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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
05 July 2018 (05.07.2018)

WIPO | PCT

(10) International Publication Number
WO 2018/125922 A1

(51) International Patent Classification:
A61M 5/142 (2006.01)

(21) International Application Number:
PCT/US2017/068552

(22) International Filing Date:
27 December 2017 (27.12.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/440,755 30 December 2016 (30.12.2016) US

(71) Applicants: **BAXTER INTERNATIONAL INC.** [US/US]; One Baxter Parkway, Deerfield, Illinois 60015 (US). **BAXTER HEALTHCARE SA** [CH/CH]; Thurgauerstrasse 130, CH-8152 Glattpark (Opfikon) (CH).

(72) Inventors: **SLABY, Jiri**; 970 Indian Spring Lane, Buffalo Grove, Illinois 60089 (US). **JAMNIA, Mohammad Ali**; 10702 48th Avenue, Pleasant Prairie, Wisconsin 53158 (US). **PIPPIN, Steve**; 150 E. Winchester, Libertyville, Illinois 60048 (US).

(74) Agent: **WEBER, Brett J.** et al.; K&L Gates LLP, c/o Foreign Patents, P.O. Box 1135, Chicago, Illinois 60690-1135 (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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, 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))*

(54) Title: INFUSION PUMP DOOR SEAL FOR VERTICAL INTRAVENOUS TUBES

(57) Abstract: An infusion pump for delivering an intravenous ("IV") fluid includes a housing comprising an actuation area that engages a portion of an IV tube. The actuation area includes a first end that receives the IV tube from a fluid container and a second end that provides the IV tube to a patient. The housing also includes a seal section located along a perimeter of at least a portion of the actuation area. The seal section includes a gasket rib positioned along the seal section and a tube channel configured to cradle the IV tube. The example infusion pump also includes a door connected to the housing and configured to engage the gasket rib to enclose the actuation area of the housing.

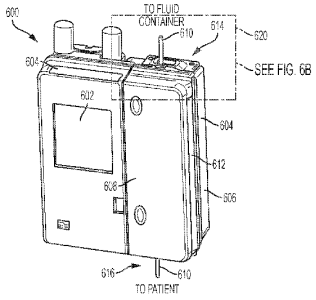

FIG. 6A

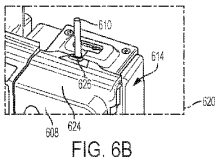

FIG. 6B

WO 2018/125922 A1

[Continued on next page]

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