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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/032628 A1

(51) International Patent Classification[7]: A61M 5/315, 25/00

(21) International Application Number:
PCT/US2004/028752

(22) International Filing Date:
3 September 2004 (03.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/668,725 23 September 2003 (23.09.2003) US

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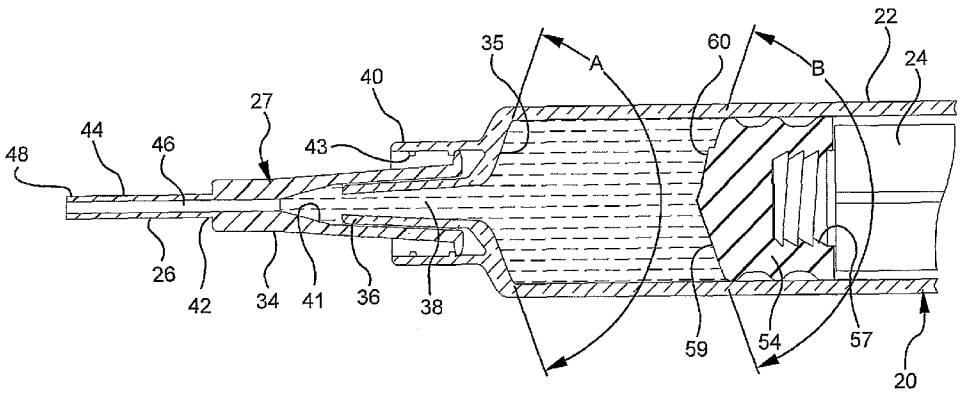
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, IT, 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*

[Continued on next page]

(54) Title: FLUSH SYRINGE HAVING ANTI-REFLUX STOPPER



(57) Abstract: An I.V. flush syringe (20) assembly includes a barrel (22) having an inside surface (32) defining a chamber (33) for retaining fluid, an open proximal end (28) and a distal end (30) including a distal wall (31) with an elongate tip (36) extending distally therefrom having a passageway (38) therethrough in fluid communication with the chamber (33). A plunger (24) having an elongate body portion (25) and a stopper (54) slidably positioned in fluid-tight engagement with the inside surface (32) of the barrel (22) is provided. Anti-reflux structure for controlling stopper deflection when fluid has been delivered from the chamber (33) and the stopper (54) is in contact with the distal wall (31) is provided. The anti-reflux structure includes the stopper (54) having a conically shaped distal surface (59) and the inside surface (32) of the barrel (22) and the distal wall (31) being conically shaped (35) wherein the total included angle A of the inside surface (32) of the barrel (22) at the distal wall (31) is greater than the total included angle B of the distal surface (59) of the stopper (54) by at least 6°.

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