

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 January 2002 (31.01.2002)

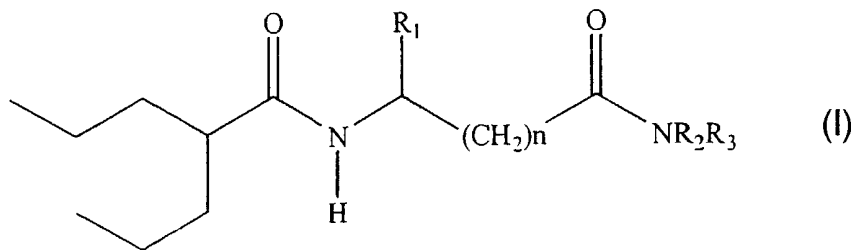
PCT

(10) International Publication Number
WO 02/07677 A3

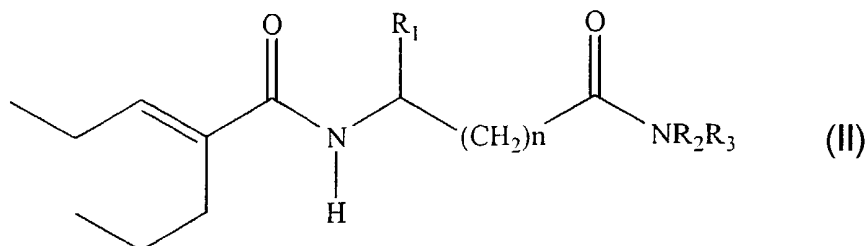
- (51) International Patent Classification⁷: A61K 38/00
- (21) International Application Number: PCT/US01/23116
- (22) International Filing Date: 20 July 2001 (20.07.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/220,102 21 July 2000 (21.07.2000) US
- (71) Applicants (for all designated States except BB, US):
TEVA PHARMACEUTICAL INDUSTRIES, LTD.
[IL/IL]; 5 Basel Street, P.O. Box 3190, 49131 Petah
Tiqva (IL). YISSUM RESEARCH DEVELOPMENT
COMPANY OF THE HEBREW UNIVERSITY OF
JERUSALEM [IL/IL]; 36 Jabotinsky Street, 91042
Jerusalem (IL).
- (71) Applicant (for BB only): TEVA PHARMACEUTICAL
USA, INC. [US/US]; 1090 Horsham Road, North Wales,
PA 19454 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHIRVAN, Mitchell
[IL/IL]; 3 Ha'absor, Apt. #2, Hertzleya (IL). BIALER,
Meir [IL/IL]; 36 Hehalutz Street, 96222 Jerusalem (IL).
- (74) Agent: WHITE, John, P.; Cooper & Dunahm LLP, 1185
Avenue of the Americas, New York, NY 10036 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG).

[Continued on next page]

(54) Title: USE OF DERIVATIVES OF VALPROIC ACID AND 2-VALPROENIC ACID AMIDES FOR THE TREATMENT OF MANIA IN BIPOLAR DISORDER



or



(57) Abstract: A method for the treatment of mania in bipolar disorder using derivatives of valproic acid and 2-valproenic acid amines having the following structures: wherein R₁, R₂, and R₃ are independently the same or different and are hydrogen, a C₁-C₆ alkyl group, an aralkyl group, or an aryl group, and n is an integer which is greater than or equal to 0 and less than or equal to 3, or a compound containing a valproic or a 2-valproenic moiety, as well as pharmaceutical compositions comprising these derivatives or compounds.





Published:

— with international search 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.

(88) Date of publication of the international search report:

30 May 2002

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/23116

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/00
US CL : 514/19

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)

U.S. : 514/19

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 5,585,358 A(BIALER et al.) 17 December 1996 (17.12.96), see entire document.	1-17

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"I"	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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier document published on or after the international filing date	"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
"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)	"Z"	document member of the same patent family
"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		

Date of the actual completion of the international search 30 AUGUST 2001	Date of mailing of the international search report 14 JAN 2002
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer <i>James Ford</i> RAYMOND J. HENLEY III Telephone No. (703) 308-1235