

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
05 April 2018 (05.04.2018)



(10) International Publication Number
WO 2018/063884 A1

(51) International Patent Classification:
G02B 23/02 (2006.01) G02B 23/24 (2006.01)

(21) International Application Number:
PCT/US2017/052465

(22) International Filing Date:
20 September 2017 (20.09.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
15/278,541 28 September 2016 (28.09.2016) US

(71) Applicant: GENERAL ELECTRIC COMPANY
[US/US]; 1 River Road, Schenectady, NY 12345 (US).

(72) Inventors: O'CONNOR, Ethan, Patrick; 9701 Wind-
sich Rd., Suite 100, West Chester, OH 45069 (US).

DIWINSKY, David, Scott; 1 Neumann Way, Cincinnati,
OH 45215 (US). GRADY, Wayne, Ray; 1 Neumann Way,
Cincinnati, OH 45215 (US).

(74) Agent: KACHUR, Pamela, A. et al.; General Electric
Company, Global Patent Operation, 901 Main Avenue, 3rd
Floor, Norwalk, CT 06851 (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,

(54) Title: INTEGRATED VARIABLE VIEW OPTICAL ADAPTER FOR AN OPTICAL SCOPE

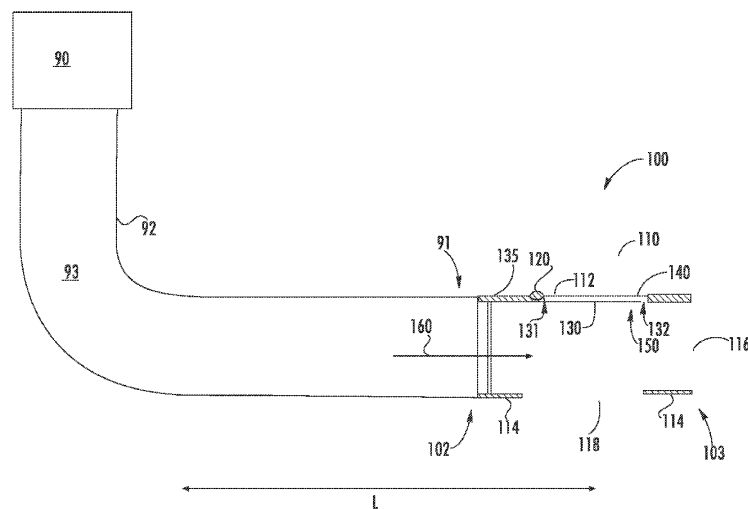


FIG. 1

(57) Abstract: The present disclosure is directed to an optical adapter for an optical scope. The optical scope includes a tube defining a conduit. The optical adapter is coupled to an end of the tube. The optical adapter defines a proximate end and a distal end. The optical adapter includes a casing defining a longitudinal direction. The casing includes a first wall and a second wall, in which the first wall and the second wall define a first viewing port therebetween. The second wall defines a second viewing port. The optical adapter further includes a hinge coupled to the first wall, a reflecting lens defining a first end separated from a second end in the longitudinal direction, in which the first end is coupled to the hinge, and an actuator coupled to the first wall and to the second end of the reflecting lens. The actuator pivots the reflecting lens about the hinge from a retracted position adjacent to the first wall to an extended position toward the second wall.

[Continued on next page]

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))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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