

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 February 2025 (13.02.2025)



(10) International Publication Number
WO 2025/034369 A3

(51) International Patent Classification:
A61N 5/06 (2006.01) A61N 2/02 (2006.01)

(21) International Application Number:
PCT/US2024/038264

(22) International Filing Date:
17 July 2024 (17.07.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
18/365,222 04 August 2023 (04.08.2023) US

(71) Applicant: LUMAFLEX LLC [US/US]; 1848, Berkshire Lane North, Minneapolis, MN 55441 (US).

(72) Inventors: MARKWAT, Kim; Laan Van Ypenburg 108, 2497GC The Hague (NL). DIJKSTRA, Alain; Groenhof 342, 2497GC Amstelveen (NL). HARPER, John Graham; 29 Portobello Drive, Mermaid Waters, Queensland, 4218 (AU).

(74) Agent: JACQUES, Willie; 777 Main Street, Unit 406, Hartford, CT 06103 (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, 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,

(54) Title: WEARABLE THERAPY DEVICE

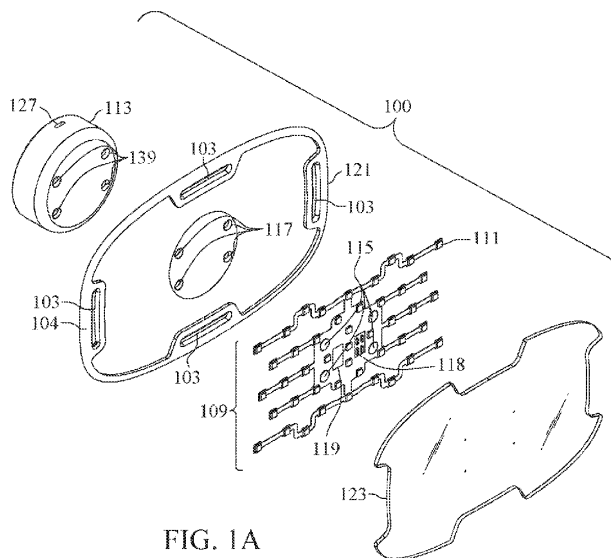


FIG. 1A

(57) Abstract: A wearable therapy device for relieving pain and muscle's recovery, comprising a. primary sheet configured with at least one slot on each side of primary sheet, each slot configured with a strap for tightening the strap with the user's body portion, a FPCB arranged in between primary sheet and secondary sheet for transmitting power to LEDs mounted on the FPCB, to illuminate, a detachable controller attached with the rear side of the primary sheet for controlling the functions, and a polarity protection circuit to alter polarity of poles.

[Continued on next page]

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 the identity of the inventor (Rule 4.17(i))*
- *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))*
- *of inventorship (Rule 4.17(iv))*

Published:

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

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

15 May 2025 (15.05.2025)