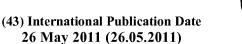
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau







(10) International Publication Number WO 2011/063150 A3

(51) International Patent Classification:

A61K 31/4439 (2006.01) A61K 9/14 (2006.01) A61P 3/04 (2006.01) A61K 31/44 (2006.01) A61K 9/20 (2006.01) A61P 3/00 (2006.01)

(21) International Application Number:

PCT/US2010/057280

(22) International Filing Date:

18 November 2010 (18.11.2010)

(25) Filing Language:

English

(26) Publication Language:

English

US

(30) Priority Data:

61/263,274 20 November 2009 (20.11.2009)

- (71) Applicant (for all designated States except US): HANDA PHARMACEUTICALS, LLC [US/US]; 39465 Paseo Padre Parkway, Suite 2600, Fremont, CA 94538 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHEN, Zhiqun [CN/CN]; Room 502, Unit 1, Building 21 Shihuiqiao, Xincun, Xihu District, Hangzhou, Zhejiang (CN). ZHANG, Yu [CN/CN]; Room 37-1-501, Section 1, Cuiyuan Xihu District, Hangzhou, Zhejiang (CN). FU, Enjun [—/CN]; Room 16-3-601, Bazhangjing Xincun, Gongshu District, Hangzhou, Zhejiang (CN). HE, Min, Michael [US/US]; 8209 Michaels Rdg, Ellicott City, MD 21043 (US). LIU, Fang-yu [US/US]; 30209 Aragon Place, Union City, CA 94587 (US).

- (74) Agent: MALLON, Joseph, J.; Knobbe Martens Olson & Bear LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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 regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV. MC. MK. MT. NL. NO. PL. PT. RO. RS. SE. SI. SK. SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

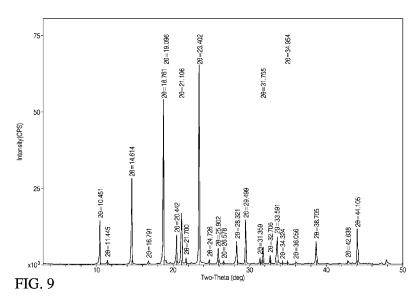
of inventorship (Rule 4.17(iv))

Published:

with international search report (Art. 21(3))

[Continued on next page]

(54) Title: ORAL FORMULATION FOR DEXLANSOPRAZOLE



(57) Abstract: A stable formulation of dexlansoprazole for treating a digestive disorder, and methods of manufacturing the same.





 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report: 15 September 2011

International application No. **PCT/US2010/057280**

A. CLASSIFICATION OF SUBJECT MATTER

A61K 31/4439(2006.01)i, A61K 31/44(2006.01)i, A61K 9/20(2006.01)i, A61K 9/14(2006.01)i, A61P 3/04(2006.01)i, A61P 3/04(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) A61K 31/4439: A61K31/44: A61K 9/20: A61K 9/14: A61P 3/04: A61P 3/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS (KIPO internal), NCBI (PubMed, MeSH)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0263475 A1 (NAGARAJU MANNE et al.) 22 October 2009 See pp. 1-3 and 7; examples 1 and 13; claims; abstract	1-3,20-22,25-27,29,30
X	US 05433959 A (TADASHI MAKINO et al.) 18 July 1995 See cloumns 1-2 and 10; example 3; experimental example 1n; abstract	1-3,20-22,25-27,29,30
A	WO 2009-117489 A1 (DR. REDDY`S LABORATORIES LTD. et al.) 24 September 2009 See the whole document	1-3,20-22,25-27,29,30
A	US 2004-0048896 A1 (JEFFREY OWEN PHILLIPS) 11 March 2004 See the whole document	1-3,20-22,25-27,29,30
А	US 06132771 A (HELEN DEPUI et al.) 17 October 2000 See the whole document	1-3,20-22,25-27,29,30

 \boxtimes s

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- earlier application or patent but published on or after the international filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- 'O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
11 JULY 2011 (11.07.2011)

Date of mailing of the international search report

12 JULY 2011 (12.07.2011)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SUNG Sun Young

Telephone No. 82-42-481-8405



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2010/057280

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This interna	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
beo T Ii	taims Nos.: 31 cause they relate to subject matter not required to be searched by this Authority, namely: the claim pertains to a method for treatment of the human body by therapy, and thus relates to a subject matter which this international Searching Authority is not required, under Article 17(2)(a)(I) of the PCT and Rule 39.1(iv) of the Regulations ander the PCT, to search.
bec ext	aims Nos.: 13, 18 cause they relate to parts of the international application that do not comply with the prescribed requirements to such an ent that no meaningful international search can be carried out, specifically:
C	laims 13 and 18 are unsearchable because they are worded in reference to multiple dependant claims.
	aims Nos.: 4-12, 14-17, 19, 23, 24, 28, 31 cause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Interna	tional Searching Authority found multiple inventions in this international application, as follows:
	all required additional search fees were timely paid by the applicant, this international search report covers all searchable ims.
	all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
	only some of the required additional search fees were timely paid by the applicant, this international search report covers y those claims for which fees were paid, specifically claims Nos.:
	required additional search fees were timely paid by the applicant. Consequently, this international search report is tricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark or	The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/057280

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0263475 A1	22.10.2009	US 2009-263475 A1	22. 10. 2009
US 05433959 A	18.07.1995	None	
WO 2009-117489 A1	24.09.2009	CA 2717578 A1 CN 101977909 A EP 2265605 A1 US 2011-0028518 A1	24.09.2009 16.02.2011 29.12.2010 03.02.2011
US 2004-0048896 A1	11,03,2004	AU 2000-19071 A1 AU 2001-32767 A1 AU 2002-330863 B2 AU 2003-212685 A1 AU 2003-214858 B8 CA 2396159 A1 CA 2453117 A1 CA 2473669 A1 CA 2594185 A1 CN 1551768 A CN 1666259 A EP 1246622 B1 EP 1414452 A1 EP 1538908 A2 EP 1927354 A1 EP 2201952 A1 EP 2305259 A1 JP 2003-519656 A JP 2004-521955 A JP 2005-526344 A JP 2007-277271 A KR 10-0679767 B1 KR 10-0739671 B1 KR 10-2004-0047771 A KR 10-2004-0099265 A TW 221285 A US 05840737A A US 2003-0118669 A1 US 2003-0118669 A1 US 2003-0144306 A1 US 2003-215527 A1 US 2004-0058018 A1 US 2004-0058018 A1 US 2004-0171646 A1	22.05.2000 24.07.2001 31.05.2007 02.12.2003 02.09.2003 21.02.2008 19.07.2001 06.02.2003 31.07.2003 19.07.2001 01.12.2004 07.09.2005 09.10.2002 27.09.2006 06.05.2004 23.06.2004 16.02.2005 15.06.2005 04.06.2008 30.06.2010 06.04.2011 24.06.2003 22.07.2004 07.07.2005 02.09.2005 25.10.2007 07.02.2007 13.07.2007 05.06.2004 26.11.2004 21.09.2004 24.11.1998 18.04.2002 26.06.2003 31.07.2003 20.11.2003 09.10.2003 20.11.2003 09.10.2003 25.03.2004 02.09.2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/057280

Patent document cited in search report	Publication date	Patent family	Publication
		member(s)	date
		US 2005-0004171 A1 US 2005-0042304 A1 US 2005-0054682 A1 US 2006-0291337 A1 US 6489346 B1 US 6645988 B2 US 6699885 B2 US 6780882 B2 US 7167437 B2 US 7399772 B2 US 7782740 B2 WO 2000-26185 A2 WO 2001-51050 A1 WO 2003-009846 A1 WO 2003-061584 A2	06.01.2005 24.02.2005 10.03.2005 28.12.2006 03.12.2002 11.11.2003 02.03.2004 24.08.2004 23.01.2007 15.07.2008 24.08.2010 11.05.2000 19.07.2001 06.02.2003 31.07.2003
US 06132771 A	17.10.2000	WU 2003-081364 A2 WU 2003-098608 A1 AU 1997-13240 B2 CA 2214033 C CN 1142792 CO CN 1183049 AO EP 0814840 A1 EP 0814840 B1 JP 11-501949 A KR 10-0486057 B1	27.11.2003 27.11.2003 11.11.1999 10.01.2006 24.03.2004 27.05.1998 07.01.1998 20.11.2002 16.02.1999 08.09.2005