

Title (en)

METHOD FOR OPERATING AN ACTIVE CONVERTER CONNECTED TO AN ELECTRICAL MACHINE AND MEANS FOR THE IMPLEMENTATION THEREOF

Title (de)

VERFAHREN ZUM BETREIBEN EINES AN EINE ELEKTRISCHE MASCHINE ANGESCHLOSSENEN AKTIVEN UMRICHTERS UND MITTEL ZU DESSEN IMPLEMENTIERUNG

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UN CONVERTISSEUR ACTIF RACCORDÉ À UNE MACHINE ÉLECTRIQUE ET MOYENS POUR SA MISE EN OEUVRE

Publication

EP 3257127 A1 20171220 (DE)

Application

EP 16701293 A 20160121

Priority

- DE 102015202440 A 20150211
- EP 2016051214 W 20160121

Abstract (en)

[origin: WO2016128194A1] In an active converter (102) which is connected to an electrical machine (101), in which clamping circuits for activating voltage clamping after a first time are provided, and which is also set up to activate a load shedding reaction only if activation conditions are present after a second time, the activation conditions comprise the fact that it is determined that a voltage potential applied to the supply side of an excitation winding of the electrical machine (101) at the second time is between the voltage potential applied to the first DC voltage connection (B+) and an earth potential if the excitation winding is disconnected from the voltage potential of the vehicle electrical system voltage and/or a current flowing through the excitation winding is below a current threshold value and/or, after a load shedding reaction has been activated for the first time, after which further load shedding reactions have been activated, more than one predefined period has elapsed and/or more than a predefined number of load shedding reactions have been activated.

IPC 8 full level

H02H 7/12 (2006.01); **H02J 7/14** (2006.01); **H02P 9/10** (2006.01); **H02P 9/48** (2006.01); **H02P 29/024** (2016.01)

CPC (source: CN EP US)

H02H 7/12 (2013.01 - EP US); **H02J 7/0031** (2013.01 - EP US); **H02J 7/0063** (2013.01 - CN EP US); **H02J 7/1438** (2013.01 - CN EP US); **H02P 9/102** (2013.01 - CN EP US); **H02P 9/48** (2013.01 - CN EP US); **H02P 29/0241** (2016.02 - CN EP US)

Citation (search report)

See references of WO 2016128194A1

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)

DE 102015202440 A1 20160811; CN 107210618 A 20170926; EP 3257127 A1 20171220; US 10075011 B2 20180911; US 2018026473 A1 20180125; WO 2016128194 A1 20160818

DOCDB simple family (application)

DE 102015202440 A 20150211; CN 201680009698 A 20160121; EP 16701293 A 20160121; EP 2016051214 W 20160121; US 201615547356 A 20160121