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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 March 2002 (14.03.2002)

PCT

(10) International Publication Number
WO 02/20040 A1

(51) International Patent Classification[7]: A61K 39/00

(21) International Application Number: PCT/KR01/01492

(22) International Filing Date:
4 September 2001 (04.09.2001)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
2000/0052055 4 September 2000 (04.09.2000) KR
2001/0054005 4 September 2001 (04.09.2001) KR

(71) Applicant and
(72) Inventor: KIM, Hyo-Joon [KR/KR]; 3-1001, Sunkyung APT, Sungpo-dong, 425-040 Ansan (KR).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: JOUNG, Hae-Jung [KR/KR]; 299-10, Chonho4-Dong, Gangdong-Gu, 134-024 Seoul (KR).

(74) Agent: SEO, Keun-Bok; 1003ho, Sungji Heights III Bldg., 642-6, Yeoksam-dong, Gangnam-ku, 135-080 Seoul (KR).

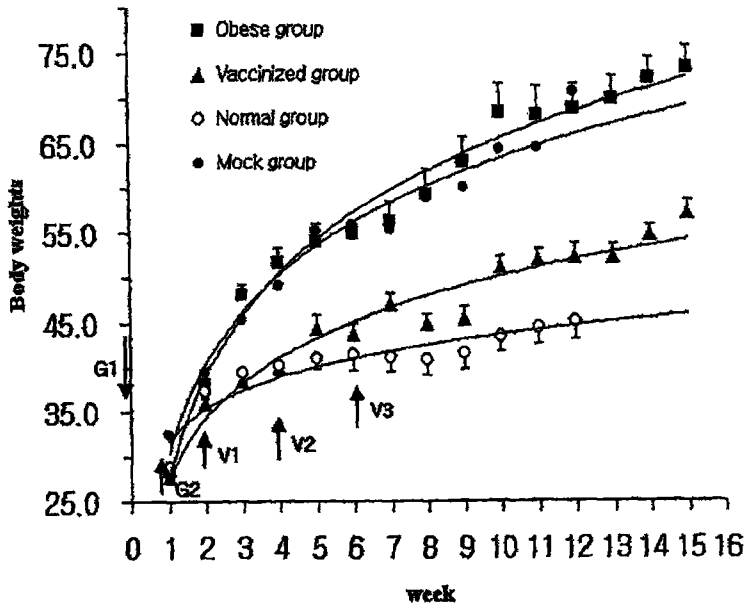
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, 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).

Declaration under Rule 4.17:
— *as to non-prejudicial disclosures or exceptions to lack of novelty (Rule 4.17(v)) for all designations*

[Continued on next page]

(54) Title: MIMETIC PEPTIDES FOR EPITOPE OF APOLIPOPROTEIN B-100, CONCATEMER AND MODIFIED PEPTIDES THEREOF, AND THE VACCINE COMPOSITION COMPRISING THE SAME



(57) Abstract: The present invention relates to vaccine compositions for treatment of obesity. More particularly, the present invention is directed to mimetic for epitope of apolipoprotein B-100, concatemer and modified peptides thereof, and the vaccine composition comprising the same.

WO 02/20040 A1

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*
— *with a declaration as to non-prejudicial disclosures or exceptions to lack of novelty*

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.