

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 November 2024 (21.11.2024)



(10) International Publication Number
WO 2024/234051 A1

(51) International Patent Classification:

A61N 1/36 (2006.01) A61N 1/04 (2006.01)
A61B 5/00 (2006.01) A61N 5/06 (2006.01)

(21) International Application Number:

PCT/AU2024/050489

(22) International Filing Date:

16 May 2024 (16.05.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2023901538 18 May 2023 (18.05.2023) AU

(71) Applicant: **PARASYM LTD** [AU/AU]; C/-Davies Collison Cave Pty Ltd, Level 10, 301 Coronation Drive, Milton, Queensland 4064 (AU).

(72) Inventor; and

(71) Applicant: **DUNDOVIC, Sophie** [AU/AU]; C/-Davies Collison Cave Pty Ltd, Level 10, 301 Coronation Drive, Milton, Queensland 4064 (AU).

(72) Inventor: **DUNDOVIC, Nathan**; C/-Davies Collison Cave Pty Ltd, Level 10, 301 Coronation Drive, Milton, Queensland 4064 (AU).

(74) Agent: **DAVIES COLLISON CAVE PTY LTD**; Level 10, 301 Coronation Drive, Milton, Queensland 4064 (AU).

(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, 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).

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: NEUROMODULATION SYSTEM

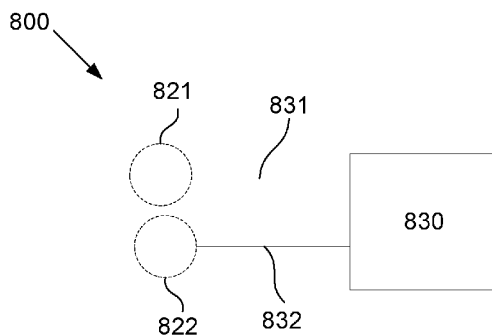


Fig. 8

(57) Abstract: The present invention seeks to provide a neuromodulation system for treating a condition, the system including: electrodes configured to be attached to a subject; and, a signal generator electrically connected to the electrodes, the signal generator being configured to generate at least one therapy signal that is applied to the subject via the electrodes to thereby modulate the nerve, and wherein the at least one therapy signal includes at least one sequence of different types of waveforms.

WO 2024/234051 A1