



- (51) **International Patent Classification:**
G01R 21/133 (2006.01) *G01R 22/10* (2006.01)
- (21) **International Application Number:**
PCT/US2024/060296
- (22) **International Filing Date:**
16 December 2024 (16.12.2024)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/613,474 21 December 2023 (21.12.2023) US
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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).

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))*

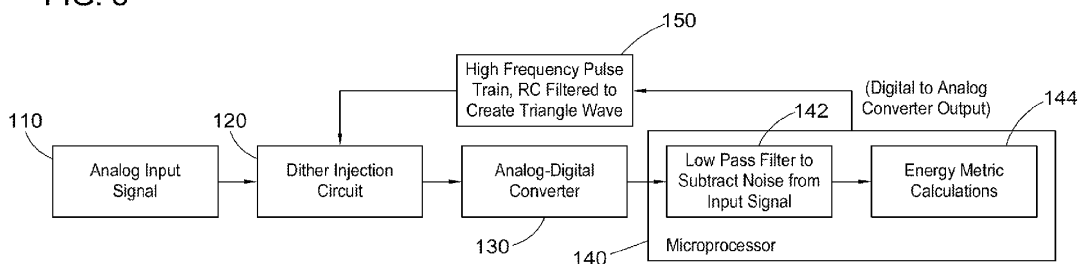
Published:

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

- (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,

- (54) **Title:** ELECTRICITY METER

FIG. 3



- (57) **Abstract:** An electricity meter for measuring one or more properties of an alternating electrical signal, the electricity meter comprising: signal injection circuitry configured to inject a conditioning signal onto the alternating electrical signal to generate a conditioned electrical signal; an analogue-to-digital converter (ADC) coupled to the signal injection circuitry and configured to generate an ADC output data sequence based on the conditioned electrical signal; a filter coupled to the ADC and configured to filter out the conditioning signal from the ADC output data sequence to generate a filtered ADC output data sequence; and a processing resource coupled to the ADC and configured to determine one or more properties of the alternating electrical signal based on the filtered ADC output data sequence.