(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 8 December 2005 (08.12.2005)

(51) International Patent Classification:

A61K 9/00 (2006.01) A61K 9/38 (2006.01) A61K 9/20 (2006.01) A23J 1/04 (2006.01)

(21) International Application Number:

PCT/IL2005/000545

(22) International Filing Date: 26 May 2005 (26.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/574,208 26 May 2004 (26.05.2004)

(71) Applicant (for all designated States except US): Ben-Gurion University of the Negev Research and Development Authority [IL/IL]; P.O.Box 653, 84105 Beer-Sheva (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SAGI, Amir [IL/IL]; 68 Eshel St., 84965 Omer (IL). BERMAN, Amir [IL/IL]; 20 Sigalon St., 84965 Omer (IL).

(74) Agents: Pyernik Rutman et al.; Beit Etzion, 91 Herzl St., P.O.Box 10012, 84106 Beer-Sheva (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, (10) International Publication Number WO 2005/115414 A3

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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, 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, 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, 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:

- 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:

14 June 2007

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.



(54) Title: ORALLY-ADMINISTRABLE COMPOSITIONS COMPRISING STABLE AMORPHOUS CALCIUM CARBONATE

(57) Abstract: The present invention provides orally-administrable compositions comprising stable amorphous calcium carbonate (ACC). The compositions are preferably prepared as solid dosage forms such as tablets, capsules and powders. The present invention further provides methods for supplementing oral calcium intake in subjects as well as methods for treating osteoporosis, osteomalacia and related diseases.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00545

A. CLASSIFICATION OF SUBJECT MATTER IPC: A61K 9/00(2006.01),9/20(2006.01),9/38(2006.01); A23J 1/04(2006.01)				
- -	2000.0			
USPC: 424/464,477;260/122				
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.: 424/464,477; 260/122				
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) WEST, NPL (SCIRUS), USPTO-FULL TEXT, WIPO, EPO, PALM.				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.	
X	US 6,569,472 B1 (ZYCK et al.) 27 May 2003 (27.	05.2003), entire document especially	1, 12-13, 19, 21-23	
Y	columns 2, 4.		2-11, 14-18, 20	
Y	Y US 4,199,496 A (PENISTON et al.) 22 April 1980 (22.04.1980), entire document especailly abstract, columns 2-4 and 7.		2-11, 14-18 and 20	
	especially abstract, commis 2-4 and 7.	Ì		
Further	documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "T"			later document published after the international filing date or priority date and not in conflict with the application but cited to understand the	
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inven		
"E" document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventive when the document is taken alone				
"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)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the		
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
19 March 2007 (19.03.2007) Name and mailing address of the ISA/US Authorized officer Authorized officer				
Mail Stop PCT, Attn: ISA/US		Alway Sulland		
Commissioner for Patents P.O. Box 1450		1/ 00 - 1		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Teléphone No. 571-272-0600				
racsumie No	. (3/1) 2/3-3201			

Form PCT/ISA/210 (second sheet) (April 2005)