

Title (en)

METHOD FOR REBUILDING AN ELECTRIC SUPPLY GRID

Title (de)

VERFAHREN ZUM WIEDERAUFBAU EINES ELEKTRISCHEN VERSORGUNGSNETZES

Title (fr)

PROCÉDÉ DE RÉTABLISSEMENT D'UN RÉSEAU D'ALIMENTATION ÉLECTRIQUE

Publication

EP 3549226 A1 20191009 (DE)

Application

EP 17808872 A 20171201

Priority

- DE 102016123384 A 20161202
- EP 2017081104 W 20171201

Abstract (en)

[origin: WO2018100125A1] The invention relates to a method for rebuilding an electric supply grid of a grid operator by means of at least one wind turbine. The electric supply grid has a first grid section and at least one additional grid section, and the first grid section is connected to the at least one wind turbine and has a first grid nominal voltage. The first grid section is coupled to the at least one additional grid section via at least one switching device in order to transmit electric energy between the grid sections, and the at least one switching device is designed to separate the first grid section from the at least one additional grid section in the event of a fault. The method has the steps of operating the at least one wind turbine in a monitoring mode in the event of a fault, wherein the wind turbine does not supply the first grid section in the monitoring mode, and a status of the first grid section is checked, operating the at least one wind turbine in a grid rebuilding mode if the first grid section has a grid rebuilding voltage, and operating the at least one wind turbine in a normal operation mode again as soon as the fault is over.

IPC 8 full level

H02J 3/38 (2006.01); **F03D 7/02** (2006.01); **H02J 3/00** (2006.01)

CPC (source: EP KR RU US)

F03D 7/00 (2013.01 - RU); **F03D 7/0264** (2013.01 - US); **F03D 7/0284** (2013.01 - KR US); **F03D 7/048** (2013.01 - US); **H02J 3/001** (2020.01 - EP KR US); **H02J 3/18** (2013.01 - US); **H02J 3/38** (2013.01 - RU); **H02J 3/381** (2013.01 - EP KR US); **H02J 3/388** (2020.01 - KR); **F03D 7/0284** (2013.01 - EP); **F05B 2270/107** (2013.01 - EP KR US); **F05B 2270/337** (2013.01 - EP); **H02J 3/388** (2020.01 - EP US); **H02J 2300/28** (2020.01 - EP KR US); **Y02E 10/72** (2013.01 - EP KR); **Y02E 10/76** (2013.01 - EP KR)

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 2018100125 A1 20180607; BR 112019011071 A2 20191001; CA 3043980 A1 20180607; CA 3043980 C 20210615; CN 110036549 A 20190719; CN 110036549 B 20240319; DE 102016123384 A1 20180607; EP 3549226 A1 20191009; JP 2019537416 A 20191219; KR 20190088541 A 20190726; RU 2728523 C1 20200730; US 11286905 B2 20220329; US 2020003181 A1 20200102

DOCDB simple family (application)

EP 2017081104 W 20171201; BR 112019011071 A 20171201; CA 3043980 A 20171201; CN 201780074876 A 20171201; DE 102016123384 A 20161202; EP 17808872 A 20171201; JP 2019527868 A 20171201; KR 20197019072 A 20171201; RU 2019120022 A 20171201; US 201716465437 A 20171201