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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 July 2011 (07.07.2011)

PCT

(10) International Publication Number
WO 2011/081862 A1

(51) International Patent Classification:
A61K 8/365 (2006.01) *A61K 8/92* (2006.01)
A61K 8/49 (2006.01) *A61Q 7/00* (2006.01)
A61K 8/67 (2006.01) *A61K 8/36* (2006.01)

(21) International Application Number:
PCT/US2010/060005

(22) International Filing Date:
13 December 2010 (13.12.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/638,142 15 December 2009 (15.12.2009) US

(71) Applicant *(for all designated States except US)*: **MCNEIL-PPC, INC.** [US/US]; 199 Grandview Road, Skillman, NJ 08558 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **HU, Longsheng** [US/US]; 17 Boxwood Road, Piscataway, NJ 08854 (US). **GOLDMAN, Virginia, Streusand** [US/US]; 34 Arlington Avenue, Morris Plains, NJ 07950 (US). **MINERVA, Josephine, A.** [US/US]; 49 Knoll Road, Parsippany, NJ 07054-1445 (US). **WENDLING, Susan** [US/US]; 250 River Road, Annandale, NJ 08801 (US).

(74) Agents: **JOHNSON, Philip, S.** et al.; JOHNSON & JOHNSON, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (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:

— *as to the identity of the inventor (Rule 4.17(i))*

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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

— *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))*

WO 2011/081862 A1

(54) Title: METHODS OF REDUCING HAIR LOSS AND / OR FACILITATING HAIR GROWTH AND / OR REGROWTH

(57) Abstract: The present disclosure relates to methods of retarding hair loss or facilitating hair growth and/or regrowth. More specifically, the present disclosure relates to methods of using the disclosed compositions to increase the rate of terminal hair growth and/or regrowth in a mammal.