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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 November 2010 (18.11.2010)

PCT

(10) International Publication Number
WO 2010/132196 A1

(51) International Patent Classification:
A61M 5/178 (2006.01)

(21) International Application Number:
PCT/US2010/032474

(22) International Filing Date:
27 April 2010 (27.04.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/464,555 12 May 2009 (12.05.2009) US

(71) Applicant *(for all designated States except US)*: **RETRACTABLE TECHNOLOGIES, INC** [US/US]; 511 Lobo Lane, Little Elm, TX 75068 (US).

(72) Inventors *(for US only)*: **SHAW, Thomas, J.**; 5310 Buena Vista, Frisco, TX 75034 (US). **DUESMAN, Kathryn, Margaret**; 11132 FM 455E, Pilot Point, TX 76258 (US). **ZHU, Ni**; 4408 Brigade Ct., Plano, TX 75024 (US).

(74) Agent: **ROSS, Monty, L.**; Locke Lord Bissell & Liddell, LLP, 2200 Ross Ave., Ste 2200, Dallas, TX 75201 (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, RO, RS, RU, 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, 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, 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 the identity of the inventor (Rule 4.17(i))*

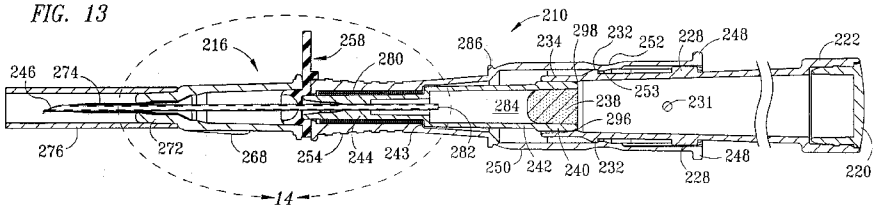
Published:

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

WO 2010/132196 A1

(54) Title: IV CATHETER INTRODUCER

FIG. 13



(57) Abstract: An IV catheter introducer having an elastomeric grommet disposed between the housing and the IV catheter assembly that helps avoid unintentional separation of IV catheter assembly from the housing during shipping and handling prior to use, that acts as a needle guide, that helps align the housing and IV catheter assembly coaxially, that indicates that top side of the catheter introducer, that provides proper rotational alignment between the grommet and housing, that wipes blood off the needle during withdrawal of the needle from the catheter assembly and grommet, that impedes blood flow out of the catheter hub after needle withdrawal, and that assists the user in separating the housing from the IV catheter assembly following insertion of the catheter and withdrawal of the needle.