

Title (en)

A HYBRID DRIVE MODULE, AND A METHOD FOR IMPROVING PERFORMANCE OF SUCH HYBRID DRIVE MODULE

Title (de)

HYBRIDANTRIEBSMODUL UND VERFAHREN ZUR LEISTUNGSVERBESSERUNG EINES SOLCHEN HYBRIDANTRIEBSMODULS

Title (fr)

MODULE D'ENTRAÎNEMENT HYBRIDE ET PROCÉDÉ D'AMÉLIORATION DE LA PERFORMANCE D'UN TEL MODULE D'ENTRAÎNEMENT HYBRIDE

Publication

EP 3867119 A1 20210825 (EN)

Application

EP 19797188 A 20191018

Priority

- SE 1851282 A 20181018
- EP 2019078452 W 20191018

Abstract (en)

[origin: WO2020079267A1] A method (200) for reducing acceleration variations of an output shaft (102) of a hybrid drive module (100), said hybrid drive module (100) comprising an electrical motor (110) being connected to the output shaft (102), wherein a crankshaft (22) of an associated internal combustion engine (20) is connected to an input shaft (101) of the hybrid drive module, and wherein the input shaft (101) is connected to the output shaft (102) via a clutch (130), said method comprising: - determining (201) a target RPM difference between the crankshaft (22) and the output shaft (102), - calculating (202) an actual RPM difference between the crankshaft (22) and the output shaft (102), and - determining (203) a pressure to be applied by actuation of the clutch (130) based on the target RPM difference, the actual RPM difference and/or on a current torque output from the internal combustion engine (20) to achieve an actual RPM difference essentially matching the target RPM difference.

IPC 8 full level

B60W 30/20 (2006.01); **B60K 6/38** (2007.10); **B60K 6/387** (2007.10); **B60K 6/48** (2007.10); **B60W 10/02** (2006.01); **B60W 10/06** (2006.01); **F16D 48/06** (2006.01)

CPC (source: EP)

B60K 6/38 (2013.01); **B60K 6/387** (2013.01); **B60K 6/48** (2013.01); **B60W 10/02** (2013.01); **B60W 10/06** (2013.01); **B60W 30/20** (2013.01); **F16D 48/06** (2013.01); **B60K 2006/4825** (2013.01); **B60K 2006/4833** (2013.01); **B60W 2030/206** (2013.01); **B60W 2050/0026** (2013.01); **B60W 2510/0241** (2013.01); **B60W 2510/0638** (2013.01); **B60W 2510/0657** (2013.01); **B60W 2510/1015** (2013.01); **B60W 2510/102** (2013.01); **B60W 2710/02** (2013.01); **B60W 2710/025** (2013.01); **B60W 2710/027** (2013.01); **F16D 2500/10412** (2013.01); **F16D 2500/1066** (2013.01); **F16D 2500/30415** (2013.01); **F16D 2500/3067** (2013.01); **F16D 2500/50293** (2013.01); **F16D 2500/70406** (2013.01); **F16D 2500/7044** (2013.01); **F16D 2500/70442** (2013.01); **Y02T 10/62** (2013.01)

Citation (search report)

See references of WO 2020079267A1

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 2020079267 A1 20200423; EP 3867119 A1 20210825

DOCDB simple family (application)

EP 2019078452 W 20191018; EP 19797188 A 20191018