

Title (en)

ELECTRICALLY COUPLING A FIRST ELECTRICAL SUPPLY NETWORK TO A SECOND ELECTRICAL SUPPLY NETWORK

Title (de)

ELEKTRISCHES KOPPELN EINES ERSTEN ELEKTRISCHEN NETZES MIT EINEM ZWEITEN ELEKTRISCHEN NETZ

Title (fr)

COUPLAGE ÉLECTRIQUE D'UN PREMIER RÉSEAU ÉLECTRIQUE À UN DEUXIÈME RÉSEAU ÉLECTRIQUE

Publication

**EP 3759809 A1 20210106 (DE)**

Application

**EP 19727865 A 20190515**

Priority

- EP 18174998 A 20180530
- EP 2019062507 W 20190515

Abstract (en)

[origin: WO2019228816A1] The invention relates to a method for operating an energy converter (10) that couples a first supply network (12) to a second supply network (14) by electrical energy being converted by means of at least one switch element (22), wherein: - the switch element (22) is operated in a switching operation and - a supply-network current for one of the supply networks (12, 14) is adjusted depending on a comparison of the supply-network current with a reference current, - a first operating mode is provided for the switching operation, in which operating mode an electrical voltage of one of the supply networks (12, 14) is set by means of a PWM method on the basis of the comparison, and - a second operating mode is provided, in which the switch element (22) is therefore switched if, during the comparison, a difference between the supply-network current and the reference current is greater than a first predefined relative switching value and/or is smaller than a second predefined relative switching value, wherein the first and the second operating mode are alternated during the intended operation.

IPC 8 full level

**H02M 7/5387** (2007.01); **H02M 1/32** (2007.01)

CPC (source: EP US)

**H02M 7/53875** (2013.01 - EP US); **H02M 1/325** (2021.05 - EP US)

Citation (search report)

See references of WO 2019228816A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

**EP 3576284 A1 20191204**; CN 112236932 A 20210115; CN 112236932 B 20220208; EP 3759809 A1 20210106; US 11128237 B2 20210921; US 2021203251 A1 20210701; WO 2019228816 A1 20191205

DOCDB simple family (application)

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