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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 April 2011 (21.04.2011)

PCT

(10) International Publication Number
WO 2011/047298 A2

(51) International Patent Classification:
*A61M 5/32* (2006.01) *A61M 5/20* (2006.01)

(21) International Application Number:
PCT/US2010/052894

(22) International Filing Date:
15 October 2010 (15.10.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/252,378 16 October 2009 (16.10.2009) US
61/361,983 7 July 2010 (07.07.2010) US

(71) Applicant *(for all designated States except US)*: **CENTOCOR ORTHO BIOTECH INC.** [US/US]; 800/850 Ridgeview Drive, Horsham, PA 19044 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **OLSON, Lorin, P.** [US/US]; 1230 Mount Herman Road, Scotts Valley, CA 95066 (US). **KRULEVITCH, Peter** [US/US]; 1122 Division Street, Pleasanton, CA 94566 (US). **GLENCROSS, James** [GB/GB]; 17/1 Links Gardens, Edinburgh, Lothian EH6 7JG (GB). **WANG, Jingli** [US/US]; 6102 Rainbow Drive, San Jose, CA 95129 (US). **FOLEY, Nicholas** [GB/GB]; 6 Afton Place, Edinburgh, Midlothian EH5 3RB (GB). **ZHAO, Mingqi** [US/US]; 1304 Payette Court, San Jose, CA 95129 (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,

*[Continued on next page]*

(54) Title: PALM ACTIVATED DRUG DELIVERY DEVICE

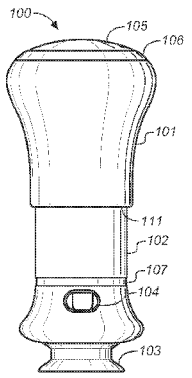



FIG. 1A

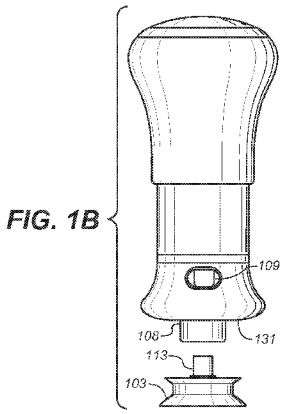



FIG. 1B

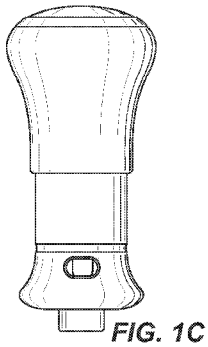


FIG. 1C

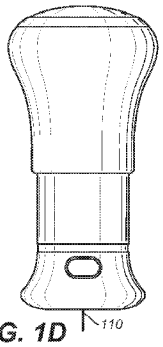



FIG. 1D

(57) Abstract: Disclosed is a device for the parenteral delivery of a medication, such as a drug. The device includes upper and lower housings in which the upper housing is configured to move relative to the lower housing as a result of application of an external force to permit the user of the device to control the rate at which the drug is administered.

WO 2011/047298 A2

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**:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*