

Title (en)

DRIVE TRAIN AND METHOD FOR OPERATING A DRIVE TRAIN

Title (de)

ANTRIEBSSTRANG UND VERFAHREN ZUM BETRIEB EINES ANTRIEBSSTRANGS

Title (fr)

CHAÎNE CINÉMATIQUE ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE CHAÎNE CINÉMATIQUE

Publication

EP 2756178 A1 20140723 (DE)

Application

EP 12777848 A 20120821

Priority

- DE 102011082724 A 20110915
- DE 2012000842 W 20120821

Abstract (en)

[origin: WO2013037343A1] A drive train for a motor vehicle comprises an internal combustion engine which has at least one combustion cylinder for generating a drive moment, wherein the drive moment has rotational variations which are caused by a combustion operation in the at least one combustion cylinder, a crankshaft which can be driven by the at least one combustion cylinder for transmitting the drive moment, and a non-ignited damping cylinder which is coupled to the crankshaft and interacts with an energy store system for compensating for the rotational variations, wherein mechanical energy can be stored in the energy store system via the damping cylinder in case of torque peaks of the drive moment which are caused by the rotational variations, while mechanical energy can be output from the energy store system via the damping cylinder in case of torque valleys of the drive moment which are caused by the rotational variations. Rotational variations of the torque generated by an internal combustion engine can thus be damped using a compact design.

IPC 8 full level

F02B 75/06 (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP)

F02B 75/06 (2013.01); **F02D 2250/28** (2013.01)

Citation (search report)

See references of WO 2013037343A1

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)

DE 102012214819 A1 20130321; DE 112012003851 A5 20140626; EP 2756178 A1 20140723; WO 2013037343 A1 20130321

DOCDB simple family (application)

DE 102012214819 A 20120821; DE 112012003851 T 20120821; DE 2012000842 W 20120821; EP 12777848 A 20120821