

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 May 2020 (07.05.2020)



(10) International Publication Number
WO 2020/089894 A3

(51) International Patent Classification:

A61B 1/00 (2006.01) *A61B 1/008* (2006.01)
A61B 1/005 (2006.01) *G02B 23/24* (2006.01)

(21) International Application Number:

PCT/IL2019/051167

(22) International Filing Date:

29 October 2019 (29.10.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/752,003 29 October 2018 (29.10.2018) US
16/455,202 27 June 2019 (27.06.2019) 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, 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,

(54) Title: INSERTION UNIT FOR MEDICAL INSTRUMENTS AND AN INTUBATION SYSTEM THEREOF

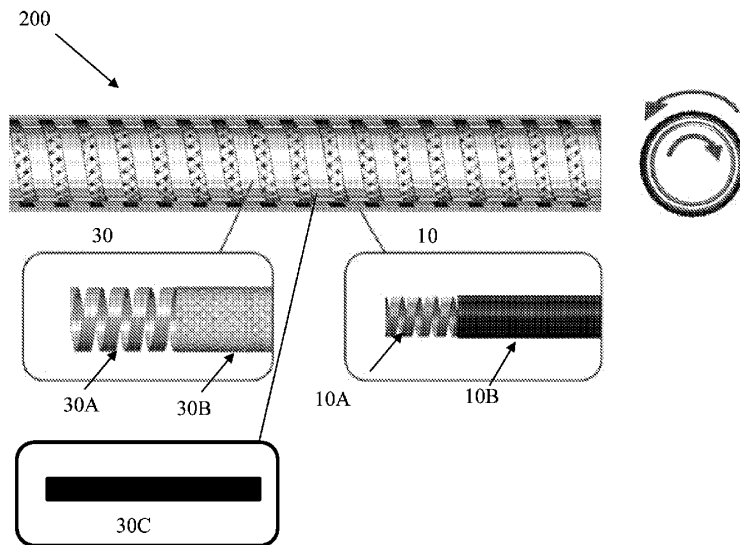


Fig. 2B

(57) Abstract: The present invention discloses an insertion unit, a bending section and an intubation system for use in a body lumen of a patient. The insertion unit comprises an inner elongated shaft structure being capable of torque transmission around its length axis and having flexibility properties and an outer elongated shaft structure at least partially surrounding the inner elongated shaft structure and having elastic and flexibility properties and a continuous and flat outer surface. The inner elongated shaft structure has a distal end, and is capable of being connected to an optical head. The insertion unit is configured to transmit pushing, steering and rotational forces along a length of the insertion unit. The integral insertion unit is configured and operable to bend the distal tip in all directions and to fully rotate the distal tip.

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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:

- *of inventorship (Rule 4.17(iv))*

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))*

(88) Date of publication of the international search report:

15 October 2020 (15.10.2020)