



STN is operated in North America
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STN Database Summary Sheet

CAS Markush Search Service contains the Markush structure records for patents found in CAplusSM with the patent publication year of 1988 to the present. Russian patents published after January 10, 2000 are included. Pre-1988 records are derived from INPI data.

Records contain the Markush structures found in the claims and often the disclosure of the patent, bibliographic information, patent family information, cited references, in-depth substance and subject indexing including CAS Registry Numbers[®], and an abstract, all of which are displayable. The structures are searchable. Document information can be searched in CA and CAplus.

LMARPATSM is a companion training database for learning how to use MARPAT.

Subject Coverage

Markush structures of organic or organometallic molecules found in the patent from countries covered by CAplus are included. All chemical subject areas are included. Alloys, metal oxides, inorganic salts, intermetallics, and polymers are not included at this time.

Sources

- Patents from 50 active patent-issuing organizations
- Some pre-1988 Markush structures derived from INPI data

File Data

- Pre-1961 to the present
- More than 317,000 records (12/08)
- More than 780,000 Markush structures (12/08)
- Updated daily with approximately 60-75 citations and 150-200 Markush structures
- Automatic current-awareness searches (SDIs) are run every two weeks

User Aids

- MARPAT User Guide
- Search aids are available at:
www.cas.org/support/stngen/index.html
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

Database Producer

Chemical Abstracts Service
P.O. Box 3012
Columbus, Ohio 43210-0012 USA
Phone: 800-753-4227 (North America)
614-447-3700 (worldwide)
Fax: 614-447-3751
E-mail: help@cas.org

Database Representatives

See www.cas.org/support/agents.html for a list of representatives worldwide.

In North America

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STN North America
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Columbus, Ohio 43210-0012 U.S.A.

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In Europe

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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

MARPAT

SEARCH and DISPLAY Field Codes

There are no fields that allow left truncation.

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index (contains single words from the textual information associated with the Markush structures) (1)	None (or /BI)	S MESO S PHARMACEUT? (L) SALT#	MSTR
Accession Number Entry Date (2) Update Date (2)	/AN /ED /UP	S 118:93622/AN S 19990305/ED S L1 AND UP>=19990100	AN Not displayed Not displayed

(1) Only structure-related text terms are included; terms from the CPlus Basic Index are not searchable.

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

Limiting Search Codes

Only an L-number for an answer set created in MARPAT may be limited.

Search Field Name	Search Code	Search Examples	Display Codes
Answers completely iterated Answers incompletely iterated	/COMPLETE /INCOMPLETE	S L4/COM (1) S L4/INC (1)	Not displayed Not displayed

(1) The code may be abbreviated to the first three letters.

Structure Search Terms

Novice SEARCH provides prompts to allow you to modify some query attributes, e.g., MLEVEL, before search is run.

Term	Search Examples
L-number of a structure built using the STRUCTURE command or uploaded from STN Express (1)	SEARCH L1 CSS FUL S L2 S L7 SUBSET=L5

(1) The L-number answer set from a structure search may be combined with text terms, e.g., S L6 AND SALTS.

Types of Structure Searching

Novice SEARCH provides prompts to allow you to modify some query attributes, e.g., MLEVEL, before the search is run.

Type	Definition	Search Code	Search Examples
Substructure (default)	Search for substances that match the query. Substitution is allowed at all open positions.	SSS	SEARCH L1 SSS FUL S L2
Closed Substructure	Search for substances that match the query exactly. Substitution is allowed at positions opened by CONNECT.	CSS	SEARCH L1 CSS FUL SEA L4 CSS SUB=L2

Scopes of Structure Searches

Novice SEARCH provides prompts to allow you to modify some query attributes, e.g., MLEVEL, before the search is run.

To create an L-number answer set containing candidate structures that have passed the screening step of your structure search, enter EXTEND on the search command line or enter SET EXTEND ON or SET EXTEND ON PERM at an arrow prompt (=>). For details, enter HELP SET EXTEND at an arrow prompt.

Scope	Definition	Search Code	Search Examples
Sample (default)(1) Full Range Subset Sample	Search a fixed 5% of the file Search 100% of the file Search a user-specified portion of the file Search a fixed sample of an answer set created by a search in MARPAT	SAM FUL RAN SUB SAM	SEARCH L1 SAM SSS S L5 SSS FUL S L4 RAN=(V117,) S L7 CSS SUB=L5 SAM
Subset Range Subset Full	Search a user-specified portion of an answer created by a search in MARPAT Search 100% of an answer set created by a search in MARPAT	SUB RAN RAN=(V118) SUB FUL	S L3 SUB=L2 S L8 SUB=L6 FUL

(1) EXTEND is not valid with SAMPLE.

DISPLAY Formats

Any combination of formats may be used to display answers. Multiple codes must be separated by spaces or commas. The fields are displayed in the order requested, e.g., D TI AU. The PRINT command is not valid in MARPAT. The default Generic Group display (expanded form) has GTEXT set to ON. To use the compact form, enter SET GTEXT OFF at an arrow prompt (=>).

Hit-term highlighting is available in the AN and MSTR fields. Highlighting must be ON during SEARCH in order to use HIT, FHIT, FQHIT, and QHIT formats.

Format	Content	Examples
AB	Abstract Text	D AB
AI (AP) (1)	Patent Application Information	D AI PI
AI.B (AP.B) (1)	Patent Application Information, Basic	D AI.B
AN	Accession Number	DISPLAY L2 1-10 AN HIT
ANPL	AN and CPlus Accession Number	D ANPL
CC	CA Classification Code (CA section and section cross-references)	D CC
CT (2)	Controlled Term	D CT
CYA (2)	Country of Author	D CYA
CYC (CY.CNT) (2)	Patent Country Count	D CYC
DS (2)	Designated States	D PI DS
DS.B (2)	Designated States, Basic	D DS.B
DT (TC)	Document Type	D DT
FS (2)	File Segment (Section Group)	D FS
GI (3)	Graphic Image or Graphic Image Information	D GI
ICA	Additional or Supplementary IPC	D 2-10 ICA
ICI	Index or Complementary IPC	D 5 8 ICI
ICM	Main IPC	D ICM
ICS	Secondary IPC	D ICS
IN (AU)	Inventor Name	D IN
ISN (2)	International Standard (Document) Number	D ISN
IT (4)	Index Term and CAS role	D AN IT
LA	Language	D LA
MSTR	All Markush structures and related text	D AN MSTR
MSTR(n) (2)	Markush structure n and its related text	D AN MSTR (1)
NCL	National Patent Classification	D NCL
OS	Other Source	D OS

MARPAT**DISPLAY Formats (cont'd)**

Format	Content	Examples
PA (CS) PI (PN) (1) PI.B (PN.B) (1,2) PNC (PN.CNT) (2) PRAI (PRN) (1) PRAI.B (PRN.B)(1) PY (2) PY.B (2) RE (3) RETABLE (2,3) RE.CNT (REC) (3) RL (4) RN (2) SO ST SX (2,5) TI	Patent Assignee Patent Information Table Patent Information, Basic Patent Number Count Priority Application Information Priority Application Information, Basic Publication Year Publication Year, Basic Cited References Cited References Table Citing Document's Reference Count Index Term and CAS role CAS Registry Numbers Source Supplementary Term (CA keyword) CA Section Cross-Reference Code Title of Document	D PA D TI PI D PI.B D PNC D AI PRAI D PRAI.B D PY D TI PY.B D TI RE D TI AU RETABLE D REC D RL D AN RN D TI AU SO D ST D TI SX D TI MSTR
ABS ALL (1,4) APPS (1) APPS.B (1) BIB (1) CAN CBIB DALL (1,4) DMAX (1,4) FAM (1) FAN FBIB (1) IABS IALL (1,4) IBIB (1) IC IDE IMAX (1,4) IND (4) IPC ISTD (1) MAX (1,4) OBIB (1) OIBIB (1) PATS (1) SAM (4) SBIB (1) SCAN (3,4,6) SIBIB (1) STD (1)	GI, AB AN, TI, IN, PA, SO, DT, LA, IC (ICM, ICS), ICA, ICI, NCL, CC, FAN.CNT, PI, PRAI, OS, GI, AB, ST, IT, RL, RE.CNT, RE, MSTR AI, PRAI AI.B, PRAI.B AN, TI, IN, PA, SO, DT, LA, FAN.CNT, PI, PRAI, OS, RE.CNT (BIB is the default) List of CA Abstract Numbers (no L-number header) AN, plus Compressed Bibliographic Data ALL, delimited for post-processing MAX, delimited for post-processing AN, FAN.CNT, PI for the accession number, plus PI for other family accession numbers Family Accession Number (AN, FAN.CNT, FAN) BIB plus PI for other family accession numbers ABS, with text labels ALL, indented with text labels BIB, indented with text labels International Patent Classification, Main and Secondary AN, MSTR MAX, indented with text labels IC (ICM, ICS), ICA, ICI, NCL, CC, ST, IT, RL International Patent Classifications (IC (ICM, ICS), ICA, ICI) STD, indented with text labels ALL, plus PI for other family accession numbers BIB, Original (AN, TI, IN, PA, SO, PI, DS, AI, PRAI, DT, LA, OS) OIBIB, indented with text labels SO, PI IC (ICM, ICS), ICA, ICI, NCL, CC, SX, TI, ST, IT, and FQHIT BIB, without RE.CNT (AN, DN, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS) IC (ICM, ICS), ICA, ICI, NCL, CC, TI, ST, IT, RL, FQHIT (random display, no answer numbers) SBIB, indented with text labels AN, TI, IN, PA, SO, DT, LA, FAN.CNT, PI, PRAI, IC (ICM, ICS), ICA, ICI, NCL, OS, RE.CNT	D ABS D L2 1-7 ALL D APPS D APPS.B D 1-3 BIB HIT D CAN DISPLAY L1 1 CBIB D DALL D MAX D FAM D FAN D FBIB D IABS D IALL D IBIB D PI IC D IDE D IMAX D TI IND D IPC D ISTD D MAX D OBIB D OIBIB D PATS DIS SAM 1-5 D 1 3 SBIB D SCAN D SIBIB D STD

DISPLAY Formats (cont'd)

Format	Content	Examples
FHIT FQHIT	First hit MSTR and fields containing hit text terms First query-focused Markush structure containing the query structure and the fields containing hit text terms	D CBIB ABS FHIT D FQHIT
HIT QHIT	Fields containing hit terms, including all hit MSTRs Fields containing hit text terms and the query-focused Markush structures containing the query structure	D CBIB ABS HIT D QHIT

- (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) Custom display only.
- (3) No online display fee for this format.
- (4) By default, roles are displayed as codes and text. To suppress the display of role codes and text, enter SET ROLES OFF. To display only codes, enter SET ROLES CODES.
- (5) SX displays all information in the CC field, i.e., CA section and section cross-references.
- (6) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

Displaying CAPLUS or MEDLINE documents for cited references

Enter the following in the DISPLAY command: L-number for the answer set; answer number (only one may be specified); RAN.CAPLUS(x-y), RAN.MED(x-y) where (x-y) is the cited reference number, numbers, or range of numbers; and the display format for the document to display, e.g., BIB ABS. For example, to display CAPLUS records for the cited references 1 and 2 from answer 2 in the answer set L5, enter the following:

=> D RAN.CAPLUS(1-2) L5 2 BIB ABS

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	SORT
Abstract Text	AB	Y	N
Accession Number	AN	Y (1)	N
Author (Inventor)	AU	Y	Y
CA Classification Code (section and subsection)	CC	Y	Y
CA Section Cross-Reference Code	SX	Y	Y
CAS Registry Number	RN	Y (2)	N
CAS Role	RL	Y	N
Cited References	RE	Y	N
Cited Reference(n)	RE(n)	Y (3)	N
Cited References Table	RETABLE	Y	N
Cited Reference Accession Number in CAPLUS	RAN.CAPLUS	Y (4)	N
Cited Reference Accession Number(n) in CAPLUS	RAN.CAPLUS(n)	Y (3,4)	N
Cited Reference Accession Number in MEDLINE	RAN.MED	Y (5)	N
Cited Reference Accession Number(n) in MEDLINE	RAN.MED(n)	Y (3,5)	N
Cited Reference Author Name	RAU	Y	N
	RIN	Y (6)	N
Cited Reference Count	RE.CNT	Y	Y
	REC	Y	Y

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

Field Name	Field Code	ANALYZE/ SELECT	SORT
Cited Reference Patent Country	RPC	Y	N
Cited Reference Patent Kind	RPK	Y	N
Cited Reference Patent Number	RPN	Y	N
Cited Reference Publication Year	RPY	Y	N
Cited Reference Work Title	RWK	Y	N
CODEN	CODEN	Y (7)	Y
Controlled Term	CT	Y	N
Corporate Source (Patent Assignee)	CS	Y	Y
Country Name of Author	CYA	Y	Y
Designated State	DS	Y	N
Designated States, Basic	DS.B	Y (8)	N
Document Type	DT	Y	Y
Family Accession Number	FAN	Y (9)	N
File Segment	FS	Y	Y
Index Term	IT	Y	N
International Standard (Document) Number	ISN	Y (10)	N
Inventor Name	IN	Y	Y
IPC	IPC	Y (11)	Y
IPC, Additional or Supplementary	ICA	Y	Y
IPC, Index or Complementary	ICI	Y	Y
IPC, Main	ICM	Y	Y
IPC, Main and Secondary	IC	Y	Y
IPC, Secondary	ICS	Y	Y
Language	LA	Y	Y
National Patent Classification	NCL	Y	Y
Other Source	OS	Y	Y
Patent Application Country	AC	Y	Y
Patent Application Country, Basic	AC.B	Y (12)	Y
Patent Application Date	AD	Y	Y
Patent Application Date, Basic	AD.B	Y (13)	Y
Patent Application Information	AI	Y (14,15)	Y
Patent Application Information, Basic	AI.B	Y (15,16)	Y
Patent Application Number	AP	Y (15)	Y
Patent Application Number, Basic	AP.B	Y (15,17)	Y
Patent Application and Priority Number	APPS	Y (15,18)	N
Patent Application and Priority Number, Basic	APPS.B	Y (15,19)	N
Patent Application Year	AY	Y	Y
Patent Application Year, Basic	AY.B	Y (20)	Y
Patent Assignee	PA	Y	Y
Patent Countries	PCS	Y (21)	N
Patent Countries, Basic	PCS.B	Y (22)	N
Patent Country	PC	Y	Y
Patent Country, Basic	PC.B	Y (23)	Y
Patent Country Count	CYC	Y (24)	N
Patent Information	PI	Y (15,25)	Y
Patent Information, Basic	PI.B	Y (15,26)	Y
Patent Kind Code	PK	Y	Y
Patent Kind Code, Basic	PK.B	Y (27)	Y
Patent Number	PN	Y (15)	Y
	PATS	Y (15,28)	N
Patent Number, Basic	PN.B	Y (15,29)	Y
	PATS.B	Y (15,30)	N
Patent Number Count	PNC	Y (31)	N
Priority Application Country	PRC	Y	Y
Priority Application Country, Basic	PRC.B	Y (32)	Y

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

Field Name	Field Code	ANALYZE/ SELECT	SORT
Priority Application Date	PRD	Y	Y
Priority Application Date, Basic	PRD.B	Y (33)	Y
Priority Application Information	PRAI	Y (15,34)	Y
Priority Application Information, Basic	PRAI.B	Y (15,35)	Y
Priority Application Number	PRN	Y (15)	Y
Priority Application Number, Basic	PRN.B	Y (15,36)	Y
Priority Application Year	PRY	Y	Y
Priority Application Year, Basic	PRY.B	Y (37)	Y
Publication Date	PD	Y	Y
Publication Date, Basic	PD.B	Y (38)	Y
Publication Year	PY	Y	Y
Publication Year, Basic	PY.B	Y (39)	Y
Source of Document	SO	Y	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y (40)	Y

- (1) SELECT HIT AN may be used to restrict terms extracted to those that match the search expression used to create the answer set.
- (2) Appends /BI to the terms created by SELECT.
- (3) (n) may be a single number, range, or a list of numbers separated by a space or comma.
- (4) Selects or analyzes cited reference accession number in CAPplus and appends /AN to the terms created by SELECT.
- (5) Selects or analyzes cited reference accession number in MEDLINE and appends /AN to the terms created by SELECT.
- (6) Selects or analyzes cited reference author name and appends /RAU to the terms created by SELECT.
- (7) Selects CODEN and appends /ISN to the terms created by SELECT.
- (8) Appends /DS to the terms created by SELECT.
- (9) Appends /AN to the terms created by SELECT.
- (10) Selects or analyzes the CODEN and appends /ISN to the terms created by SELECT.
- (11) Selects or analyzes IC, ICA, and ICI and appends /IPC to the terms created by SELECT.
- (12) Appends /AC to the terms created by SELECT.
- (13) Appends /AD to the terms created by SELECT.
- (14) Selects or analyzes Patent Application Number and appends /AP to the terms created by SELECT.
- (15) Enter SET PATENT DERWENT at an arrow prompt (=>) to SELECT patent, application, and priority numbers in Derwent format.
- (16) Selects or analyzes Basic Patent Application Number and appends /AP to the terms created by SELECT.
- (17) Appends /AP to the terms created by SELECT.
- (18) Selects or analyzes AP and PRN and appends /APPS to the terms created by SELECT.
- (19) Selects or analyzes AP.B and PRN>B and appends /APPS to the terms created by SELECT.
- (20) Appends /AY to the terms created by SELECT.
- (21) Selects or analyzes country codes from PI and DS and appends /PCS to the terms created by SELECT.
- (22) Selects or analyzes country codes from PI.B and DS.B and appends /PCS to the terms created by SELECT.
- (23) Appends /PC to the terms created by SELECT.
- (24) Appends /CY.CNT to the terms created by SELECT.
- (25) Selects or analyzes the Patent Number and appends /PN to the terms created by SELECT.
- (26) Selects or analyzes the Basic Patent Number and appends /PN to the terms created by SELECT.
- (27) Appends /PK to the terms created by SELECT.
- (28) Selects or analyzes the Patent Number and appends /PATS to the terms created by SELECT.
- (29) Appends /PN to the terms created by SELECT.
- (30) Selects or analyzes the Basic Patent Number and appends /PATS to the terms created by SELECT.
- (31) Appends /PN.CNT to the terms created by SELECT.
- (32) Appends /PRC to the terms created by SELECT.
- (33) Appends /PRD to the terms created by SELECT.
- (34) Selects Priority Number and appends /PRN to the terms created by SELECT.
- (35) Selects Basic Priority Number and appends /PRN to the terms created by SELECT.
- (36) Appends /PRN to the terms created by SELECT.
- (37) Appends /PRY to the terms created by SELECT.
- (38) Appends /PD to the terms created by SELECT.
- (39) Appends /PY to the terms created by SELECT.
- (40) Appends /DT to the terms created by SELECT.

MARPAT**Sample Record****DISPLAY IALL (GTEXT=ON)**

ACCESSION NUMBER: 132:264964 MARPAT
 TITLE: Preparation of aromatic hydroxythiols from
 bis-diazonium salts
 INVENTOR(S): Zhang, Mingbao; Ryckman, David; Mac, Eric
 PATENT ASSIGNEE(S): AlliedSignal Inc., USA
 SOURCE: U.S., 5 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 INT. PATENT CLASSIF.:
 MAIN: C07C319-02
 US PATENT CLASSIF.: 568062000
 CLASSIFICATION: 25-10 (Benzene, Its Derivatives, and Condensed
 Benzenoid Compounds)
 Section cross-reference(s): 45
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	----	-----	----
US 6054622	A	20000425	US 1998-213144	19981218

OTHER SOURCE(S): CASREACT 132:264964

ABSTRACT:

Arom. hydroxythiols (e.g., 3-hydroxythiophenol) are prepd. in high yield and selectivity by oxidizing an arom. aminothiols (e.g., 3-aminothiophenol) to an aminodisulfide compd., forming a bis-diazonium salt of the aminodisulfide compd., and reacting the bis-diazonium salt with water to form an arom. hydroxyldisulfide compd., which is then reduced to the hydroxythiol.

SUPPL. TERM: hydroxythiophenol prepn; arom hydroxythiol prepn;
 aminothiophenol oxidn diazotization hydroxylation redn prepn
 hydroxythiophenol
 INDEX TERM: Thiols (organic), reactions
 ROLE: RCT (Reactant)
 (amino, arom.; prepn. of arom. hydroxythiols from
 bis-diazonium salts)
 INDEX TERM: Thiols (organic), preparation
 ROLE: IMF (Industrial manufacture); SPN (Synthetic
 preparation); PREP (Preparation)
 (aryl, arom. hydroxythiols; prepn. of arom. hydroxythiols
 from bis-diazonium salts)
 INDEX TERM: Diazonium compounds
 ROLE: PNU (Preparation, unclassified); RCT (Reactant); PREP
 (Preparation)
 (bis-diazonium salts of aminodisulfide compds.)
 INDEX TERM: Thermal decomposition
 (in the manuf. of arom. hydroxythiols from bis-diazonium
 salts)
 INDEX TERM: Oxidation
 (liq.-phase; of arom. aminothiols into diamino diaryl
 disulfides)
 INDEX TERM: Hydroxylation
 (of bis-diazonium salts of arom. aminodisulfide compds.)
 INDEX TERM: Diazotization
 (of diamino arom. disulfides in the manuf. of arom.
 hydroxythiols)
 INDEX TERM: Amines, reactions
 ROLE: RCT (Reactant)
 (thiol, arom.; prepn. of arom. hydroxythiols from
 bis-diazonium salts)

MARPAT**DISPLAY FBIB MSTR(1) (GTEXT=ON)**

AN 130:146287 MARPAT
 TI Liquid crystal composition for display device
 IN Kaneko, Masaharu; Kadowaki, Masami; Sato, Hideki
 PA Mitsubishi Chemical Corporation, Japan
 SO U.S., 16 pp.
 CODEN: USXXAM

DT Patent
 LA English

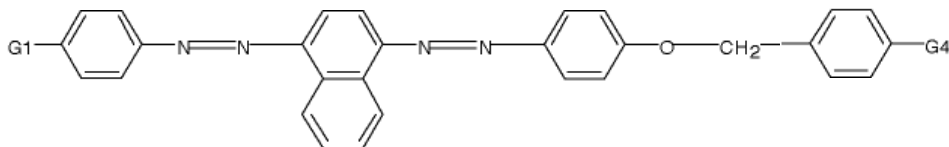
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	----	-----	----
PI	US 5866033	A	19990202	US 97-946859	19971008
				JP 96-277789	19961021
				JP 97-27684	19970212
				JP 97-77234	19970328
	JP 10183121	A2	19980714	JP 97-77234	19970328
				JP 96-277789	19961021

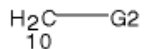
PATENT FAMILY INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	----	-----	----
FAN	129:154760				
PI	JP 10183121	A2	19980714	JP 97-77234	19970328
				JP 96-277789	19961021
	US 5866033	A	19990202	US 97-946859	19971008
				JP 96-277789	19961021
				JP 97-27684	19970212
				JP 97-77234	19970328

MSTR 1



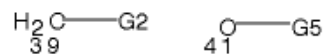
G1 = H / alkyl / alkoxy /
 alkyl (substd. by alkoxy)
 / halo / cyclohexyl (opt. substd. by 1 or more G3) /
 Ph (opt. substd. by 1 or more G3) / 10 / (Eamples: octyl / Bu-n)



G2 = cyclohexyl (opt. substd. by 1 or more G3) / Ph (opt. substd. by 1 or more G3)

DISPLAY FBIB MSTR(1) (GTEXT=ON) (cont'd)

G3 = alkyl / alkoxy /
alkyl (substd. by alkoxy / alkoxy /
alkyl (substd. by alkoxy) / halo
/ cyclohexyl (opt. substd.by 1 or more G3) /
Ph (opt. substd. by 1 or more G3) / 39 / (Example: 41)



G5 = heptyl / pentyl / Bu-n

Patent location: claim 1

Note: total number of carbon atoms in alkyl groups substituted with
alkoxy groups in G1, G3, and G4 is 2-12

RE.CNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT