PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

IPOS 9902767-3

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61M 5/50, 5/32

A1

(11) International Publication Number: WO 98/20923

(43) International Publication Date: 22 May 1998 (22.05.98)

(21) International Application Number: PCT/US97/20646

(22) International Filing Date: 14 November 1997 (14.11.97)

(30) Priority Data:
(1) 08/749,997 15 November 1996 (15.11.96) US

(71) Applicant *(for all designated States except US)*: ADVENTEC, INC. [US/US]; 4 Union Street, Medford, NJ 08055 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: ADAMS, Robert, D. [US/US]; 2 Meetinghouse Court, Shamong, NJ 08088 (US).

(74) Agents: VOLPE, Anthony, S. et al.; Volpe and Koenig, P.C., 400 One Penn Center, 1617 John F. Kennedy Boulevard, Philadelphia, PA 19103 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: SYRINGE WITH RETRACTABLE NEEDLE ASSEMBLY

(57) Abstract

An improved syringe of the type having a hollow body which is closed at one end by an injection means and is open at the other end, the open end receives an elongated plunger means which moves through the hollow body and forces the contents of the body through the injection means. The improvement is comprised of an elastic member which retracts the injection means into a protective covering.

