

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 May 2025 (30.05.2025)



(10) International Publication Number
WO 2025/111388 A1

(51) International Patent Classification:

A61L 27/18 (2006.01) A61L 27/52 (2006.01)
A61L 27/58 (2006.01)

(21) International Application Number:

PCT/US2024/056757

(22) International Filing Date:

20 November 2024 (20.11.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/601,527 21 November 2023 (21.11.2023) US

(71) Applicant: **TULAVI THERAPEUTICS, INC.** [US/US];
160 Knowles Drive, Los Gatos, California 95032 (US).

(72) Inventors: **BRIGHT, Corinne**; 160 Knowles Drive, Los
Gatos, California 95032 (US). **REN, Yong**; 160 Knowles
Drive, Los Gatos, California 95032 (US). **CAMPBELL,**

Sophia Michela; 160 Knowles Drive, Los Gatos, Califor-
nia 95032 (US).

(74) Agent: **LOZAN, Vladimir S.**; KNOBBE, MARTENS,
OLSON & BEAR, LLP, 2040 Main Street, 14th Floor,
Irvine, California 92614 (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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
MA, MD, MG, MK, MN, MU, 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, CV,

(54) Title: DEVICES FOR IN SITU FORMED, REINFORCED NERVE COAPTATION AIDS, CAPS, AND WRAPS

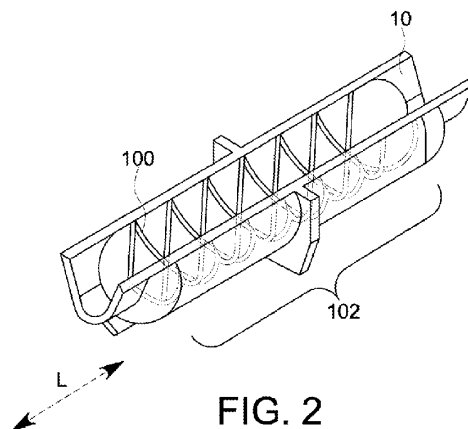


FIG. 2

(57) Abstract: A method may include positioning a scaffold in at least a portion of a cavity defined by a form. A method may include positioning a first nerve end of a first nerve at least partially on the scaffold in the cavity. A method may include positioning a second nerve end of a second nerve at least partially on the scaffold in the cavity. A method may include introducing an in situ forming media in contact with the first nerve end, the second nerve end, and the scaffold. A method may include permitting the in situ forming media to undergo a transformation from a first, relatively flowable state to a second, relatively non-flowable state to form a protective barrier surrounding the first nerve end and the second nerve end.

[Continued on next page]



WO 2025/111388 A1

GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))*