

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 December 2007 (21.12.2007)

PCT

(10) International Publication Number
WO 2007/146006 A3

(51) International Patent Classification:
A61K 31/485 (2006.01) A61K 9/22 (2006.01)

(21) International Application Number:
PCT/US2007/013339

(22) International Filing Date: 5 June 2007 (05.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/447,560 6 June 2006 (06.06.2006) US

(71) Applicant (for all designated States except US): **ENDO PHARMACEUTICALS INC.** [US/US]; 100 Endo Boulevard, Chadds Ford, PA 19317 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KAO, Huai-Hung** [US/US]; 137 Colony Lane, Syosset, NY 11791 (US). **CHANG, Sou-Chan** [US/US]; 162 Park Avenue, Babylon, NY 11702 (US). **ZENG, Yadi** [US/US]; 813 Glen Road, Fort Lee, NJ 07024 (US). **JIM, Fai** [US/US]; 865 Willow Road, Franklin Square, NY 11010 (US).

(74) Agent: **DONATIELLO, Guy T.**; Endo Pharmaceuticals Inc., 100 Endo Boulevard, Chadds Ford, PA 19317 (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 regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, 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, MT, 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).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

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

(88) Date of publication of the international search report:
27 March 2008

(54) Title: SUSTAINED RELEASE OXYCODONE COMPOSITION WITH ACRYLIC POLYMER AND A SURFACTANT

(57) Abstract: The invention is a controlled release composition comprising a therapeutic amount of an active ingredient in a controlled release matrix. The matrix comprises a combination of a pharmaceutically acceptable acrylic polymer and a metal hydroxide. The amount of surfactant, relative to a given amount of acrylic polymer, is selected for and corresponds to a pre-determined release rate for said active ingredient. The compound is preferably used to provide controlled release dosage of oxycodone through a matrix of ammonio methacrylic polymer and sodium lauryl sulfate.



WO 2007/146006 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/013339A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K31/485 A61K9/22

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

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/100382 A (ENDO PHARMACEUTICALS INC [US]; KAO HUAI-HUNG [US]; ZENG YADI [US]; JIM) 19 December 2002 (2002-12-19) the whole document	1-21
X	US 2006/110327 A1 (EMIGH JAMES F [US] ET AL) 25 May 2006 (2006-05-25) paragraphs [0050] - [0052], [0073], [0093], [0153], [0169] - [0172]; claims 34,35; examples 45-47	1-21
X	US 2003/068375 A1 (WRIGHT CURTIS [US] ET AL) 10 April 2003 (2003-04-10) paragraphs [0056] - [0059], [0069] - [0071], [0173]; claims 1-10,15; examples 1,2,9,13-16	1-21

 Further documents are listed in the continuation of Box C. 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

E earlier document 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 another 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

31 January 2008

Date of mailing of the international search report

08/02/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rauter, Anton

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/013339

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 02100382	A	19-12-2002	CA 2449519 A1	19-12-2002
			CN 1514722 A	21-07-2004
			EP 1392250 A2	03-03-2004
			JP 2004534056 T	11-11-2004

US 2006110327	A1	25-05-2006	US 2006177380 A1	10-08-2006

US 2003068375	A1	10-04-2003	NONE	
