

Title (en)

METHOD AND SYSTEM FOR COUPLING AN ELECTRICAL MACHINE TO THE RUNNING GEAR OF A VEHICLE, NOTABLY A HYBRID AUTOMOTIVE VEHICLE

Title (de)

VERFAHREN UND SYSTEM ZUR KOPPLUNG EINER ELEKTRISCHEN MASCHINE AN DAS FAHRGESTELL EINES FAHRZEUGES, IM BESONDEREN EINES HYBRIDAUTOS

Title (fr)

PROCEDE ET SYSTEME D'ACCOUPLEMENT D'UNE MACHINE ELECTRIQUE SUR UN TRAIN ROULANT DE VEHICULE, NOTAMMENT D'UN VEHICULE AUTOMOBILE HYBRIDE

Publication

**EP 2499393 A1 20120919 (FR)**

Application

**EP 10798161 A 20101103**

Priority

- FR 0957948 A 20091110
- FR 2010052357 W 20101103

Abstract (en)

[origin: WO2011058264A1] In order to couple an electrical machine to the driving wheels of a vehicle when the vehicle is at a standstill, the method comprises two stages (54, 55) which are activated in parallel at the instigation of a coupling request: - a stage (54) of translationally bringing two clutch dogs closer together along a common axis of rotation, an upstream dog rotating as one with the electrical machine and a downstream dog rotating as one with the driving wheels; and a stage (55) of slaving the torque of the electrical machine to a set dog-coupling torque which starts at a zero value at the moment of the coupling request and which progressively increases, remaining below an electrical machine start-up value for long enough for the two clutch dogs to be brought translationally closer together into a position which the tops of the teeth of the two clutch dogs are coplanar, and exceeding said start-up value after said sufficient duration has elapsed.

IPC 8 full level

**F16D 48/06** (2006.01); **F16D 48/08** (2006.01)

CPC (source: EP)

**B60K 6/52** (2013.01); **B60W 10/02** (2013.01); **B60W 10/08** (2013.01); **F16D 48/08** (2013.01); **B60Y 2300/73** (2013.01); **F16D 2500/10462** (2013.01); **F16D 2500/1066** (2013.01); **F16D 2500/50224** (2013.01); **F16D 2500/50607** (2013.01); **F16D 2500/5063** (2013.01); **F16D 2500/7046** (2013.01); **F16H 2061/047** (2013.01); **Y02T 10/62** (2013.01)

Citation (search report)

See references of WO 2011058264A1

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

DOCDB simple family (publication)

**FR 2952416 A1 20110513**; **FR 2952416 B1 20111118**; EP 2499393 A1 20120919; WO 2011058264 A1 20110519

DOCDB simple family (application)

**FR 0957948 A 20091110**; EP 10798161 A 20101103; FR 2010052357 W 20101103