

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 November 2009 (12.11.2009)

(10) International Publication Number
WO 2009/137780 A8

- (51) **International Patent Classification:** [US/US]; 1200 East Calofornia Boulevard, Pasadena, CA 91125 (US).
A61M 31/00 (2006.01)
- (21) **International Application Number:** PCT/US2009/043317
- (22) **International Filing Date:** 8 May 2009 (08.05.2009)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
 - 61/051,422 8 May 2008 (08.05.2008) US
 - 61/197,751 30 October 2008 (30.10.2008) US
 - 61/197,769 30 October 2008 (30.10.2008) US
 - 61/198,090 3 November 2008 (03.11.2008) US
 - 61/198,131 3 November 2008 (03.11.2008) US
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- (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, 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, 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))

[Continued on next page]

(54) **Title:** IMPLANTABLE PUMPS AND CANNULAS THEREFOR

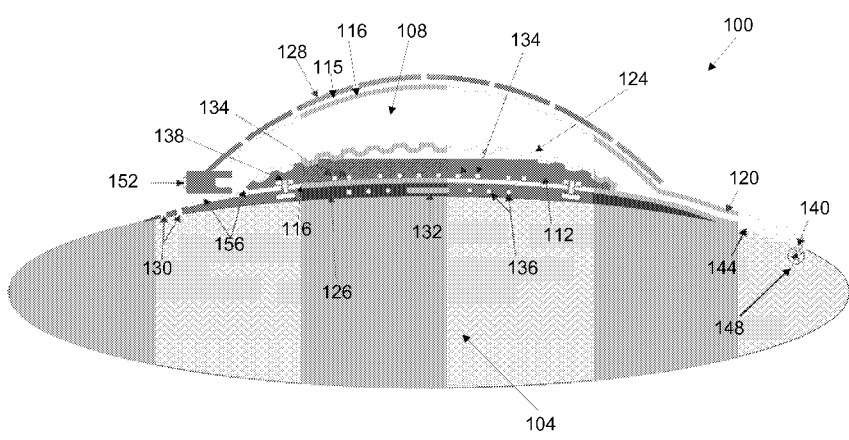


FIG. 1A

(57) **Abstract:** The implantable pump (100) comprises a drug reservoir (108), a cannula (120) for conducting liquid from the reservoir, means (112, 124, 134) for forcing the liquid from the reservoir through the cannula, a sensor (148) for monitoring at least one parameter relating to liquid flowing through the cannula, and circuitry (132) for adjusting the forcing means based on the monitored parameter. In another embodiment the pump includes a filter.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
1 April 2010

(48) Date of publication of this corrected version:
29 April 2010

(15) Information about Correction:
see Notice of 29 April 2010