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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 December 2009 (23.12.2009)

PCT

(10) International Publication Number
WO 2009/153542 A1

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

(21) International Application Number:
PCT/GB2009/001447

(22) International Filing Date:
10 June 2009 (10.06.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0811348.2 19 June 2008 (19.06.2008) GB

(71) Applicant *(for all designated States except US)*: **CILAG GMBH INTERNATIONAL** [CH/CH]; Landis & Gyr-Strasse 1, CH-6300 Zug (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **JENNINGS, Douglas, Ivan** [GB/GB]; PA Consulting Group, Cambridge Technology Centre, Melbourn, Hertfordshire SG8 6DP (GB). **BURNELL, Rosemary, Louise** [GB/GB]; PA Consulting Group, Cambridge Technology Centre, Melbourn, Hertfordshire SG8 6DP (GB). **HOGWOOD, Jonathan** [GB/GB]; PA Consulting Group, Cambridge Technology Centre, Melbourn, Hertfordshire SG8 6DP (GB).

(74) Agents: **TUNSTALL, Christopher, Stephen** et al.; Carpmaels & Ransford, 43-45 Bloomsbury Square, London WC1A 2RA (GB).

(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, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, MK, 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).

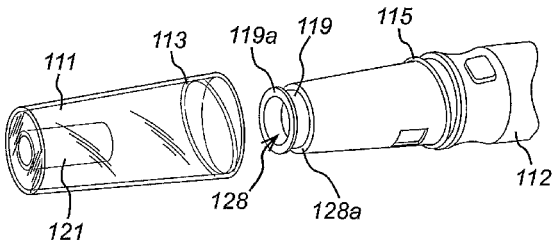
Published:

— *with international search report (Art. 21(3))*

WO 2009/153542 A1

(54) **Title**: AUTOMATIC INJECTION DEVICE WITH TRIGGER LOCK

FIG. 1



(57) **Abstract**: An injection device comprises a housing adapted to receive a syringe having a discharge nozzle, the syringe being moveable in the housing on actuation of the injection device along a longitudinal axis from a retracted position in which the discharge nozzle is contained within the housing and an extended position in which the discharge nozzle of the syringe extends from the housing through an exit aperture (138). There is an actuator and a drive adapted to be acted upon by the actuator and in turn act upon the syringe to advance it from its retracted position to its extended position and discharge its contents through the discharge nozzle. A locking mechanism (119) is moveable from an engaged position in a direction into the housing at the exit aperture into a disengaged position. The locking mechanism is adapted to prevent actuation of the device when it is in its engaged position and permit actuation of the device when it is in its disengaged position. The exit aperture is defined by a rim (128a) located on an edge of the housing and the locking mechanism comprises a contact surface (119a) which is adapted to extend over or around at least a part of the rim.