

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 December 2020 (17.12.2020)



(10) International Publication Number
WO 2020/251816 A1

(51) International Patent Classification:

A61N 5/06 (2006.01) A61B 18/00 (2006.01)
A44C 5/00 (2006.01)

(21) International Application Number:

PCT/US2020/035856

(22) International Filing Date:

03 June 2020 (03.06.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

16/438,364 11 June 2019 (11.06.2019) US

(71) Applicant: SOLETLUNA HOLDINGS, INC. [US/US];
9775 Businesspark Ave., San Diego, CA 92131 (US).

(72) Inventor: SCHMIDT, David; 9775 Businesspark Ave.,
San Diego, CA 92131 (US).

(74) Agent: MAYO, Joseph; 5749 La Jolla Blvd., La Jolla, CA
92037 (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,
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,
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))

(54) Title: WEARABLE PHOTOTHERAPY APPARATUS WITH ANTI-VIRAL AND OTHER EFFECTS

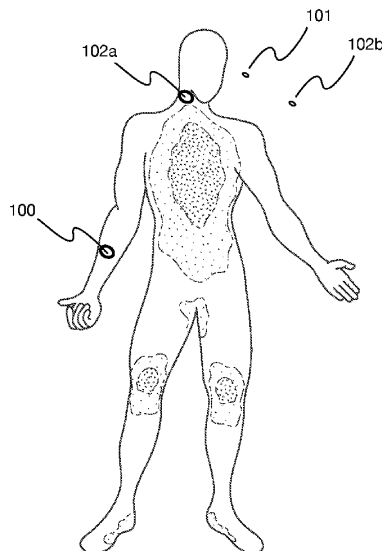


FIG. 1

(57) Abstract: Embodiments enables a wearable phototherapy apparatus that produces beneficial effects to a human body such as anti-viral effects, activation of stem cells, improvement in strength, improvement in stamina, pain relief via a non-transdermal container. May include an optional transdermal container that releases or increases copper peptide GHK-Cu in a subject's body. The non-transdermal apparatus reflects or emits specific wavelengths of light to elevate levels of the copper peptide GHK-Cu in the body. The non-transdermal apparatus includes one or more materials that prevent the Left-Handed molecule from direct contact with the body while the enclosure is coupled to the body and prevents the Left-Handed molecules from entering the body. Embodiments may include or be used with any bioavailable form of copper, e.g., such as copper glycinate as an anti-viral therapy and may include an anti-inflammatory or both.