

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 July 2025 (03.07.2025)



(10) International Publication Number
WO 2025/144663 A1

(51) International Patent Classification:
G01R 22/06 (2006.01) *G01R 22/10* (2006.01)

(21) International Application Number:
PCT/US2024/060904

(22) International Filing Date:
19 December 2024 (19.12.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/615,425 28 December 2023 (28.12.2023) US

(71) Applicant: **LANDIS+GYR TECHNOLOGY, INC.**
[US/US]; 30000 Mill Creek Avenue, Suite 100, Alpharetta,
Georgia 30022 (US).

(72) Inventors: **BUSEKRUS, Doug**; c/o Landis+Gyr Technol-
ogy, Inc., 30000 Mill Creek Avenue, Suite 100, Alpharet-

ta, Georgia 30022 (US). **KRAUS, Matthew Eric**; c/o Lan-
dis+Gyr Technology, Inc., 30000 Mill Creek Avenue, Suite
100, Alpharetta, Georgia 30022 (US).

(74) Agent: **HARRIS, Christopher P.** et al.; 950 Main Avenue,
Suite 710, Cleveland, Ohio 44113 (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.

(54) Title: ELECTRICITY METER AND METHOD OF CONTROLLING AN ELECTRICITY METER USING AN APPLIED MAG-
NETIC FIELD

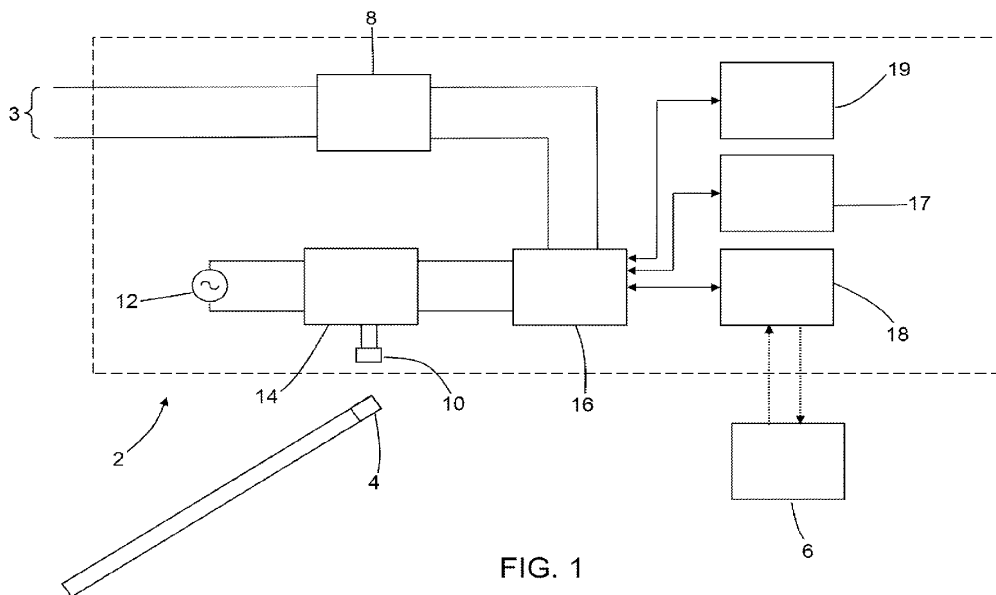


FIG. 1

(57) Abstract: An electricity meter comprises a magnetic field sensor for sensing a magnetic field which is applied to the electricity meter, the magnetic field sensor including a coil; a signal generator for generating an input electrical waveform such as a periodic input electrical waveform; circuitry connected to the coil and to the signal generator; and a processing resource, wherein the electricity meter is configured so that the circuitry receives the input electrical waveform, and the circuitry generates an output electrical signal which is dependent on the input electrical waveform and a portion of the magnetic field sensor is exposed, and wherein the processing resource is configured to receive the output electrical signal and to control the electricity meter based on the output electrical signal.

[Continued on next page]

(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).

Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i))*
- *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))*