



(51) International Patent Classification:

H03M 7/30 (2006.01) G01F 1/00 (2022.01)
G01R 1/00 (2006.01)

(21) International Application Number:

PCT/US2023/024071

(22) International Filing Date:

31 May 2023 (31.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/889,718 17 August 2022 (17.08.2022) US

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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,
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))

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

(54) Title: EFFICIENT COMPRESSION OF SENSOR DATA

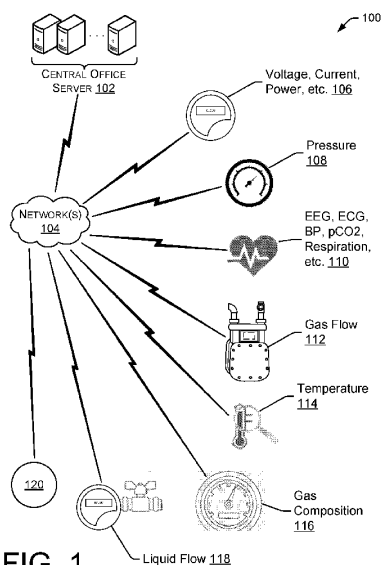


FIG. 1

(57) Abstract: Techniques for efficient compression of sensor data are described herein. In an example, metrology data is received from a metrology device, the metrology data comprising one or more of: voltage (V) data; current (A) data; resistive power (W) data; and volt-amps reactive power (VAR) data. The metrology data is processed, wherein the processing comprises: performing peak-detection on the metrology data, to create data-signals comprising: a timestamped peak-values data-signal; and a peak-removed data-signal. Median-filtering is performed on the peak-removed data-signal, wherein a median-filtered data-signal is created. Level-shift detection is performed on the median-filtered data-signal, wherein a timestamped level-shift data-signal is created. The data is sent to a server. The data may include the timestamped peak-values data-signal and the timestamped level-shift data-signal.