

The Facts on Legal Status Who, What, When, Where and Why

Jim Brown

FIZ Karlsruhe, Inc.



Agenda

Who












What

When

Where

Why

Databases used

	Patent family	Assignee	Legal status
INPAFAMDB/ INPADOCDB			
EPFULL			
DWPI			
CAPlus			
IFPAT			
IFICLS			

Agenda

Who – who owns it?

What

When

Where

Why

Who owns it?

- ❑ Assignee at time of publication
 - ➔ On the face of the document
 - ➔ Not on the front of document
- ❑ (Re)assignment after publication

Who owns it?

- ❑ Assignee at time of publication
 - On the face of the document
 - ➔ In the Assignee field of the document
 - ➔ In the Legal Rep/Correspondence field

Assignments at time of publication

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (P

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 June 2007 (21.06.2007)

PCT

(10) International Publication Number
WO 2007/070690 A3

(51) International Patent Classification:
C10M 159/00 (2006.01) C10G 71/00 (2006.01)

(21) International Application Number:
PCT/US2006/048052

(22) International Filing Date:
15 December 2006 (15.12.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/750,563 15 December 2005 (15.12.2005) US
11/637,346 12 December 2006 (12.12.2006) US

(71) Applicant (for all designated States except US): **EXXON-MOBIL RESEARCH AND ENGINEERING COMPANY** [US/US]; 1545 Route 22 East, P. O. Box 900, Annandale, NJ 08801-0900 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BAILLARGEON.**

(81) Designated States (unless otherwise indicated, f
kind of national protection available): AE, AG, A
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, C
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG
GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL
JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, N
MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, T
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,

(84) Designated States (unless otherwise indicated, f
kind of regional protection available): ARIPO (E

The assignee **ExxonMobil Research and Engineering Company** on the face of the patent, in the applicant/assignee field.

Assignments at time of publication

AN 53440235 **INPADOCDB** ED 20080131 EW 200805 UP 20080313 UW 200811 Full-text
FN 35663499
TI LUBRICANT COMPOSITION WITH IMPROVED SOLVENCY.
COMPOSITION LUBRIFIANTE PRESENTANT UNE SOLVABILITE AMELIOREE.
TL English; French
IN BAILLARGEON, DAVID, J.
INS BAILLARGEON DAVID J, US
PA EXXONMOBIL RESEARCH AND ENGINEERING COMPANY; BAILLARGEON, DAVID, J.
PAS EXXONMOBIL RES & ENG CO, US; BAILLARGEON DAVID J, US
DT Patent
PI WO 2007070690 A3 20080124
PIT WOA3 INTERNATIONAL SEARCH REPORT
FDT Wox With international search report
DAV 20080124 supplemental-srep-reference
STA PRE-GRANT PUBLICATION
DS W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID
IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY
MA MD MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO
RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US

The assignee **ExxonMobil Research and Engineering Company** in the assignee field.

Assignments at time of publication



US 20080214617A1

(19) **United States**

(12) **Patent Application Publication**

Fu et al.

(10) **Pub. No.:** US 2008/0214617 A1

(43) **Pub. Date:** Sep. 4, 2008

(54) **CARBAMATE COMPOUNDS**

(76) Inventors: **Hong Fu**, Union City, CA (US);
Yaoquan Liu, Castro Valley, CA (US)

(52) **U.S. Cl.** 514/336; 549/419; 548/247; 546/282.1;
548/202; 514/459; 514/378; 514/365

(57) **ABSTRACT**

Carbamate compounds having formula I (where R¹, R², R³, R⁴ are useful as anti-tumor agents)

Correspondence Address:
Bristol-Myer Squibb Company
Route 206 & Province Line Road
Princeton, NJ 08543 (US)

The assignee **Bristol-Myer Squibb Company** on the face of the patent, but not in applicant/assignee field.

(21) Appl. No.: 12/070,835

(22) Filed: Feb. 20, 2008

Related U.S. Application Data

(60) Provisional application No. 60/903,770, filed on Feb. 26, 2007.

Publication Classification

(51) **Int. Cl.**

A61K 31/4433 (2006.01)

C07D 309/16 (2006.01)

C07D 413/12 (2006.01)

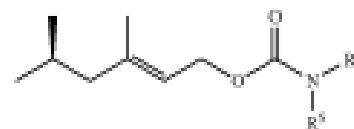
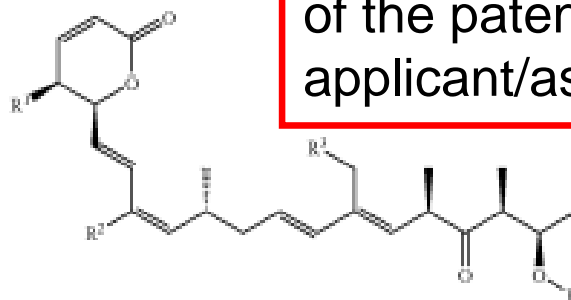
C07D 405/12 (2006.01)

A61K 31/427 (2006.01)

A61P 35/00 (2006.01)

C07D 277/22 (2006.01)

A61K 31/351 (2006.01)



Assignments at time of publication

AN 2008-2038284 WPIFV [Full-text](#)
 TI Carbamate compounds
 AG Bristol-Myer Squibb Company
 Route 206 & Province Line Road , Princeton, NJ 08543 US
 IN FU H (US); LIU Y (US)
 INFN Fu Hong , Union City, CA US
 Liu Yaoquan , Castro Valley, CA US
 PA (FUHH-I) FU H (US) ; (LIUY-I) LIU Y (US)
 PI US 2008214617 A1 20080904 English Basic
 AI [US 2008-70835](#) 20080220
[US 2007-903770P](#) 20070226 (P
 PRAI [US 2007-903770P](#) 20070226
[US 2008-70835](#) 20080220

The assignee **Bristol-Myer Squibb Company** is not in assignee field, but is in the agent field. INPADOCDB does not include the agent field.

Who owns it?

- ❑ Assignee at time of publication
 - Not on the face of the document
 - ➔ Patent family information in INPAFAMDB, DWPI, and-or CAPIus
 - ➔ IFI's U.S. Patents and Current Legal Status databases

Who owns it?



US 20080076926A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2008/0076926 A1**
Boschelli et al. (43) **Pub. Date: Mar. 27, 2008**

(54) **PROCESS FOR THE PREPARATION OF
4-HYDROXYTHIENO[2,3-B]PYRIDINE-5-
CARBONITRILES**

(22) Filed: **Sep. 25, 2007**

Related U.S. Application Data

(76) Inventors: **Diane Harris Boschelli**, New City, NY (US); **Lawrence Nathan Tumey**, New Windsor, NY (US); **Biqi Wu**, Nanuet, NY (US)

(60) Provisional application No. 60/847,334, filed on Sep. 26, 2006. Provisional application No. 60/956,253, filed on Aug. 16, 2007.

Correspondence Address:

**KIRKPATRICK & LOCKHART PRESTON
GATES ELLIS LLP
(FORMERLY KIRKPATRICK&LOCKHART
NICHOLSON GRAHAM)
STATE STREET FINANCIAL CENTER
ONE LINCOLN STREET
BOSTON, MA 02111-2950 (US)**

No assignee on the face of the patent.

(21) Appl. No.: **11/903,918**

(57) **ABSTRACT**

A process for the preparation of 4-hydroxythieno[2,3-b]pyridine-5-carbonitriles, which can be useful for the preparation of protein kinase inhibitors, is provided.

Assignments at time of publication

ACCESSION NUMBER: 36627601 **INPAFAMDB**
ED 20080410 EW 200815 UP 20080410 UW 200815

DOCUMENT NUMBER: 56105682

TITLE: Process for the preparation of 4-hydroxythieno[2,3-b]pyridine-5-carbonitriles.
- PROCEDE DE PRODUCTION DE 4-HYDROXYTHIENO[2,3-B]PYRIDINE-5-CARBONITRILES.

INVENTOR(S) :
STANDARDIZED: BOSCHELLI DIANE H, US; TUMEY LAWRENCE N, US; WU BIQI, US
- BOSCHELLI DIANE HARRIS, US; TUMEY LAWRENCE NATHAN, US

PATENT ASSIGNEE(S) :
STANDARDIZED: BOSCHELLI DIANE H; TUMEY LAWRENCE N; WU BIQI
- **WYETH CORP, US;** **Look for assignee info in patent family database, e.g., INPAFAMDB.**
LAWRENCE NATHAN

PATENT INFORMATION:

NUMBER	KIND	DATE
US 20080076926	A1	20080327
<u>WO 2008039414</u>	A1	20080403

Assignments at time of publication

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



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3 April 2008 (03.04.2008)

PCT

(10) International Publication Number
WO 2008/039414 A1

(51) International Patent Classification:
C07D 495/04 (2006.01)

(21) International Application Number:
PCT/US2007/020591

(22) International Filing Date:
24 September 2007 (24.09.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/847,334 26 September 2006 (26.09.2006) US
60/856,753 16 August 2007 (16.08.2007) US

(71) Applicant (for all designated States except US): **WYETH**
[US/US]; Five Giralda Farms, Madison, NJ 07940 (US).

(72) Inventors, and

(75) Inventors/Applicants (for US only): **BOSCHELLI, Diane, Harris** [US/US]; 3a Elyse Drive, New City, NY 10956 (US). **TUMEY, Lawrence, Nathan** [US/US]; 562 Shore Drive, New Windsor, NY 12553 (US). **WU, Biqi** [US/US]; 24 Old Middletown Road, Nanuet, NY 10954 (US).

(74) Agents: **STRAHER, Michael, P.** et al.; Wyeth, Patent Law Department, Five Giralda Farms, Madison, NJ 07940 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

Assignee info for this patent family came from WO document.

Who owns it?



US007428680B2

(12) **United States Patent**
Mukherjee et al.

(10) **Patent No.:** **US 7,428,680 B2**
(45) **Date of Patent:** ***Sep. 23, 2008**

(54) **PROGRAMMABLE MEMORY
BUILT-IN-SELF-TEST (MBIST) METHOD
AND APPARATUS**

(76) Inventors: **Nilanjan Mukherjee**, 298028 SW.
Flynn St., Wilsonville, OR (US) 97070;
Xiaogang Du, 29507 SW. Meadows
Loop, Apt. #258, Wilsonville, OR (US)
97070; **Wu-Tung Cheng**, 19030 SW.
35th Pl., Lake Oswego, OR (US) 97034

6,347,056	B1	2/2002	Ledford et al.	
6,415,403	B1	7/2002	Huang et al.	
6,553,527	B1	4/2003	Shephard	
6,567,942	B1	5/2003	Shepard, III	
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6,658,611	B1	12/2003	Jun	
6,671,837	B1	12/2003	Reohr et al.	
6,671,842	B1 *	12/2003	Kobayashi et al.	714/733

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 232 days.

This patent is subject to a terminal disclaimer.

No assignee on the face of the patent.

(21) Appl. No.: **11/283,527**

(22) Filed: **Nov. 18, 2005**

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0 472 818 A 3/1992

Who owns it?

L1 ANSWER 1 OF 1 IFIPAT COPYRIGHT 2008 IFI on STN
AN 04863009 IFIPAT;IFIUDB;IFICDB [Full-text](#)
TI PROGRAMMABLE MEMORY BUILT-IN-SELF-TEST (MBIST) METHOD AND APPARATUS
IN Cheng Wu-Tung; Du Xiaogang; Mukherjee Nilanjan
PA Unassigned Or Assigned To Individual (68000)
PI [US 7428680](#) B2 20080923
[US 20060156134](#) A1 20060713
AI [US 2005-283527](#) 20051118
PRAI [US 2004-629395P](#) 20041118 (Provisional)
[US 2005-733493P](#) 20051104 (Provisional)
FI [US 7428680](#) 20080923
DT Utility; Granted Patent - Utility, with Pre-Grant Publication
FS ELECTRICAL
GRANTED
ED Entered STN: 23 Sep 2008
Last Updated on STN: 23 Sep 2008
CLMN 21
GI 25 Drawing Sheet(s), 40 Figure(s).
FIG. 1 is a schematic diagram of a 2-Input NAND gate.
FIG. 2 is a portion of an address decoder for two address lines.
FIG. 3 is a definition of an exemplary Algorithm Instruction word.
FIG. 3A is a definition of an alternative exemplary Algorithm Instruction

Record found in IFIPAT, but with
no assignee info.

Assignments at time of publication

AN 4863009 IFICLS
PA Cheng, Wu-Tung; Du, Xiaogang; Mukherjee, Nilanjan
PI US 7428680 20080923
DT REASSIGNED
RAI RAD: 20060213
RAK: ASSIGNMENT OF ASSIGNORS INTEREST
PAO: MUKHERJEE, NILANJAN, DATE SIGNED: 02/08/2006 ; DU, XIAOGANG, DATE
SIGNED: 02/08/2006 ; CHENG, WU-TUNG, DATE SIGNED: 02/08/2006
RAC: MENTOR GRAPHICS CORPORATION, 8005 BOECKMAN RD., WILSONVILLE, OREGON,
97070
RAA: DAVID P. PETERSEN, KLARQUIST SPARKS, SUITE 1600, 121 S.W. SALMON STREET,
MRN: 017256 MFN: 0924

In IFICLS, assignment info
found in reassignment field.
Note date of assignment is 2
and ½ years before grant date.

Who owns it?

L1 ANSWER 1 OF 1 IFIPAT COPYRIGHT 2008 IFI on STN
AN 04863009 IFIPAT;IFIUDB;IFICDB [Full-text](#)
TI PROGRAMMABLE MEMORY BUILT-IN-SELF-TEST (MBIST) METHOD AND APPARATUS
IN Cheng Wu-Tung; Du Xiaogang; Mukherjee Nilanjan
PA Unassigned Or Assigned To Individual (68)
PI [US 7428680](#) B2 20080923
[US 20060156134](#) A1 20060713
AI [US 2005-283527](#) 20051118
PRAI [US 2004-629395P](#) 20041118 (Provisional)
[US 2005-733493P](#) 20051104 (Provisional)
FI [US 7428680](#) 20080923
DT Utility; Granted Patent - Utility, with Pre-Grant Publication
FS ELECTRICAL
GRANTED
ED Entered STN: 23 Sep 2008
Last Updated on STN: 23 Sep 2008
CLMN 21
GI 25 Drawing Sheet(s), 40 Figure(s).
FIG. 1 is a schematic diagram of a 2-Input NAND gate.
FIG. 2 is a portion of an address decoder for two address lines.
FIG. 3 is a definition of an exemplary Algorithm Instruction word.
FIG. 3A is a definition of an alternative exemplary Algorithm Instruction

By finding corresponding published application, you may find patent family and assignee(s) for invention.

Who owns it?

L3 ANSWER 1 OF 2 IFIPAT COPYRIGHT 2008 IFI on STN
AN 11207090 IFIPAT;IFIUDB;IFICDB [Full-text](#)
TI Programmable memory built-in-self-test (MBIST) method and apparatus
INF Cheng; Wu-Tung, Lake Oswego, OR, US
Du; Xiaogang, Wilsonville, OR, US
Mukherjee; Nilanjan, Wilsonville, OR, US
IN Cheng Wu-Tung; Du Xiaogang; Mukherjee Nilanjan
PAF Unassigned
PA Unassigned Or Assigned To Individual (68000)
PPA Mentor Graphics Corp (Probable)
AG KLARQUIST SPARKMAN, LLP, 121 S.W. SALMON STREET, SUITE 1600, PORTLAND,
OR, 97204, US
PI [US 20060156134](#) A1 20060713 (CITED IN
AI [US 2005-283527](#) 20051118
PRAI [US 2004-629395P](#) 20041118 (Provisional
[US 2005-733493P](#) 20051104 (Provisional
FI [US 20060156134](#) 20060713
DT Utility; Patent Application - First Publication
FS ELECTRICAL
APPLICATION
ED Entered STN: 13 Jul 2006
Last Updated on STN: 13 Jul 2006

IFI has Probable Patent
Assignee info in their IFIPAT
database.

Who owns it?

L1 ANSWER 1 OF 1 **WPIX** COPYRIGHT 2008 THOMSON REUTERS on STN
AN 2006-577633 [59] WPIX [Full-text](#)
DNN N2006-464803 [59]
TI Programmable memory built-in self test integrated circuit for data processing system, applies test data to selected memory cells, to execute nested loop test algorithms
DC S01; T01; U11; U14
IN CHENG W; DU X; MUKHERJEE N; CHENG W T
PA (CHEN-I) CHENG W; (DUXX-I) DU X; **(MENT-N) MENTOR GRAPHICS CORP;** (MUKH-I) MUKHERJEE N
CYC 112
PI [WO 2006055862](#) A2 20060526 (200659)* EN 163[38]
[US 20060146622](#) A1 20060706 (200659) EN
[US 20060156133](#) A1 20060713 (200659) EN
[US 20060156134](#) A1 20060713 (200659) EN
[EP 1825479](#) A2 20070829 (200757) EN
[JP 2008521159](#) W 20080619 (200843) JA 100
[US 7426668](#) B2 20080916 (200861) EN

DWPI has assignee info for the patent family of US published application.

Who owns it?

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 May 2006 (26.05.2006)

PCT

(10) International Publication Number
WO 2006/055862 A2

(51) International Patent Classification:
G11C 29/00 (2006.01)

(21) International Application Number:
PCT/US2005/042029

(22) International Filing Date:
18 November 2005 (18.11.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/629,395 18 November 2004 (18.11.2004) US
60/733,493 4 November 2005 (04.11.2005) US

(71) Applicant (for all designated States except US): MENTOR GRAPHICS CORPORATION [US/US]; 8005 Sw Boeckman Road, Wilsonville, Oregon 97070-7777 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MUKHERJEE, Nilanjan [IN/US]; 298028 Sw Flynn Street, Wilsonville, Oregon 97070 (US). DU, Xiaogang [CN/US]; 29507 SW Meadows Loop, Apt. #258, Wilsonville, Oregon 97070 (US). CHENG, Wu-tung [US/US]; 19030 SW 35th Palce, Lake Oswego, Oregon 97034 (US).

(74) Agent: PETERSEN, David; Klarquist Sparkman, LLP, One World Trade Center, Suite 1600, 121 SW Salmon Street, Portland, Oregon 97204 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, I, ZW).

FR, G, RO, S, GN, C

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Assignee info for this patent family came from WO document.

Who owns it?

AN 11824573 **INPAFAMDB** UPFB 20080926 UWF 200839 ED 20070830 EW 200735 UP
20080612 UW 200824

DN 54325695

TI VERFAHREN UND VORRICHTUNG FUER EINEN INTEGRIERTEN PROGRAMMIERBAREN
SPEICHER-SELBSTTEST (MBIST).
- PROGRAMMABLE MEMORY BUILT-IN-SELF-TEST (MBIST) METHOD AND APPARATUS.
- PROCEDE ET APPAREIL D'AUTO-TEST INTEGRE DE MEMOIRE PROGRAMMABLE (MBIST).
- Flexible memory built-in-self-test (MBIST) method and apparatus.
- Performing memory built-in-self-test (MBIST).

INS MUKHERJEE NILANJAN, US; DU XIAOGANG, US; CHENG WU-TUNG, US

PAS MENTOR GRAPHICS CORP, US
- MUKHERJEE NILANJAN; DU XIAOGANG; CHENG WU-TUNG
- MUKHERJEE NILANJAN, US; DU XIAOGANG, US; CHENG WU-TUNG, US

PI EP 1825479 A2 20070829
EP 1825479 A4 20080416
JP 2008521159 T 20080619
US 20060156133 A1 20060713
US 20060146622 A1 20060706
US 7426668 B2 20080916
US 20060156134 A1 20060713
WC 2006055862 A2 20060526
WC 2006055862 A3 20060914

AI EP 2005-849415 A 20051118

↑
INPAFAMDB has assignee info
for the patent family of US
published application.

Who owns it?

```
LEGAL STATUS
AN 50215106 INPADOCDB
20041118 USP PRI Provisional application
      US 2004-629395P P 2004
20051104 USP PRI Provisional application
      US 2005-733493P P 2005
20051118 USA PRI Patent application
      US 2005-283527 A 2005
20051118 USA APP Patent application
      US 2005-283527 A 20051118
```

Checking legal status for US published application in INPADOCDB shows assignment data as well. Note date of assignment is 5 months before issue date.

```
20060213 USAS ASSIGNMENT
      MENTOR GRAPHICS CORPORATION, OREGON
      ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MUKHERJEE,
      NILANJAN;DU, XIAOGANG;CHENG, WU-TUNG;
      REEL/FRAME:017256/0924
      20060208
```

```
CHG Change of Owner, Inventor, Applicant
      200718.....20070505
```

```
20060713 USA1 PUB FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]
      US 20060156134 A1 20060713
```

Who owns it?

- ❑ Assignee at time of publication
 - ➔ On the face of the document
 - ➔ Not on the front of document
- ❑ (Re)assignment after publication

Who owns it?



US007238714B2

(12) **United States Patent**
Nakao et al.

(10) **Patent No.:** **US 7,238,714 B2**
(45) **Date of Patent:** **Jul. 3, 2007**

(54) **ARYL OR HETEROARYL AMIDE COMPOUNDS**

FOREIGN PATENT DOCUMENTS

(75) Inventors: **Kazunari Nakao**, Aichi-ken (JP); **Seiji Nukui**, San Diego, CA (US); **Yoshiyuki Okumura**, Aichi-ken (JP); **Tatsuya Yamagishi**, Aichi-ken (JP)

DE	25 00 157 A1	7/1976
DE	27 06 977 A1	8/1978
EP	1 229 034 A1	1/2002
WO	WO 98/45268 A1	10/1998
WO	WO 00/64076 A1	11/2000
WO	WO 03/016	

(73) Assignee: **Pfizer Japan, Inc.**, Shibuya-Ku (JP)

Primary Examiner
(74) Attorney, Agent
Kurlandsky

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 359 days.

(57)

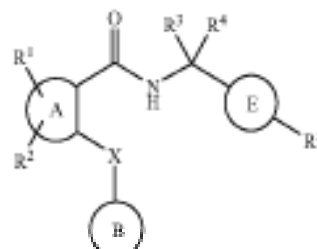
This invention provides a compound of the formula (I):

(21) Appl. No.: **10/932,463**

(22) Filed: **Sep. 2, 2004**

(65) **Prior Publication Data**
US 2005/0065188 A1 Mar. 24, 2005

Related U.S. Application Data
(60) Provisional application No. 60/500,131, filed on Sep. 3, 2003.



Pfizer is the assignee at time of grant. Is it still the assignee today?

Who owns it?

AN 4635139 IFICLS
PA Pfizer Pharmaceuticals Inc JP
PI US 7238714 20070703
DT REASSIGNED
RAI RAD: 20080904
RAK: ASSIGNMENT OF ASSIGNORS INTEREST
PAO: PFIZER INC., DATE SIGNED: 07/25/2008
RAC: RAQUALIA PHARMA INC., 2, AZA 5-GOCHI, TOKETOYO-CHO, CHITA-GUN,,
AICHI-KEN, JAPAN, 470-2341
RAA: SCULLY, SCOTT, MURPHY & PRESSER, P.C., 400 GARDEN CITY PLAZA, SUITE
300, GARDEN CITY, NY 11530
MRN: 021478 MFN: 0096

US reassignment data can be found in the IFICLS database.

Who owns it?

Takes the place of EP1946108 (art.158 of the EPC)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 December 2006 (07.12.2006)

PCT

(10) International Publication Number
WO 2006/130736 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2006/021195

(22) International Filing Date: 1 June 2006 (01.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/142,938 2 June 2005 (02.06.2005) US

(71) Applicant (for all designated States except US): **BAYER HEALTHCARE LLC** [US/US]; Law & Patents Dept., 511 Benedict Avenue, Tarrytown, NY 10591 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NATRAJAN, Anand [US/US]; 77 Madeleine Road, Manchester, NH 03104 (US). JIANG, Quingping [US/US]; 14 Stratton Way, Northborough, MA 01532 (US). SHARPE, David [US/US]; 61 Cross Street, Foxboro, MA 02035 (US). COSTELLO, James [US/US]; 601 Lagrange Street, Boston, MA 02132 (US).

(74) Agent: SEN, Rupa; Bayer Healthcare LLC, Law & Patents Dept., 511 Benedict Ave., Tarrytown, NY 10591 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, SK, SL, SM, SY, T, UZ, VC, VN, YU.

(84) Designated States (kind of regional protection available): GM, KE, LS, MW, ZW, Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published: — without international search report and to be republished

Bayer Healthcare is the assignee at time of issue. Is it still the assignee today?

Who owns it?

```
20060601 WOWW    PRI Additional PCT application
                WO 2006-US21195      WW 20060601
                .....20080724
20060601 EPA     APP Patent application
                EP 2006-771782      A 20060601
                .....20080724
20080723 EPA2    PUB APPLICATION PUBLISHED WITHOUT SEARCH REPORT
                EP 1946108          A2 20080723
                200830.....20080724
20080723 EPAK    + DESIGNATED CONTRACTING STATES:
                EP                    A2
                AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI
                LT LU LV MC NL PL PT RO
                200830.....
20080723 EP17P   + REQUEST FOR EXAMINATION
                20080527
                EXA Examination, Search Report
                200830.....20080724
20080813 EPRAP1  APPLICANT REASSIGNMENT (CORRECTION)
                SIEMENS MEDICAL SOLUTIONS DIAGNOSTICS
                CHG Change of Owner, Inventor, Applicant
                200833.....20080814
```

International reassignment data
can be found in the
INPADOCDB database.

Agenda

Who

What – What kind of coverage?

Where

When

Why

Agenda

Who

What – What kind of coverage?

Countries covered

Document kind codes

Legal status codes and definitions

Where

When

Why

What kind of coverage?

- ❑ What countries are the invention covered in?
 - Consider database content
 - Consider how patent families are “created” in various databases
- ❑ What is the coverage in those countries?
 - Document kind codes
- ❑ What is the current legal status for these documents?

What kind of coverage?

- ❑ INPADOCDB/INPAFAMDB – 81 patenting organizations
- ❑ FamPat – 78 patenting organizations
- ❑ CAPlus – 57 patenting organizations
- ❑ DWPI – 41 patenting organizations

- ❑ Also consider timeliness/updating of each database!

What kind of coverage?

AN 11824573 **INPAFAMDB** UPFB 20080926 UWF 200839 ED 20070830 EW 200735 UP
20080612 UW 200824

DN 54325695

TI VERFAHREN UND VORRICHTUNG FUeR EINEN INTEGRIERTEN PROGRAMMIERBAREN
SPEICHER-SELBSTTEST (MBIST).
- PROGRAMMABLE MEMORY BUILT-IN-SELF-TEST (MBIST) METHOD AND APPARATUS.
- PROCEDE ET APPAREIL D'AUTO-TEST INTEGRE DE MEMOIRE PROGRAMMABLE (MBIST).
- Flexible memory built-in-self-test (MBIST) method and apparatus.
- Performing memory built-in-self-test (MBIST).

INS MUKHERJEE NILANJAN, US; DU XIAOGANG, US; CHENG WU-TUNG, US

PAS MENTOR GRAPHICS CORP, US
- MUKHERJEE NILANJAN; DU XIAOGANG; CHENG WU-TUNG
- MUKHERJEE NILANJAN, US; DU XIAOGANG, US; CHENG WU-TUNG, US

PI EP 1825479 A2 20070829
EP 1825479 A4 20080416
JP 2008521159 T 20080619
US 20060156133 A1 20060713
US 20060146622 A1 20060706
US 7426668 B2 20080916
US 20060156134 A1 20060713
WC 2006055862 A2 20060526
WC 2006055862 A3 20060914
AI EP 2005-849415 A 20051118

Various kind codes for publications.

What kind of coverage?

For current list of country coverage and kind codes for CAPlus, INPADOCDB/INPAFAMDB and DWPI:

http://www.stn-international.com/training_center/patents/pkcodes.pdf

Publication Kind Codes

CAPLUS		INPADOCDB		WPINDEX		Description English
Count	Code	Count	Code	Count	Code	
241146	EPA2	664176	EPA2	445165	EPA2	Publication of application without search report
155907	EPA3	477436	EPA3	90396	EPA3	European search report
		154677	EPA4	32060	EPA4	Supplementary search report (Code on document: A3)
		1309	EPA8	1260	EPA8	Modified first page (from 2001)
102		561	EPA9	743	EPA9	Modified complete specification (from 2001)
				187395	EPB	European patent specification (before DW 1992-20)
328879	EPB1	879958	EPB1	678974	EPB1	European patent specification

Some databases display kind code definitions in record with proper display format.

What kind of coverage?

For current list of country coverage and kind codes for CAPlus, INPADOCDB/INPAFAMDB and DWPI:

http://www.stn-international.com/training_center/patents/pkcodes.pdf

Publication Kind Codes

CAPLUS		INPADOCDB		WPINDEX		Description English
Count	Code	Count	Code	Count	Code	
241146	EPA2	664176	EPA2	445165	EPA2	Publication of application without search report
155907	EPA3	477436	EPA3	99996	EPA3	European search report
		154677	EPA4	32060	EPA4	Supplementary search report (Code on document: A3)
		1309	EPA8	1260	EPA8	Modified first page (from 2001)
102		561	EPA9	743	EPA9	Modified complete specification (from 2001)
				187395	EPB	European patent specification (before DW 1992-20)
328879	EPB1	879958	EPB1	678974	EPB1	European patent specification

Some databases display kind code definitions in record with proper display format.

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- ❑ What countries are the invention covered in?
 - Consider how patent families are “created” in various databases
- ❑ What is the coverage in those countries?
 - Document kind codes
- ❑ What is the current legal status for these documents?

What kind of coverage?

- ❑ What can legal status tell searcher?
 - Where in patenting process the invention is
 - ➔ Examination, search report, grant
 - Who owns it
 - ➔ Assignment data
 - If the patent still in force
 - ➔ Lapse, expiry, reinstatement

What kind of coverage? (con't)

- What can legal status tell searcher?
 - Scope of protection
 - Opposition, reexamination
 - Supplementary protection

What kind of coverage?

AN 11824573 **INPAFAMDB** UPFB 20080926 UWF 200839 ED 20070830 EW 200735 UP
20080612 UW 200824

DN 54325695

TI VERFAHREN UND VORRICHTUNG FUeR EINEN INTEGRIERTEN PROGRAMMIERBAREN
SPEICHER-SELBSTTEST (MBIST).

- PROGRAMMABLE MEMORY BUILT-IN-SELF-TEST (MBIST) METHOD AND APPARATUS.
- PROCEDE ET APPAREIL D'AUTO-TEST INTEGRE DE MEMOIRE PROGRAMMABLE (MBIST).
- Flexible memory built-in-self-test (MBIST) method and apparatus.
- Performing memory built-in-self-test (MBIST).

INS MUKHERJEE NILANJAN, US; DU XIAOGANG, US; CHENG WU-TUNG, US

PAS MENTOR GRAPHICS CORP, US

- MUKHERJEE NILANJAN; DU XIAOGANG; CHENG WU-TUNG
- MUKHERJEE NILANJAN, US; DU XIAOGANG, US; CHENG WU-TUNG, US

PI EP 1825479 A2 20070829
EP 1825479 A4 20080416
JP 2008521159 T 20080619
US 20060156133 A1 20060713
US 20060146622 A1 20060706
US 7426668 B2 20080916
US 20060156134 A1 20060713
WC 2006055862 A2 20060526
WC 2006055862 A3 20060914

AI EP 2005-849415 A 20051118

Nine different publications
in this patent family.

What kind of coverage?

There are 37 legal status entries for this patent family.

```
LEGAL STATUS
AN      11824573  INPAFAMDB
20041118  USP      PRI Provisional application
          US 2004-629395P      P  20041118
          .....20070830
20051104  USP      PRI Provisional application
          US 2005-733493P      P  20051104
          .....20070830
20051118  USA      PRI Patent application
          US 2005-282938      A  20051118
20051118  USA      PRI Patent application
          US 2005-283499      A  20051118
          .....20080926
20051118  USA      PRI Patent application
          US 2005-283527      A  20051118
20051118  WOWW     PRI Additional PCT application
          WO 2005-US42029     WW 20051118
          .....20070830
20051118  EPA      APP Patent application
          EP 2005-849415      A  20051118
```

Agenda

Who

What

Where – Where to find legal status information?

When

Why

Where to find legal status information?

National/International patent offices, E.G.,

PAIR page

<http://portal.uspto.gov/external/portal/pair>

Esp@cenet

<http://ep.espacenet.com>

INPADOCDB/INPAFAMDB

EPFULL

IFI CLAIMS Legal Status (IFICLS)

What kind of coverage?

❑ INPADOC Legal Status information

- Covers 51 patent authorities for legal status
- Legal status coverage starts in 1978
 - ➔ Some vendors standardize/edit/correct data
- Over 2600 legal status codes
 - ➔ Some vendors (STN, Questel) have included legal status code categories to simplify legal status searches

What kind of coverage?

❑ EPFULL's Legal Status

- Legal Status Register data of the EPO with a lot of detailed information about European publications
- Legal Information about opponents and licenses are searchable in much more detail than in INPADOC
- Can search for applications which will be granted in the next weeks ("intention to grant")
 - ➔ Gives you more time to prepare oppositions

What kind of coverage?

```
LEGAL STATUS
AN 56900962 INPADOCDB
20070222 DEA PRI Patent application
                DE 2007-102007009244 A 20070222
                .....20080828
20080219 EPA APP Patent application
                EP 2008-3004 A 20080219
                .....20080828
20080827 EPA1 PUB APPLICATION PUBLISHED WITH SEARCH REPORT
                EP 1962105 A1 20080827
                200835.....20080828
20080827 EPAK + DESIGNATED CONTRACTING STATES:
                EP A1
                AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT
                LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR
                200835.....20080828
20080827 EPAX + EXTENSION OF THE EUROPEAN PATENT TO
                AL BA MK RS
                200835.....20080828
20080827 EP17P + REQUEST FOR EXAMINATION FILED
                20080703
```

What kind of coverage?

LEGAL STATUS INCLUDING HISTORY

AN 2008:5322 **EPFULL** [Full-text](#)

20080827 EPB053EP Additional remark
Geaenderte Patentansprueche gemaess Regel 137(2) EPUE.
.....20080827

20080827 EPB241 Request for examination
20080703
.....20080827

20080827 EPB430 Unexamined document without grant, (first publication)
20080827
.....20080827

20080827 EPB840 Designated contracting states
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI
LT LU LV MC MT NL NO PL PT RO SE SI SK TR
[EP 1962105](#) A1 20080827
.....20080827

20080827 EPB844EP Extension of the European patent to
AL BA MK RS
.....20080827

20081001 EPB452EP Intention to grant
20080904
.....20081001

Agenda

Who

What

Where

When – When is information made available?

Why

When is information made available?

- ❑ Different patenting organizations deliver data to EPO/INPADOC
 - Each organization has their own pipeline for delivering data
 - Data has to be collated, checked for errors and formatted
 - Data is then sent out to vendors
 - ➔ Each vendor has their own timetable for loading data
 - Remember that each database is only as good as the data it is built on!

Agenda

Who

What

Where

When

Why - ?

Why?

Who owns it?

Scope of protection?

Patent term?

Why?

- ❑ Competitive intelligence
- ❑ Technology intelligence
- ❑ Monitor patent portfolio
 - Consider SDIs/Alerts to keep up-to-date
 - Consider adding/editing search strategies
 - ➔ Searching assignees in legal status fields as well as normal assignee fields

Summary

- ❑ Legal status is available in many places/times
 - Consider each database's content/coverage
 - Consider database updates
 - ➔ SDIs/Alerts
 - Consider database concept of “patent family”
 - Consider vendors/producers use of standardized legal status codes

Thank you!



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