



(51) International Patent Classification:
A61M 5/50 (2006.01) *A61M 5/31* (2006.01)

(21) International Application Number:
PCT/US2011/051947

(22) International Filing Date:
16 September 2011 (16.09.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/885,842 20 September 2010 (20.09.2010) US

(71) Applicant (for all designated States except US): **BECTON, DICKINSON AND COMPANY** [US/US]; 1 Becton Drive, MC 110, Franklin Lakes, New Jersey 07417-1880 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CAIZZA, Richard J.** [US/US]; One Cherry Tree Road, Vernon, New Jersey 07462 (US). **ODELL, Robert B.** [US/US]; 357 Pulis Avenue, Franklin Lakes, New Jersey 07417 (US). **WAYMAN, Brian H.** [US/US]; 27 Sherman Ave., Morris Plains, New Jersey 07950 (US).

(74) Agents: **HIGHET, David W.** et al.; VP & Chief IP Counsel, Becton, Dickinson and Company, (Diehl Servilla LLC), 1 Becton Drive, MC 110, Franklin Lakes, New Jersey 07417-1880 (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, QA, RO, RS, RU, RW, 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.

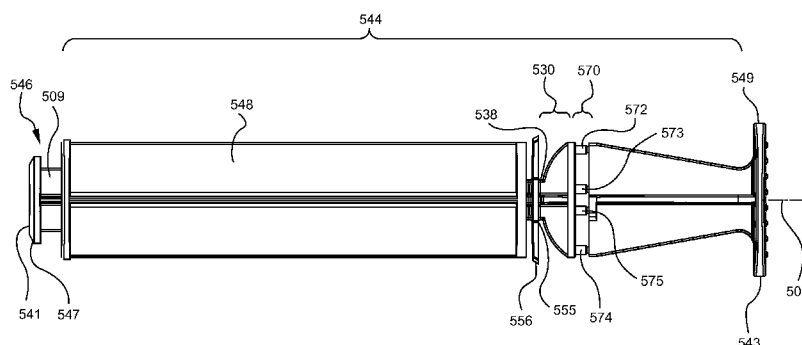
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, 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).

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))

(54) Title: SYRINGE WITH DISABLING MECHANISM

FIG. 45



(57) Abstract: Syringe assemblies having a passive disabling system to prevent reuse are provided. The syringe assembly comprises a barrel, plunger rod and stopper wherein the plunger rod further comprises a flexible protrusion (556) that locks the plunger rod within the barrel. Further includes a frangible portion (570) the plunger rod that breaks when reuse is attempted.