

Title (en)

METHOD AND SYSTEM FOR MONITORING THE OPERATING STATE OF AN ENERGY SUPPLY NETWORK

Title (de)

VERFAHREN UND SYSTEM ZUM ÜBERWACHEN DES BETRIEBSZUSTANDES EINES ENERGIEVERSORGUNGSNETZES

Title (fr)

PROCÉDÉ ET SYSTÈME POUR SURVEILLER L'ÉTAT DE FONCTIONNEMENT D'UN RÉSEAU D'ALIMENTATION EN ÉNERGIE

Publication

EP 3928413 A1 20211229 (DE)

Application

EP 20710820 A 20200228

Priority

- DE 102019204301 A 20190328
- EP 2020055282 W 20200228

Abstract (en)

[origin: WO2020193074A1] The invention relates to a method (1) for monitoring the operating state of an energy supply network, in which a data processing cloud (2) is connected to a number of selected communication units (4) at a query time via long-range communication connections (3), and each selected communication unit (4) transmits measured values and/or values derived from the measured values to the data processing cloud (2) via one of the long-range communication connections (3), wherein, in order to receive the measured values and/or the values derived therefrom, each communication unit (4) is connected, via a short-range communication connection, to at least one sensor which, in order to capture the measured values, is arranged on or in a high-voltage device (5) of the energy supply network, and the data processing cloud (2) determines the operating state of the energy supply network within the scope of an analysis on the basis of the measured values and/or the values derived from the measured values. In order to provide a simple and cost-effective analysis of the operating state of the entire energy supply network, it is proposed that the data processing cloud (2) during the analysis takes into account the measured values and/or the values derived from the measured values which come from at least two selected communication units (4) set up at different locations.

IPC 8 full level

H02J 13/00 (2006.01); **G05B 19/02** (2006.01)

CPC (source: EP US)

G01R 19/2513 (2013.01 - US); **G05B 23/0208** (2013.01 - EP); **H02J 13/00001** (2020.01 - EP); **H02J 13/00028** (2020.01 - EP); **H04L 43/08** (2013.01 - US); **H04L 67/12** (2013.01 - US)

Citation (search report)

See references of WO 2020193074A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020193074 A1 20201001; CN 113812060 A 20211217; DE 102019204301 A1 20201001; EP 3928413 A1 20211229; US 11442085 B2 20220913; US 2022043040 A1 20220210

DOCDB simple family (application)

EP 2020055282 W 20200228; CN 202080034337 A 20200228; DE 102019204301 A 20190328; EP 20710820 A 20200228; US 202017599013 A 20200228