

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 October 2021 (14.10.2021)



(10) International Publication Number
WO 2021/207315 A1

(51) International Patent Classification:

A61M 25/00 (2006.01) *A61M 5/32* (2006.01)
A61M 39/10 (2006.01) *A61B 5/153* (2006.01)
A61M 25/06 (2006.01) *A61B 5/15* (2006.01)

(21) International Application Number:

PCT/US2021/026116

(22) International Filing Date:

07 April 2021 (07.04.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/007,018 08 April 2020 (08.04.2020) US

(71) Applicant: **SCV DELIVERY SYSTEMS LLC** [US/US];
c/o Industrial & Biomedical Sensors Corp., 1377 Main
Street, 2nd Floor, Waltham, MA 02451 (US).

(72) Inventors: **RAY, Subir**; 9010 Alister Blvd. E., Apt. 101,
Palm Beach Gardens, FL 33418 (US). **CHANG, Kuowei**;
32 Buckman Drive, Lexington, MA 02421 (US). **CHANG,**
Sanlu, Y.; 32 Buckman Drive, Lexington, MA 02421 (US).
LACARRERE, Kristofer; c/o Olaregen Therapeutix LLC,
118 East 57th Street, 5th Floor, New York, NY 10022 (US).
SALLETTE, Alfred; 1312 Forrestal Ave., San Jose, CA
95110 (US).

(74) Agent: **COCHRAN, Andrew, J.**; KING & SPALDING
(NYC), 1185 Avenue Of The Americas, New York, NY
10036-4003 (US).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

(54) Title: DEVICES, METHODS, AND SYSTEMS FOR SUBCLAVIAN VEIN CATHETER PLACEMENT

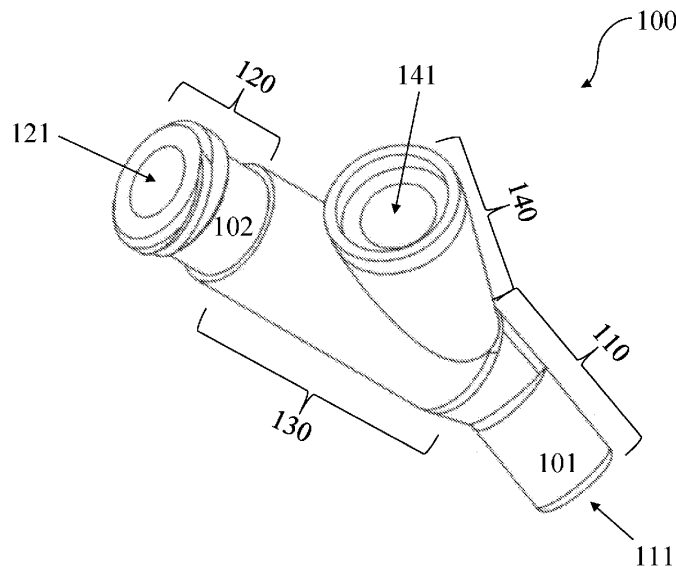


FIGURE 1

(57) **Abstract:** A connector hub for a needle assembly, the connector hub comprising a first portion located at a first end section of the connector hub, the first portion comprising a first longitudinal axis, a second portion located at a second end section of the connector hub opposite the first end, the second portion comprising a second longitudinal axis, a medial portion located at a middle section of the connector hub between the first and second end sections, the medial portion comprising a medial longitudinal axis arranged at an angle relative to the first longitudinal axis, and arranged at an angle relative to the second longitudinal axis, and at least one insertion port located on the medial portion, wherein the insertion port comprises an insertion port longitudinal axis, wherein the insertion port longitudinal axis is arranged at an angle relative to the medial longitudinal axis.

[Continued on next page]



WO 2021/207315 A1

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, IT, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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))