9805660-9

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61M 11/00 — A1

(11) International Publication Number: **WO 97/42992**

(43) International Publication Date: 20 November 1997 (20.11.97)

(21) International Application Number: PCT/AU97/00283

(22) International Filing Date: 9 May 1997 (09.05.97)

(30) Priority Data:
PN 9764 10 May 1996 (10.05.96) AU

(71) Applicant *(for all designated States except US)*: GLAXO WELLCOME AUSTRALIA LTD. [AU/AU]; 1061 Mountain Highway, Boronia, VIC 3155 (AU).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: PIKE, Gregory, Charles [AU/AU]; 7/1 Ardoch Avenue, St. Kilda East, VIC 3183 (AU). RIEDEL, Ingo, Helmuth [AU/AU]; Lot 2, Nettleton Road, Monbulk, VIC 3793 (AU). SMITH, Stephan [AU/AU]; 28/133 Fitzroy Street, St. Kilda, VIC 3182 (AU).

(74) Agents: HIND, Raymond, Stenton et al.; Davies Collison Cave, 1 Little Collins Street, Melbourne, VIC 3000 (AU).

(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, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), 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.

REPLACED SHEETS SG

- ☐ Description : paged ..... to paged .....
- ☑ Claim(s) : paged 18 to paged ~~22~~
- ☐ Drawing(s) : paged ..... to paged .....
- ☐ Abstract : paged ..... to paged .....

(54) Title: UNIT DOSE DISPENSING DEVICE

(57) Abstract

A device for dispensing a unit dose of substance comprises a nozzle assembly (2) including a container (24) housing a unit dose of the substance, and an outer body (4) to which the nozzle assembly (2) is releasably attached. The body (4) includes a system actuable to effect discharge of the substance from the nozzle assembly (2) and actuating means operable by a user to effect discharge. Preferably the discharge system comprises a spring-loaded air piston (68) actuable to inject air into the container (24) to cause discharge of the substance. In one embodiment a driving spring for the air piston is loaded with spring energy by the action of installing the nozzle assembly on the body, the driving spring therafter being held in a cocked state until operation of the actuating means by the user to effect release of the spring energy to cause discharge.

