



(51) International Patent Classification:
G01R 31/08 (2020.01)

(21) International Application Number:
PCT/EP2020/065896

(22) International Filing Date:
09 June 2020 (09.06.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
19182247.7 25 June 2019 (25.06.2019) EP

(71) Applicant: **REACTIVE TECHNOLOGIES LIMITED**
[GB/GB]; 9400 Garsington Road, Oxford Business Park,
Oxford OX4 2HN (GB).

(72) Inventors: **BERRY, Brian**; c/o Reactive Technologies
Limited, 9400 Garsington Road, Oxford Business Park,

Oxford OX4 2HN (GB). **VENTOLA, Mika**; c/o Reactive
Technologies Limited, 9400 Garsington Road, Oxford
Business Park, Oxford OX4 2HN (GB). **GHEORGHE,
Daniel**; c/o Reactive Technologies Limited, 9400 Garsing-
ton Road, Oxford Business Park, Oxford OX4 2HN (GB).
PELTOLA, Timo; c/o Reactive Technologies Limited,
9400 Garsington Road, Oxford Business Park, Oxford OX4
2HN (GB). **ALAKONTIOLA, Jukka**; c/o Reactive Tech-
nologies Limited, 9400 Garsington Road, Oxford Business
Park, Oxford OX4 2HN (GB).

(74) Agent: **KOLSTER OY AB**; (Salmisaarenaukio 1),
P.O.Box 204, 00181 Helsinki (FI).

(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, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,

(54) Title: SYSTEM FOR DETERMINING ELECTRIC PARAMETERS OF AN ELECTRIC POWER GRID

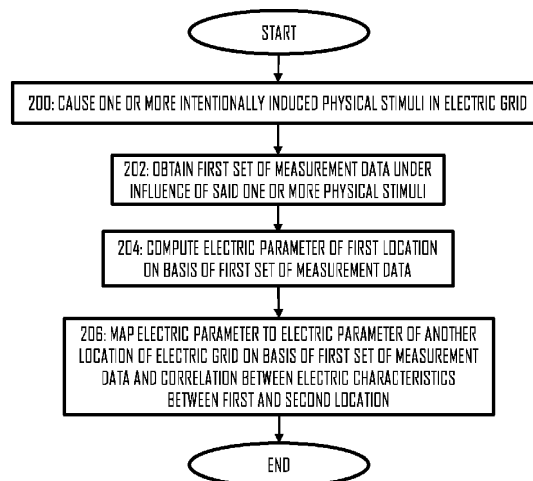


Fig 2

(57) Abstract: This document discloses a solution for a method of monitor-ing an electric power grid. According to an aspect, a method comprises: detecting one or more physical stimuli in the electric power grid; obtaining, while the one or more physical stimuli is effective, a first set of measurement data associated with a first location of the electric power grid; computing operational information such as a fault level of the first location of the electric power grid on the basis of the first set of measurement data; mapping the operational information to corresponding operational information of a second location of the electric power grid on the basis of the first set of measurement data and correlation between electrical characteristics of the first location and the second location.

[Continued on next page]

KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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 applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*