

Title (en)

HYBRID DRIVE AND OPERATING METHOD FOR A HYBRID DRIVE

Title (de)

HYBRIDANTRIEB UND BETRIEBSVERFAHREN FÜR EINEN HYBRIDANTRIEB

Title (fr)

ENTRAÎNEMENT HYBRIDE ET PROCÉDÉ DE FONCTIONNEMENT D'UN ENTRAÎNEMENT HYBRIDE

Publication

EP 3280603 A1 20180214 (DE)

Application

EP 16714762 A 20160404

Priority

- DE 102015004467 A 20150404
- EP 2016000552 W 20160404

Abstract (en)

[origin: WO2016162117A1] A hybrid drive (1, 14) for a motor vehicle, comprising an internal combustion engine (2), an electric machine (3) and an output shaft (4), wherein the hybrid drive (1, 14) is embodied as a parallel hybrid and has at least one operating state in which both the internal combustion engine (2) and the electric machine (3) are coupled to the output shaft (4), wherein a switching element (5) is arranged between the internal combustion engine (2) and the electric machine (3), which switching element (5) can be operated either in a first switched position, in which the electric machine (3) is connected to the output shaft (4) and the internal combustion engine (2) is disconnected, or in a second switched position in which both the electric machine (3) and the internal combustion engine (2) are connected to the output shaft (4), wherein a shiftable transmission permitting different numbers of gears for the internal combustion engine (2) and the electric machine (3) is arranged between the electric machine (3) and the output shaft (4).

IPC 8 full level

B60K 6/365 (2007.10); **B60K 6/387** (2007.10); **B60K 6/48** (2007.10)

CPC (source: CN EP US)

B60K 6/365 (2013.01 - CN EP US); **B60K 6/387** (2013.01 - CN EP US); **B60K 6/48** (2013.01 - CN EP US); **B60K 6/547** (2013.01 - US);
B60W 20/40 (2013.01 - CN EP US); **B60K 2006/381** (2013.01 - CN EP US); **B60K 2006/4841** (2013.01 - CN EP US);
B60Y 2200/92 (2013.01 - US); **B60Y 2400/73** (2013.01 - US); **Y02T 10/62** (2013.01 - EP US); **Y10S 903/91** (2013.01 - EP US);
Y10S 903/919 (2013.01 - EP US)

Citation (search report)

See references of WO 2016162117A1

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 102015004467 A1 20161006; CN 107438529 A 20171205; CN 107438529 B 20200630; EP 3280603 A1 20180214;
US 10399431 B2 20190903; US 2018281581 A1 20181004; WO 2016162117 A1 20161013

DOCDB simple family (application)

DE 102015004467 A 20150404; CN 201680020496 A 20160404; EP 16714762 A 20160404; EP 2016000552 W 20160404;
US 201615562423 A 20160404