

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 June 2020 (25.06.2020)



(10) International Publication Number
WO 2020/127328 A1

(51) International Patent Classification:

A61M 25/06 (2006.01) A61M 5/32 (2006.01)
A61M 39/06 (2006.01)

(21) International Application Number:

PCT/EP2019/085732

(22) International Filing Date:

17 December 2019 (17.12.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/780,830	17 December 2018 (17.12.2018)	US
62/866,765	26 June 2019 (26.06.2019)	US
62/882,141	02 August 2019 (02.08.2019)	US
201922254020.2	16 December 2019 (16.12.2019)	CN

(71) Applicant: **B. BRAUN MELSUNGEN AG** [DE/DE];
Carl-Braun-Strasse 1, 34212 Melsungen (DE).

(72) Inventors: **WOEHR, Kevin**; Carl-Braun-Strasse 1, 34212 Melsungen (DE). **PHANG, Chee Mun**; Bayan Lepas Free Industrial Zone, Penang, 10810 (MY).

(74) Agent: **KINKELDEY, Daniela**; BIRD & BIRD LLP, Maximiliansplatz 22, 80333 Muenchen (DE).

(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.

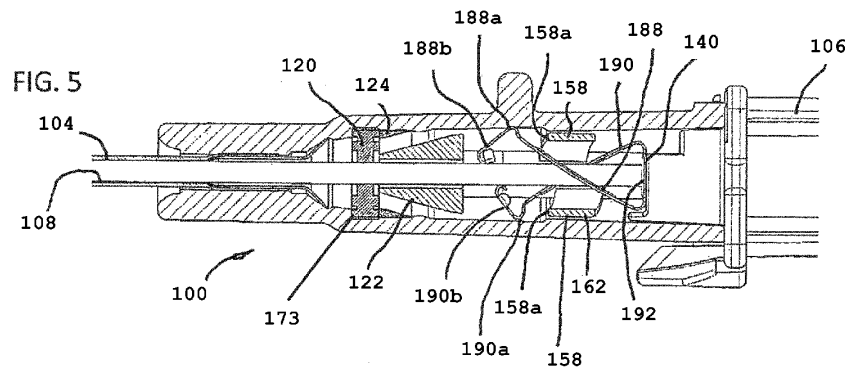
(84) Designated States (unless otherwise indicated, for every kind of regional protection available):

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).

Published:

- with international search report (Art. 21(3))
- 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))

(54) Title: OVER-THE-NEEDLE CATHETER ASSEMBLIES AND RELATED MANUFACTURING METHOD



(57) Abstract: Needle devices (100) having a component (124) that provides the function of fixing a valve (120) in a standard diameter sized catheter hub (102), the valve (120) and/or the component (124) provide or provides a proximally directed axial force for returning the valve opener (122) from a distal position within the catheter hub (102) to a proximal position within the catheter hub (102) when a male Luer (200) is disconnected from the catheter hub (102). Various components can be located inside a single hub body catheter hub (102) that can restrict fluid flow, allow actuation to permit fluid flow, prevent needlestick injuries, and combinations thereof.

WO 2020/127328 A1