

Title (en)

METHOD FOR OPERATING A SUPPLY NETWORK AND SUPPLY NETWORK

Title (de)

VERFAHREN ZUM BETREIBEN EINES VERSORGUNGSNETZWERKS UND VERSORGUNGSNETZWERK

Title (fr)

PROCÉDÉ D'EXPLOITATION D'UN RÉSEAU D'ALIMENTATION ET RÉSEAU D'ALIMENTATION

Publication

**EP 2864943 A1 20150429 (DE)**

Application

**EP 13730229 A 20130618**

Priority

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- EP 2013062587 W 20130618

Abstract (en)

[origin: WO2013189914A1] A method is described for operating a supply network with network units that provide or consume a resource. Cost functions of the network units are mapped onto local potentials of an undirected graph model. Marginalisation methods or optimisation methods such as belief propagation for stochastic interference minimise an overall cost function for controlling the network units. An accordingly operated supply network with network units is also described. The described method makes it possible, for example, to easily determine a usage plan for power plants as network units in an energy supply network. Condition estimates for networks are also made possible.

IPC 8 full level

**G06Q 10/06** (2012.01)

CPC (source: CN EP US)

**G05F 1/66** (2013.01 - EP US); **G06Q 10/06** (2013.01 - CN EP US); **H02J 4/00** (2013.01 - US); **Y04S 10/50** (2013.01 - EP)

Citation (search report)

See references of WO 2013189914A1

Citation (examination)

- DE 102010005955 A1 20110728 - ABB TECHNOLOGY AG [CH]
- EP 1418477 A1 20040512 - ABB RESEARCH LTD [CH]

Cited by

CN108833183A

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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

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