

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 November 2021 (25.11.2021)



(10) International Publication Number
WO 2021/236248 A1

(51) International Patent Classification:

A61L 2/08 (2006.01) A61L 29/14 (2006.01)
A61L 2/10 (2006.01) A61L 31/06 (2006.01)
A61L 29/06 (2006.01) A61L 31/10 (2006.01)
A61L 29/08 (2006.01) A61L 31/12 (2006.01)
A61L 29/12 (2006.01) A61L 31/14 (2006.01)

(21) International Application Number:

PCT/US2021/026464

(22) International Filing Date:

08 April 2021 (08.04.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/027,750 20 May 2020 (20.05.2020) US
17/224,661 07 April 2021 (07.04.2021) US

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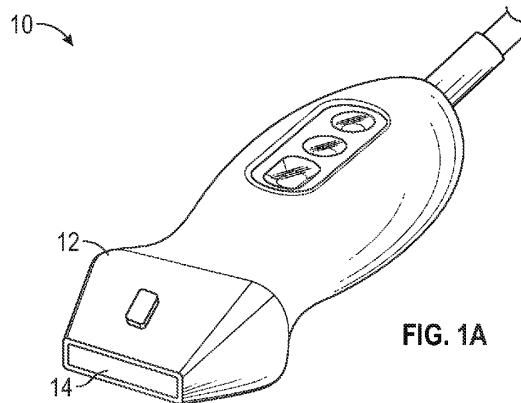
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, 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,

(54) Title: MEDICAL DEVICE HAVING A PHOTSENSITIZER AND RELATED METHODS



(57) Abstract: A medical device may include a body and a photosensitizer integrated with the body. The medical device may passively resist colonization of bacteria under ambient light. The medical device may also actively resist colonization of bacteria by releasing reactive oxidative species (ROS) in response to administration of a light dose in a range of 0.5 J/cm² to 320 J/cm², for a duration between 1 second and 1 hour. The body may be formed by a base resin. The photosensitizer may be compounded with the base resin. The photosensitizer may be imbibed into the base resin. The medical device may include a coating disposed on a surface of the body. The photosensitizer may be disposed within the coating. The medical device may include a catheter adapter and a catheter extending distally from the catheter adapter. The catheter may be co-extruded with the photosensitizer and another material.

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

Published:

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