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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 January 2003 (09.01.2003)

PCT

(10) International Publication Number
WO 03/002175 A3

(51) International Patent Classification[7]: A61M 5/158, A61K 38/28, 38/27, 31/727, 38/19, A61N 1/30, A61M 37/00

(21) International Application Number: PCT/US01/50862

(22) International Filing Date:
26 December 2001 (26.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/897,801 29 June 2001 (29.06.2001) US

(71) Applicant *(for all designated States except US)*: **PHARMACIA CORPORATION** [US/US]; Corporated Patent Dept., 800 N. Lindbergh Boulevard, Mail Zone 04E, St. Louis, MI 63167 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **PINKERTON, Thomas, C.** [US/US]; 2400 Ridgeview Drive, Kalamazoo, MI 49008 (US).

(74) Agents: **HOLLAND, Donald, R.** et al.; Harness, Dickey & Pierce, P.L.C., 7700 Bonhomme, Suite 400, St. Louis, MO 63105 (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, ZM, 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:
— *of inventorship (Rule 4.17(iv)) for US only*

Published:
— *with international search report*

(88) Date of publication of the international search report:
20 March 2003

(48) Date of publication of this corrected version:
10 July 2003

(15) Information about Correction:
see PCT Gazette No. 28/2003 of 10 July 2003, Section II

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.

WO 03/002175 A3

(54) Title: ENHANCED SYSTEMIC ABSORPTION OF INTRADERMALLY DELIVERED SUBSTANCES

(57) Abstract: A method for administration of a substance into the dermis of a mammal is disclosed. The method involves administration into the dermis by injection which results in improved systemic absorption relative to that obtained upon subcutaneous administration of the substance. The substance administered may be a growth hormone, alow molecular weight heparin or a dopamine receptor agonist.