*NO COVER LETTER

9804954-7

IPAS COPY.

**PCT** WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61M 5/20 — A1

(11) International Publication Number: WO 97/34651

(43) International Publication Date: 25 September 1997 (25.09.97)

(21) International Application Number: PCT/US97/04400

(22) International Filing Date: 19 March 1997 (19.03.97)

(30) Priority Data:
08/617,679 19 March 1996 (19.03.96) US

(71)(72) Applicant and Inventor: MCPHEE, Charles, J. [US/US]; 8562 Larthorn Drive, Huntington Beach, CA 92647 (US).

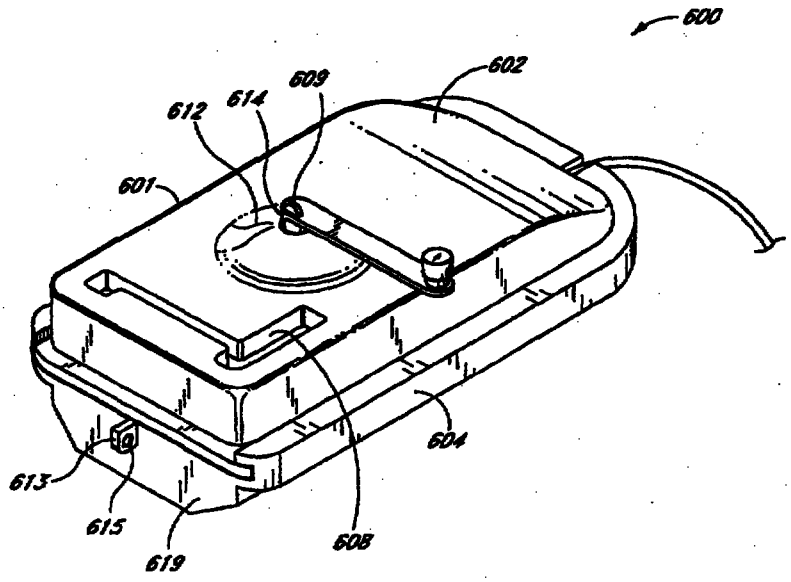
See IF 9/1 15/01/99.

(74) Agent: NATAUPSKY, Steven, J.; Knobbe, Martens, Olson and Bear, 16th floor, 620 Newport Center Drive, Newport Beach, CA 92660 (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, TJ, TM, TR, TT, UA, UG, 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.*

(54) Title: PLATEN PUMP




(57) Abstract

Disclosed is an infusion pump (400, 600) for expelling a fluid from a collapsible fluid reservoir (406, 640) to a patient. The pump (400, 600) includes a housing (401, 601) having a chamber (446, 646) therein for receiving the fluid reservoir (406, 640). A first wall (404, 504) is provided on the housing for contacting the fluid reservoir (406, 640), and a second wall (410, 630) is movable from a first position distanced from the first wall to form the chamber therebetween, and a second position relatively closer to the first wall. Advancing the movable wall (410, 630) from the first position to the second position expels fluid from the collapsible reservoir (406, 640) at a substantially constant rate by applying increasing force on the fluid reservoir (406, 640) through the dispensation cycle. Preferably, the first and second walls (406, 410, 604, 630) are provided with non-planar complementary surface (408, 413, 415, 417) for contacting the collapsible reservoir (406, 630).