

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 May 2024 (23.05.2024)



(10) International Publication Number
WO 2024/108183 A1

(51) International Patent Classification:

G01D 5/353 (2006.01) G01B 11/16 (2006.01)
G01K 11/3206 (2021.01) G01M 11/00 (2006.01)
G01L 1/24 (2006.01)

(21) International Application Number:

PCT/US2023/080396

(22) International Filing Date:

17 November 2023 (17.11.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/426,254 17 November 2022 (17.11.2022) US

(71) Applicant: CTC GLOBAL CORPORATION [US/US];
2026 McGaw Avenue, Irvine, California 92614 (US).

(72) Inventors: CORBALIS, Kevin; 2026 McGaw Avenue,
Irvine, California 92614 (US). BOSZE, Eric; 2026 Mc-
Gaw Avenue, Irvine, California 92614 (US). GOEKJIAN,
David; 2026 McGaw Avenue, Irvine, California 92614
(US).

(74) Agent: DOCKERY, David F.; The Navitas Intellectual
Property Group LLC, 4600 South Syracuse Street, Suite
900, Denver, Colorado 80237 (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: SYSTEMS AND METHODS FOR OPERATING AN OVERHEAD ELECTRICAL LINE

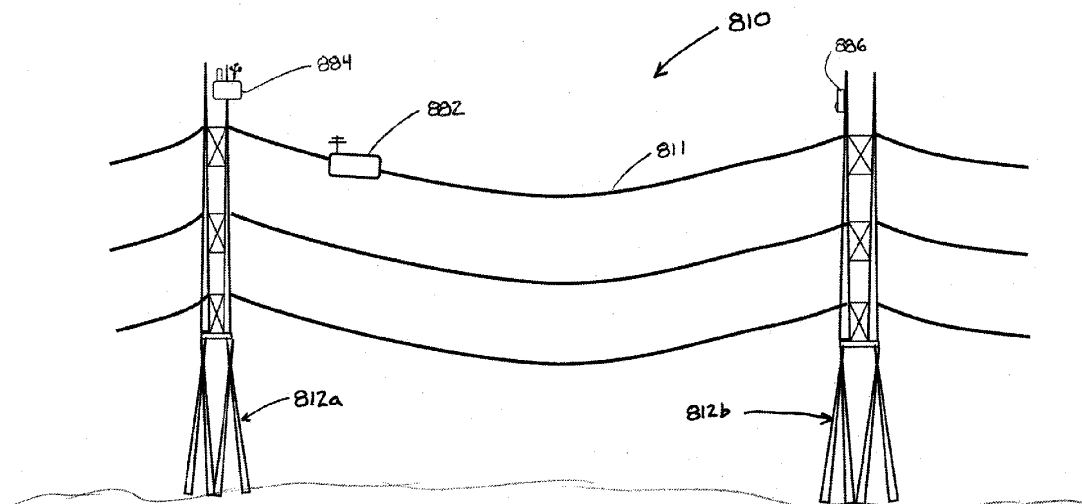


FIG. 8

(57) Abstract: Methods and systems for the operation of an overhead electrical line. The systems include one or more distributed sensors associated with an overhead electrical cable and one or more non-distributed sensors associated with the overhead electrical cable. The non-distributed sensors may be used to corroborate line condition values obtained from the distributed sensors, or may be used to calibrate the values obtained from the non-distributed sensors.

[Continued on next page]

WO 2024/108183 A1

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:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*