

Title (en)

ASCERTAINING FREEWHEEL PHASES OF AN ELECTRIC MACHINE COUPLED TO AN INTERNAL COMBUSTION ENGINE BY A FREEWHEEL

Title (de)

ERMITTELN VON FREILAUFPHASEN EINER MIT EINEM FREILAUF AN EINE BRENNKRAFTMASCHINE GEKOPPELTEN ELEKTRISCHEN MASCHINE

Title (fr)

DÉTERMINATION DE PHASES DE ROUE LIBRE D'UNE MACHINE ÉLECTRIQUE COUPLÉE À UN MOTEUR À COMBUSTION INTERNE AU MOYEN D'UNE ROUE LIBRE

Publication

EP 3459171 A1 20190327 (DE)

Application

EP 17713919 A 20170324

Priority

- DE 102016208704 A 20160520
- EP 2017057112 W 20170324

Abstract (en)

[origin: WO2017198381A1] The invention relates to a method for ascertaining freewheel phases (PhFI) of an electric machine (114) coupled to an internal combustion engine (112) by a freewheel (111), having the steps of detecting a time curve of a phase signal (121) of the electric machine (114), ascertaining a time curve of at least one rotational speed (n) from the phase signal (121), and ascertaining at least one freewheel phase (PhFI) of the electric machine (114) from the rotational speed (n) using a first criterion (K1) and a second criterion (K2). The invention additionally relates to a corresponding computing unit (118) which is designed to carry out the method and to a corresponding computer program.

IPC 8 full level

H02P 6/18 (2016.01); **B60W 10/10** (2012.01); **H02P 6/182** (2016.01)

CPC (source: EP)

H02P 6/18 (2013.01); **H02P 6/182** (2013.01)

Citation (search report)

See references of WO 2017198381A1

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 2017198381 A1 20171123; CN 109275352 A 20190125; DE 102016208704 A1 20171123; EP 3459171 A1 20190327

DOCDB simple family (application)

EP 2017057112 W 20170324; CN 201780031360 A 20170324; DE 102016208704 A 20160520; EP 17713919 A 20170324