

Title (en)  
METHOD FOR OPERATING A DRIVE TRAIN

Title (de)  
VERFAHREN ZUM BETREIBEN EINES ANTRIEBSSTRANGS

Title (fr)  
PROCEDE D'EXPLOITATION D'UNE CHAINE CINEMATIQUE

Publication  
**EP 2435730 A2 20120404 (DE)**

Application  
**EP 10721151 A 20100519**

Priority  
• EP 2010056910 W 20100519  
• DE 102009026432 A 20090525

Abstract (en)  
[origin: WO2010136366A2] The invention relates to a method for operating a drive train of a motor vehicle, wherein the drive train comprises a hybrid drive as the drive unit, comprising an internal combustion engine (1) and an electric machine (2), wherein a coupling (5) is connected between the internal combustion engine (1) of the hybrid drive and the electric machine (2) of the hybrid drive, wherein a transmission (4) is connected between the electric machine (2) of the hybrid drive and an output (3) of the drive train, and wherein either a primary retarder (6) is connected between the electric machine (2) of the hybrid drive and the transmission (4), or a secondary retarder is connected between the transmission and the output. In order to heat hydraulic fluid when the coupling (5), which is connected between the internal combustion engine (1) of the hybrid drive and the electric machine (2) of the hybrid drive, is open and when a gear is engaged in the transmission (4), a braking torque is provided in the drive train by way of the primary retarder (6) or the secondary retarder, wherein the electric machine (2) of the hybrid drive is operated in a torque-controlled manner such that the same, of the amount in total, supplies a target torque that is dependent on a driver's command and the braking torque of the primary retarder (6) or the secondary retarder.

IPC 8 full level  
**F16H 57/04** (2010.01); **B60K 6/48** (2007.10); **B60W 10/18** (2012.01); **B60W 30/18** (2012.01); **B60W 30/194** (2012.01); **B60W 10/196** (2012.01)

CPC (source: EP US)  
**B60K 6/48** (2013.01 - EP US); **B60T 10/02** (2013.01 - EP US); **B60W 10/196** (2013.01 - EP US); **B60W 30/194** (2013.01 - EP US); **F16D 57/04** (2013.01 - EP US); **F16H 57/0413** (2013.01 - EP US); **B60L 2240/423** (2013.01 - EP US); **B60W 2710/083** (2013.01 - EP US); **Y02T 10/62** (2013.01 - EP US); **Y02T 10/64** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010136366A2

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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010136366 A2 20101202; WO 2010136366 A3 20110317**; DE 102009026432 A1 20101209; EP 2435730 A2 20120404; US 2012058857 A1 20120308; US 8663064 B2 20140304

DOCDB simple family (application)  
**EP 2010056910 W 20100519**; DE 102009026432 A 20090525; EP 10721151 A 20100519; US 201013266624 A 20100519