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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 December 2008 (18.12.2008)

PCT

(10) International Publication Number
WO 2008/154615 A1

(51) International Patent Classification:
A61M 5/50 (2006.01)

(21) International Application Number:
PCT/US2008/066651

(22) International Filing Date: 12 June 2008 (12.06.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/943,421 12 June 2007 (12.06.2007) US

(71) Applicant *(for all designated States except US)*: **BECTON, DICKINSON AND COMPANY** [US/US]; 1 Becton Drive - MC 89, Franklin Lakes, New Jersey 07417-1880 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **CAIZZA, Richard, J.** [US/US]; One Cherry Tree Road, Vernon, New Jersey 07462 (US).

(74) Agent: **SERVILLA, Scott S.**; Diehl Servilla LLC, 77 Brant Avenue, Suite 210, Clark, New Jersey 07066 (US).

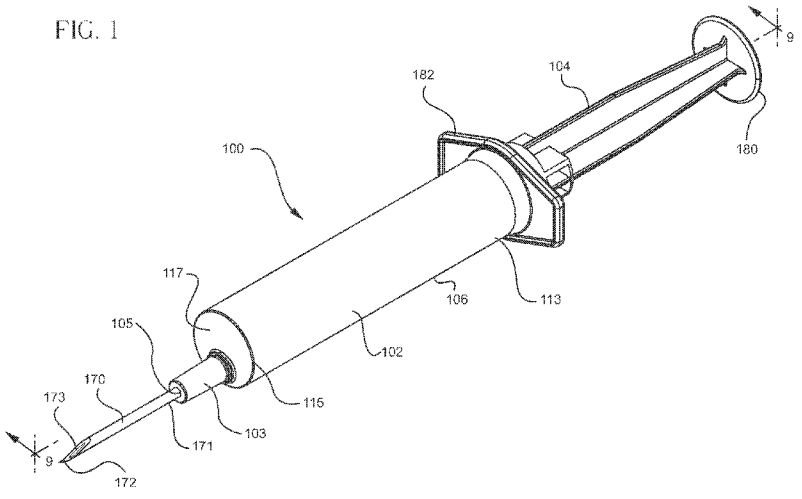
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, 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*

(54) Title: SYRINGE ASSEMBLY INCLUDING REUSE PREVENTION MECHANISM

FIG. 1



(57) Abstract: A syringe assembly (100) having passive disabling structure includes a barrel (102) and a plunger rod assembly. The plunger rod assembly includes a plunger rod (108) and a stopper (128) connected by an indexing locking element. The number of strokes of the syringe plunger before the stopper is locked into the barrel rendering the syringe assembly unusable is determined by the number of detents on the plunger rod and stopper which engage the locking mechanism (130). Upon completion of the final delivery stroke, any attempt to withdraw the plunger rod from the barrel will cause the locking element (130) to engage the barrel and trap the stopper (128) in the barrel preventing further use of the syringe.

WO 2008/154615 A1