



- (51) **International Patent Classification:**
A61M 35/00 (2006.01) *A45D 34/04* (2006.01)
- (21) **International Application Number:**
PCT/US2012/025558
- (22) **International Filing Date:**
17 February 2012 (17.02.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/444,308 18 February 2011 (18.02.2011) US
61/539,177 26 September 2011 (26.09.2011) US
61/568,254 8 December 2011 (08.12.2011) US
- (71) **Applicant (for all designated States except US):** **ALLERGAN, INC.** [US/US]; 2525 Dupont Drive, Irvine, California 92886 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **SLOKOVIC, Lorens** [CA/US]; 1106 Lynwood Dr., Cleburne, Texas 76033 (US). **GREMEL, Julie L.** [US/US]; 1 Via Lantana, Rancho Santa Margarita, California 92688 (US).
- (74) **Agents:** **WURST, John et al.**; Allergan, Inc., 2525 Dupont Drive, Irvine, California 92612 (US).

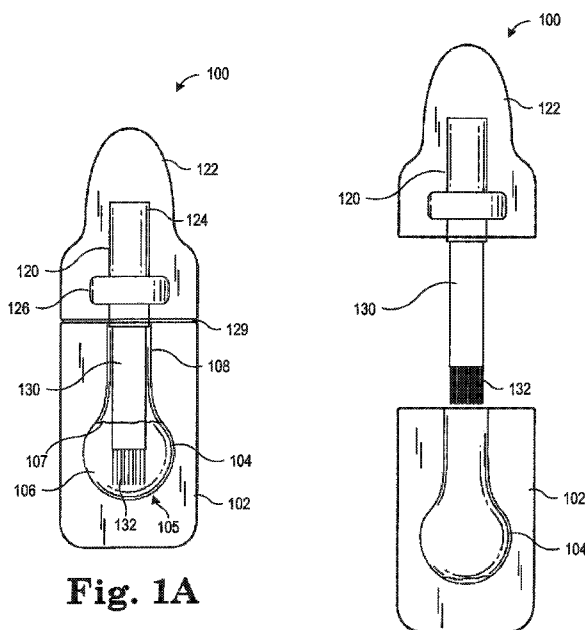
(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, 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, RW, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) **Title:** UNIT DOSE BREAKABLE VIAL WITH INTEGRATED BRUSH APPLICATOR**Fig. 1A****Fig. 1B**

(57) **Abstract:** A disposable sterile breakable vial includes a handle section and a vial section which are completely separable in response to a manually applied separation force. The vial section includes a sterile void dimensioned to contain a unit dose of a sterile therapeutic topical agent. An elongated member comprises a proximal portion supported by the handle section and a distal portion provided with a sterile applicator element, such as a brush. At least the applicator element is completely enclosed within the vial section with the applicator element immersed within the therapeutic topical agent. A hermetic seal between the handle and vial sections maintains sterility of at least the vial section prior to handle and vial section separation. Complete separation of the handle section and the vial section exposes the elongated member and the applicator element for topical application of the therapeutic agent saturating the applicator element.



Published:

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