/PA	PA
Patent Assignee in Nonstandard Format (includes location)	/PAF	S LEINER/PAF S NUTRITIONAL PRODUCTS/PAF S (HEWLETT-PACKARD(S)CA)/PAF	PAF
Patent Assignee (Probable)	/PPA	S ABBOTT/PPA	PPA
Patent Country (2)	/PC	S US/PC AND PY>1999 S WO/PC	PI
Patent Kind Code	/PK	S A1/PK	PI
Patent Number (2,3)	/PN	S US30843/PN S US--30843/PN S WO9200563/PN S US2002026659/PN	PI
Priority Country	/PRC	S DE/PRC	PRAI
Priority Date (1)	/PRD	S 19950109/PRD	PRAI
Priority Number (3,5) (includes provisionals)	/PRN	S DE1998-29801192/PRN S US2000-142974P/PRN	PRAI
Priority Year (1)	/PRY	S 1995-2000/PRY	PRAI
Publication Date (1)	/PD	S 20020702/PD	PI
Publication Year (1)	/PY	S 2001-2002/PY	PI
Reference Non-Patent Information	/REN	S XEROGRAPHY/REN	REN
Reference Patent Classification	/RPCL	S D01101000/RPCL	REP
Reference Patent Country	/RPC	S AU/RPC	REP
Reference Patent Inventor	/RPIN	S PETROPOULOS?/RPIN	REP
Reference Patent Number (6)	/RPN	S AT24742/RPN	REP
Reference Patent Publication Date (1)	/RPD	S JUL 1990/RPD	REP
Reference Patent Publication Year (1)	/RPY	S 1995-1998/RPY	REP
Related Application Country	/RLC	S US/RLC	RLI
Related Application Date (1)	/RLD	S 19790407/RLD	RLI
Related Application Number (3)	/RLN	S US1956-626211/RLN S 1956US-0626211/RLN	RLI

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Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Related Application Type (code and text)	/RLT	S CIP/RLT	RLI
Related Application Year (1)	/RLY	S CONTINUATION-IN-PART/RLT S 1988-1990/RLY	RLI
Related Patent Number (3)	/RLPN	S US3753535/RLPN	RLI
Related Publication Indicator (code and text)	/RLP	S ABD/RLP S ABANDONED/RLP	RLI
Secondary National Patent Classification Code	/NCLS	S 021054000R/NCLS	NCL, NCLS
Term of Patent (1)	/PTERM	S 13-15/PTERM	PTERM
Title	/TI	S EPOXY TAPE/TI	TI
Update Date (1)	/UP	S L1 AND UP>20020000	Not displayed

(1) Numeric search field that may be searched with numeric operators or ranges.

(2) Data for PCT applications have been available in this field since late 1993; prior to 1993, PCT information is included in the abstracts.

(3) Either STN format or Derwent format may be used.

(4) Search with implied (S) proximity is available in this field.

(5) U.S. Provisional Priority Applications are searched only with the P appended.

(6) Only non-US patent numbers are searchable 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 crossfile 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
Patent Application Group (1)	/APPS	/AP, /PRN, /RLN	S US56-626454/APPS S 56US-0626454/APPS	AI, PRAI, RLI
Patent Assignee Group	/PASS	/PA, /PAF, /PPA	S ABBOTT/PASS	PASS
Patent Countries	/PCS	/FC, /PC, /RPC	S DE/PCS	FI, PI, REP
Patent Numbers Group (1)	/PATS	/FN, /PN, /RPN	S US102601/PATS S US0102601/PATS	FI, PI, REP

(1) Either STN format or Derwent format may be used.

DISPLAY and PRINT Formats

Any combination of display formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L3 1-10 TI,AB or D L3 1-10 TI AB. The fields are displayed in the order requested.

Hit-term highlighting is available in all fields except AI, CDAT, FI, PI, PRAI, REP, RLI, and XPD. Highlighting is set ON by default and must be ON when SEARCH is performed in order to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB	Abstract	D 1-3 AB
AG (LREP)	Agent (Legal Representative)	D 4 9 AG
AI (AP) (1)	Application Information	D L3 5-7 AI
AN (2)	Accession Number	D L3 AN 1-5
ARTU (2)	Art Unit	D ARTU L8
BOTI	Botanical Information	D BOTI
CDAT	Correction Date	D CDAT
CLMI	Independent Claim Numbers	D CLMI
CLMN	Number of Claims	D 4 CLMN EXF
DCD	Disclaimer Date	D L3 6,8 DCD
DT (TC)	Document Type	D 1-4 DT
ECLM	Exemplary Claim	D L9 ECLM 3-6
ED	Entry Date	D ED
EXF (2)	Examiner's Field of Search	D EXF 2,6-10
EXNAM	Examiner Name	D 7 L3 EXNAM
FI (FN) (1)	Family Information	D 1-5, 10 FI
FS	File Segment	D 1,5,8 FS
GI	Graphics Information	D GI 4-8,11
GOVI	Government Interest	D L14 GOVI
ICM (2)	IPC, Main	D 1-4 L2 ICM
ICS (2)	IPC, Secondary	D 5-6 L1 ICS
IN (AU)	Inventor (INF, IN)	D L4 1-6 IN
INCLM	Issue Main National Patent Classification Code	D INCLM
INCLS	Issue Secondary National Patent Classification Code	D INCLS
IPC.HIT	HIT IPC codes	D IPC.HIT
IPC.UNIQ	Unique IPC codes in record	D IPC.UNIQ
IPCI	IPC Initial	IPCI
IPCR	IPC Reclassified	IPCR
MFN (2,3)	Microfilm Frame Number (includes MRN)	D MFN
MRN (2,3)	Microfilm Reel Number (includes MFN)	D MRN
NCLM (2)	Main National Patent Classification Code	D L5 1-4 NCLM
NCLS (2)	Secondary National Patent Classification Code	D 1,5 L4 NCLS
NTE	Note	D NTE
OS	Other Source	D 2,5 OS
PA (CS)	Patent Assignee (PAF, PA)	D L2 1-3 PA
PARN	Parent Case Data	D 1-3 PARN
PI (PN) (1)	Patent Information	D 1,5,10 PI
PPA	Patent Assignee (Probable)	D PPA
PRAI (PRN) (1)	Priority Information	D PRAI
PTERM	Term of Patent	D PTERM 5
REN	Reference Non-Patent Information	D 2 7 REN
REP (RPN) (1)	Reference Patent Information	D 6,12 L1 REP
RLI (RLN) (1)	Related Application Information	D 1-2 RLI
RN (2)	CAS Registry Number	D 1-5 RN
TI (2)	Title	D TI
XPD	Expiration Date	D XPD
ABS	AB, NTE, CLMN, GI	D ABS
ALL (1,3)	AN, TI, INF, IN, PAF, PA, PPA, EXNAM, AG, PI, AI, PTERM, DCD, XPD, RLI, PRAI, FI, DT, CDAT, FS, OS, GOVI, MRN, MFN, AB, NTE, BOTI, CLMN, GI, ECLM, ACLM, REP, REN, NCL (NCLM, NCLS), IC (ICM, ICS), EXF, ARTU, RN	D 3 ALL
APPS (1)	AI, RLI, PRAI	D APPS
BIB (1,3)	AN, TI, INF, IN, PAF, PA, PPA, EXNAM, AG, PI, AI, PTERM, DCD, XPD, RLI, PRAI, FI, DT, CDAT, FS, OS, GOVI, MRN, MFN, NTE, BOTI, CLMN, GI	D 1,4-6 BIB
CBIB (1,3)	AN, Compressed Bibliographic Data	D CBIB

IFIPAT**DISPLAY and PRINT Formats (cont'd)**

Format	Content	Examples
CLM DALL (1,3) IABS (1,3) IALL (1,3) IBIB (1,3) IC (IPC) (2) ICLM IIND (2) INCL IND (2) IRE (1) ISBIB (1,3) ISTD (1,3) ISTDN (1,3) ITRIAL (1) NCL (2) PASS PATS (1) RE (1) SBIB (1,3) STD (1,3) STDN (1,3) TRIAL (2) (TRI, SAM, FREE) FP (1) FPALL (1) FPBIB (1) FPSTDN (1)	Claims (ECLM, ACLM) ALL, delimited for post processing AB with a text label and CLMN, GI indented with text labels ALL, indented with text labels BIB, indented with text labels International Patent Classification (IPC) (ICM, ICS) CLM with text labels IND, indented with text labels Issue National Patent Classification Code (INCLM, INCLS) NCL (NCLM, NCLS), IC (ICM, ICS), EXF, ARTU, RN RE, indented with text labels SBIB, indented with text labels STD, indented with text labels STDN, indented with text labels TRIAL, indented with text labels National Patent Classification Code (NCLM, NCLS) PA, PAF, PPA PI, RLI, FI, REP REP, REN AN, TI, IN, PA, PPA, PI, AI, RLI, PRAI, FI, DT, CDAT, FS, OS, BOTI, MRN, MFN, CLMN, GI (SBIB is the default) AN, TI, IN, PA, PPA, PI, AI, RLI, PRAI, FI, DT, CDAT, FS, OS, MRN, MFN, NCL (NCLM, NCLS), IPC (ICM, ICS, IPCI, IPCR) AN, TI, IN, PA, PPA, PI, AI, RLI, PRAI, FI, DT, FS, CDAT, OS, MRN, MFN, AB, NTE, BOTI, CLMN, GI, ECLM, NCL (NCLM, NCLS), IPC (ICM, ICS, IPCI, IPCR) AN, TI, CLMN, NCL (NCLM, NCLS), IPC (ICM, ICS, IPCI, IPCR), RN Front page format for PI, TI, INF, PAF, AI, PTERM, DCD, RLI, PRAI, REP, REN, EXNAM, AG, GOVI, AB, CLMN, GI Front page format for PI, TI, INF, PAF, AI, PTERM, DCD, RLI, PRAI, IPC (ICM, ICS, IPCI, IPCR), NCL (NCLM, NCLS), EXF, REP, REN, EXNAM, AG, GOVI, AB, CLMN, GI, ECLM, ACLM Front page format for PI, TI, INF, PAF, AI, PTERM, DCD, RLI, PRAI, EXNAM, AG, GOVI, CLMN, GI Front page format for PI, TI, INF, PAF, AI, PTERM, DCD, RLI, PRAI, REP, REN, EXNAM, AG, GOVI, AB, CLMN, GI, ECLM, NCL (NCLM, NCLS), IPC (ICM, ICS, IPCI, IPCR)	D CLM D DALL D 5 IABS D IALL 5 D CLM IBIB D 3,5,7 IC D ICLM TI 4 D 1,6 IIND IRE D INCL D L2 1-20 IND D 2-5 IRE D L3 ISBIB D ISTD D ISTDN D TRIAL D NCL D PASS D PATS D RE 8,11 D SBIB 3 L2 D STD D L2 STDN 1-4 D TRIAL TOTAL D L3 FP 12 D 1 4 FPALL D FPBIB 6 D FPSTDN L8
HIT KWIC OCC (2)	Fields containing hit terms Hit terms with 20 words on either side (KeyWord-In-Context) Number of occurrences of hit terms and fields in which they occur	D HIT D KWIC NOH D OCC

(1) By default, patent, 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) No online display fee for this format.

(3) MRN and MFN data available from 1979 to the present.

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field 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 alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT(1)	SORT
Abstract	AB	Y (2)	N
Accession Number	AN	Y	N
Agent (Legal Representative)	AG	Y (3)	Y
Application Country	AC	Y (4)	Y
Application Date	AD	Y (4)	Y
Application Information	AI	Y (4,5,6)	Y
Application Number	AP	Y (4,6)	Y
Application Number Group	APPS	Y (4,6,7)	N
Application Year	AY	Y (4)	N
Art Unit	ARTU	N	Y
Author (Inventor)	AU	Y	Y
Botanical Information	BOTI	Y (2)	N
CAS Registry Number	RN	Y	N
Corporate Source (Patent Assignee)	CS	Y	Y
Disclaimer Date	DCD	Y	Y
Document Type	DT	Y	Y
Examiner Name	EXNAM	Y	N
Examiner's Field of Search	EXF	Y	Y
Expiration Date	XPD	Y (4)	Y
Expiration Year	XPY	Y (4)	Y
Family Member Country	FC	Y (4)	N
Family Member Date	FD	Y (4)	N
Family Member Information	FI	Y (4,6,8)	N
Family Member Number	FN	Y (4,6)	N
Family Member Year	FY	Y (4)	N
File Segment	FS	Y	Y
Inventor	IN	Y	Y
Inventor in Nonstandard Format	INF	Y	N
IPC	IPC	Y (9)	Y
	IC	Y (10)	Y
IPC Hit IPC codes	IPC.HIT	Y	Y
IPC Unique IPC codes in record	IPC.UNIQ	Y	Y
IPC, Initial	IPCI	Y	N
IPC, Main	ICM	Y	Y
IPC, Reclassified	IPCR	Y	N
IPC, Secondary	ICS	Y	Y
Issue National Patent Classification Code	INCL	Y	Y
Issue Main National Patent Classification Code	INCLM	Y	Y
Issue Secondary National Patent Classification Code	INCS	Y	N
Legal Representative (Agent)	LREP	Y	Y
Main National Patent Classification Code	NCLM	Y	Y
Microfilm Frame Number	MFN	N	Y
Microfilm Reel Number	MRN	N	Y
National Patent Classification Code	NCL	Y (11)	Y
Note	NTE	Y (2)	N
Number of Claims	CLMN	N	Y
Occurrence of Hit Terms	OCC	N	Y
Other Source	OS	Y	Y

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

Field Name	Field Code	ANALYZE/ SELECT(1)	SORT
Parent Case Data	PARN	Y	N
Patent Assignee	PA	Y	Y
Patent Assignee Code	PACO	Y	N
Patent Assignee Group	PASS	Y	N
Patent Assignee in Nonstandard Format	PAF	Y	N
Patent Assignee (Probable)	PPA	Y	Y
Patent Country	PC	Y (4)	Y
Patent Countries Group	PCS	Y (4,13)	N
Patent Information	PI	Y (4,6,12)	Y
Patent Number	PN	Y (4,6)	Y
Patent Number Group	PATS	Y (4,6,14)	N
Priority Country	PRC	Y (4)	Y
Priority Date	PRD	Y (4)	Y
Priority Information	PRAI	Y (4,6,15)	Y
Priority Number	PRN	Y (4,6)	Y
Priority Year	PRY	Y (4)	N
Publication Date	PD	Y (4)	Y
Publication Year	PY	Y (4)	Y
Reference Patent Classification	RPCL	Y (4)	N
Reference Patent Country	RPC	Y (4)	N
Reference Patent Information	REP	Y (4,6,16)	N
Reference Patent Inventor	RPIN	Y (4)	N
Reference Patent Number	RPN	Y (4,6)	N
Reference Patent Publication Date	RPD	Y (4)	N
Related Application Country	RLC	Y (4)	N
Related Application Date	RLD	Y (4)	N
Related Application Information	RLI	Y (4,6,17)	N
Related Application Number	RLN	Y (4,6)	N
Related Application Type	RLT	Y (4)	N
Related Application Year	RLY	Y (4)	N
Related Patent Number	RLPN	Y (4)	N
Secondary National Patent Classification Code	NCLS	Y	N
Term of Patent	PTERM	N	Y
Title	TI	Y (default)	Y
Treatment Code	TC	Y (18)	Y

- (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 RN.
- (2) Appends /BI to the terms created by SELECT.
- (3) Appends /LREP to the terms created by SELECT.
- (4) SELECT HIT and ANALYZE HIT are not valid with this field.
- (5) Selects or analyzes the application number with /AP appended to the terms created by SELECT.
- (6) Enter SET PATENT DERWENT at an arrow prompt (=>) to extract patent, application, priority, family, reference patent, and related application numbers in Derwent format.
- (7) Selects or analyzes application, priority, and related application numbers with /APPS appended to the terms created by SELECT.
- (8) Selects or analyzes family numbers with /FN appended to the terms created by SELECT.
- (9) Selects or analyzes all IPC codes with /IPC appended to the terms created by SELECT.
- (10) Selects or analyzes ICM and ICS with /IC appended to the terms created by SELECT.
- (11) Selects or analyzes NCLM and NCLS with /NCL appended to the terms created by SELECT.
- (12) Selects or analyzes the patent numbers with /PN appended to the terms created by SELECT.
- (13) Selects or analyzes the patent countries from PI, FI, and REP fields with /PCS appended to the terms created by SELECT.
- (14) Selects or analyzes the patent numbers from PI, FI, and REP fields with /PATS appended to the terms created by SELECT.
- (15) Selects or analyzes the priority numbers with /PRN appended to the terms created by SELECT.
- (16) Select or analyzes the reference patent numbers with /RPN appended to the terms created by SELECT.
- (17) Selects or analyzes the related application numbers with /RLN appended to the terms created by SELECT.
- (18) Appends /DT to the terms created by SELECT.

Full-Text Browsing

User Request	Example	System Response
DISPLAY BROWSE	=> DISPLAY BROWSE ENTER (L1) OR L#: ENTER (DIS), ANSWER NUMBERS, OR END:	NOVICE version
D BRO Answer number(s) Answer number(s) and format Format only *Format Forward n fields Backward n fields Search forward for a character string Search backward for a character string End DISPLAY BROWSE	=> D BRO L1 : :1-3 : : :4 HIT :TI TX : :*KWIC : :F3 :B1 :S GROWTH REGUL :S :S- ALKANOIC ACID :S- : :END =>	EXPERT version display answers 1, 2, and 3 in default format display next answer in default format display answer 4 in HIT format display title and text of last answer displayed change default to KWIC; no answer displayed move forward 3 fields move backward 1 field search forward within record for 'growth regul' repeat search forward for the current string search backward within record for 'alkanoic acid.' repeat search backward for the current string exit DISPLAY BROWSE and return to => prompt

IFIPAT**Sample Records****DISPLAY SBIB**

AN 10139865 IFIPAT;IFIUDB;IFICDB
 TI BASIDIOMYCETE PEROXIDASE GENE-TRANSFERRED PLANT AND A METHOD FOR
 DECOMPOSING AND REMOVING HAZARDOUS CHEMICALS USING THE SAME;
 TRANSGENIC PLANTS FOR USE IN REMOVING HAZARDOUS CHEMICALS FROM
 THE ENVIRONMENT
 IN Iimura Yosuke (JP); Katayama Yoshihiro (JP)
 PA Agency of IndustrialScience & Technology JP
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 US 66424629 20031104
 DT Utility; Patent Application - First Publication
 FS CHEMICAL
 FS APPLICATION
 CLMN 5
 GI 10 Figure(s).
 FIG. 1 shows the nucleotide sequence of a manganese peroxidase gene
 derived from Coriolus, and the deduced amino acid sequence.
 FIG. 2 shows the amino acid sequence deduced from the nucleotide sequence
 of the manganese peroxidase gene from Coriolus.
 FIG. 3 shows the structure of a plasmid W35SfMnP/pBI121.
 FIG. 4 shows the structure of a plasmid W35SmMnP/pBI121.
 FIG. 5 shows the structure of a plasmid W35SfMnP6xHis/pBI121.
 FIG. 6 shows the structure of a plasmid W35SmMnP6xHis/pBI121.
 FIG. 7 shows the manganese peroxidase activity in the callus into which
 the plasmid W35SfMnP/pBI121 is transferred.
 FIG. 8 shows the manganese peroxidase activity in the callus into which
 the plasmid W35SfMnP6xHis/pBI121 is transferred.
 FIG. 9 shows the manganese peroxidase activity in the callus into which
 the plasmid W35SmMnP/pBI121 is transferred.
 FIG. 10 shows the manganese peroxidase activity in the callus into which
 the plasmid W35SmMnP6xHis/pBI221 is transferred.

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 CARBON FIBER COMPOSITE MATERIALS; FIBER IN A SILICON/SILICON CARBIDE MATRIX;
 FOR USE AS AEROSPACE MATERIALS WITH LOW OXYGEN INDUCED MASS LOSS AND HIGH
 DURABILITY

Inventor(s): Hanzawa; Shigeru, Kagamigahara, JP
 Nakano; Kenji, Tokai, JP
 Assignee: NGK Insulators, Ltd., Nagoya, JP
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 Field of Search ... 428293100; 428293400; 428293700; 428408000; 428409000;
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FOREIGN PATENT DOCUMENTS

Patent Number	Date	Class
EP 1028099	Aug 2000	
GB 1457757	Dec 1976	
WO 9919273	Apr 1999	

Primary Examiner - Jones, Deborah
Assistant Examiner - Bahta, Abraham
Attorney, Agent or Firm - Burr & Brown

ABSTRACT

Provided are carbon fiber composite materials which have a structure including a skeletal part and a matrix formed integrally around the skeletal part. The skeletal part is mainly composed of carbon fiber bundles and silicon carbide and metallic silicon formed in the carbon fiber bundles and/or on the outer surface of the carbon fiber bundles. The matrix is mainly composed of silicon carbide and metallic silicon. Alternatively, the carbon fiber composite materials have a structure including a skeletal part and a matrix formed integrally around the skeletal part and have a porosity of 0.5-5% and a two-peak type distribution of average pore diameter. The skeletal part is formed of carbon fibers and a carbon component other than the carbon fibers and/or silicon carbide, and the matrix being formed of silicon carbide at least 50% of which is of beta type. These carbon fiber composite materials are suitable for the uses as aerospace materials.

8 Claim(s), 5 Drawing Sheet(s), 7 Figure(s).

EXEMPLARY CLAIM

D R A W I N G

1. A carbon fiber composite material which has a structure comprising a skeletal part and a matrix formed integrally around the skeletal part, said skeletal part being mainly composed of carbon fiber bundles and silicon carbide and metallic silicon formed in the carbon fiber bundles and/or on the outer surface of the carbon fiber bundles and said matrix being mainly composed of silicon carbide and metallic silicon, wherein the content of metallic silicon increases in an inclined manner from inside of the skeletal part toward the outer surface of the skeletal part, and/or from the outer surface of the skeletal part toward the outer surface of the matrix, and/or from the outer surface of the matrix toward the inside of the matrix.

NON-EXEMPLARY CLAIMS

2. A carbon fiber composite material which has a structure comprising a skeletal part and a matrix formed integrally around the skeletal part, said skeletal part being mainly composed of carbon fiber bundles and silicon carbide and metallic silicon formed in the carbon fiber bundles and/or on the outer surface of the carbon fiber bundles and said matrix being mainly composed of silicon carbide and metallic silicon, said material being formed by laminating a plurality of sheets each of which comprises a plurality of preformed yarns arranged in nearly parallel with one another, said preformed yarns comprising

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bundles mainly composed of carbon fibers and a resin covering the outer surface of the bundles, heat-treating the laminate in a non-oxidizing atmosphere, and impregnating the laminate with metallic silicon to form integrally the skeletal part and the matrix.

3. A carbon fiber composite material which has a structure comprising a skeletal part and a matrix formed integrally around the skeletal part and has a porosity of 0.5-5% and a two-peak type distribution of average pore diameter, said skeletal part being formed of carbon fibers and a carbon component other than the carbon fibers and/or silicon carbide, and said matrix being formed of silicon carbide at least 50% of which is of beta type.

4. A carbon fiber composite material according to claim 3, wherein the matrix is formed along the surface of the skeletal part.

5. A carbon fiber composite material according to claim 3, wherein the matrix has such an inclined composition as the silicon content increasing in proportion to the distance from the surface of the skeletal part.

6. A carbon fiber composite material according to claim 3, wherein the matrix has a continuous three-dimensional network structure.

7. A carbon fiber composite material according to claim 3, wherein the skeletal part comprises a laminate formed by laminating sheets each of which comprises a plurality of preformed yarns arranged in nearly parallel with each other and comprising carbon fibers and a carbon component other than carbon fibers in such a manner that the longer directions of the preformed yarns alternately cross at right angles.

8. A carbon fiber composite material according to claim 3, which is an aerospace material.

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AN 3711948 IFIPAT;IFIUDB;IFICDB
 TITLE: GALANIN TRANSGENIC MICE;MOUSE WITH GENOME HAVING NUCLEIC ACID CONSTRUCT COMPRISING MAMMALIAN PITUITARY GENETIC OVEREXPRESSION: DEVELOPMENT OF PITUITARY ADENOMAS
 INVENTOR(S): Vrontakis; Maria E., Winnipeg, CA
 PATENT ASSIGNEE(S): The University of Manitoba, Winnipeg, CA
 PRIMARY EXAMINER: Clark, Deborah J. R
 ASSISTANT EXAMINER: Baker, Anne-Marie
 AGENT: Kohn & Associates

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	APPLN. NUMBER	DATE	GRANTED PATENT NO. OR STATUS
CONTINUATION OF:	US 1998-215051	19981217	ABANDONED

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FAMILY INFORMATION:	US 6414220	20020702
DOCUMENT TYPE:	UTILITY	
FILE SEGMENT:	CHEMICAL	
	GRANTED	
OTHER SOURCE:	CA 137:58611	

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ABSTRACT:

A transgenic mammal whose somatic and germ cells having a nucleic acid construct wherein the construct includes a mammalian promoter operably linked to a cDNA genomic sequence is provided for the overexpression of galanin. Also provided is a construct having cDNA for the overexpression of galanin. A method of making a transgenic mammal by producing a mammal having a construct for the overexpression of galanin is provided.

NUMBER OF CLAIMS: 5
GRAPHICS INFORMATION: 11 Drawing Sheet(s), 24 Figure(s).
INDEPENDENT CLAIM: 3,5

EXEMPLARY CLAIM(S):

D R A W I N G

1. A transgenic mouse having integrated in its genome a nucleic acid construct comprising a mammalian pituitary specific promoter operably linked to a galanin cDNA sequence wherein said mouse expresses galanin in the pituitary at an elevated level compared to a non-transgenic mouse and further wherein galanin is secreted into the circulation at an elevated level compared to a nontransgenic mouse, such that said mouse develops pituitary adenomas.

NON-EXEMPLARY CLAIM(S):

2. The transgenic mouse according to claim 1, wherein said galanin cDNA is selected from the group consisting of rat and human cDNA according to SEQ ID NO: 1-3.
3. A construct comprising galanin cDNA operably linked to a pituitary specific promoter.
4. The construct according to claim 3, wherein said galanin cDNA is rat or human cDNA.
5. A method of making a transgenic mouse whose genome comprises a nucleic acid construct wherein the construct comprises a mammalian pituitary specific promoter operably linked to a galanin cDNA sequence, said method comprising the steps of: transferring a nucleic acid construct comprising a mammalian pituitary specific promoter operably linked to a zalanin cDNA sequence to a murine zygote; allowing said zygote to develop to term; obtaining a mouse whose genome comprises the nucleic acid construct; breeding said mouse with a non-transgenic mouse to obtain F1 offspring and selecting a mouse whose zenome comprises the nucleic acid construct, wherein said mouse expresses galanin in the pituitary at an elevated level compared to a non-transgenic mouse and further wherein galanin is secreted into the circulation at an elevated level compared to a non-transgenic mouse, such that said mouse develops pituitary adenomas.

OTHER REFERENCES: Hammer et al. Spontaneous inflammatory disease in transgenic rats expressing HLA-B27 and human b2m: An animal model of HLA-B27-associated disorders. Cell 63: 1099-1112, Nov. 1990.*
Hohmann et al. Transgenic mice that overexpress the galanin gene in brainstem neurons. Society for Neuroscience Abstracts. 23(2): 1878, Oct. 1997.*
Kaplan et al. Tissue-specific expression of the rat galanin gene. Proc. Natl. Acad. Sci. USA 85: 1065-1069, Feb. 1988.*
Mullins et al. Expression of the DBA/2J Ren-2 gene in the adrenal gland of transgenic mice. EMBO J. 8(13): 4065-4072, 1989.*

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Mullins et al. Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene. Nature 344: 541-544, Apr. 1990.*

Taurog et al. HLA-B27 in inbred and non-inbred transgenic mice. J. of Immunol. 141: 4020-4023, Oct. 1997.

Wall, RJ Transgenic livestock: Progress and prospects for the future. Theriogenology 45: 57-68, 1996.*

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