



(51) International Patent Classification:
G06F 1/12 (2006.01) *H04J 3/06* (2006.01)
G01D 4/00 (2006.01)

(21) International Application Number:
PCT/US2024/021651

(22) International Filing Date:
27 March 2024 (27.03.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2304813.5 31 March 2023 (31.03.2023) GB

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

(72) Inventors: **STENBERG, David**; 2800 Duncan Road,
Lafayette, Indiana 47904 (US). **BOBICK, David**; 2004
Longspur Dr., West Lafayette, Indiana 47906 (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.

(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: POWER-CONSUMPTION METERING ENDPOINT

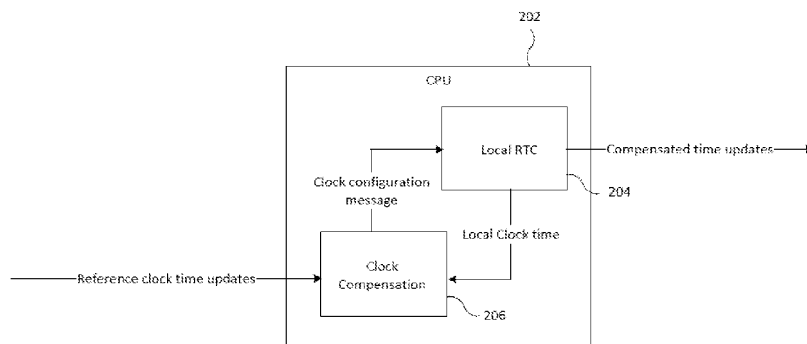


Figure 2a

(57) Abstract: A power-consumption metering endpoint comprising: a local clock; a clock compensation module configured to: receive a plurality of reference clock time updates output by a reference clock; record times of the local clock at which the plurality of reference clock time updates were received; and determine an approximation function of the development of an error between the local and reference clocks; wherein the clock compensation module is further configured to: obtain a time of the local clock; use the time of the local clock and the approximation function to determine an error between the local and reference clocks; compute a compensated time using (i) the time of the local clock, and (ii) the error between the local and reference clocks; and transmit at least one clock configuration message based on the compensated time to the local clock which outputs a time update based on the clock configuration message(s).

[Continued on next page]

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))*