

Title (en)

METHOD FOR OPERATING A DRIVE TRAIN OF A MOTOR VEHICLE

Title (de)

VERFAHREN ZUM BETRIEB EINES ANTRIEBSSTRANGS EINES KRAFTFAHRZEUGS

Title (fr)

PROCEDE POUR FAIRE FONCTIONNER LA CHAINE CINEMATIQUE D'UN VEHICULE

Publication

EP 1620296 A1 20060201 (DE)

Application

EP 04718630 A 20040309

Priority

- EP 2004002386 W 20040309
- DE 10318033 A 20030419

Abstract (en)

[origin: WO2004094177A1] According to the inventive method, the clutch (14) is triggered for closing before the target gear is fully engaged. A control device (17) determines a triggering moment (Anst) for the clutch (14) according to operational parameters and/or state variables of the drive train (10). The control device (17) calculates an interval (Einleg) that is required for the target gear to be fully engaged as well as an interval (Greif) required for the clutch (14) to reach a gripping point. An optimal triggering moment (Anst) is determined from said intervals such that the tractive power is interrupted for a very short time during shifting while completion of the shifting operation is ensured.

IPC 1-7

B60W 10/02; **B60W 10/10**; **B60W 20/00**; **B60W 10/06**

IPC 8 full level

B60W 10/02 (2006.01); **B60W 10/10** (2012.01); **B60W 30/18** (2012.01); **F16D 48/06** (2006.01); **F16H 61/04** (2006.01)

CPC (source: EP US)

B60W 10/02 (2013.01 - EP US); **B60W 10/10** (2013.01 - EP US); **B60W 10/11** (2013.01 - EP US); **B60W 30/18** (2013.01 - EP US); **B60W 30/1819** (2013.01 - EP US); **F16H 61/0437** (2013.01 - EP US); **B60L 2240/486** (2013.01 - EP US); **B60W 2510/0225** (2013.01 - EP US); **B60W 2710/022** (2013.01 - EP US); **B60W 2710/023** (2013.01 - EP US); **F16H 61/682** (2013.01 - EP US); **F16H 63/46** (2013.01 - EP US); **F16H 2306/50** (2013.01 - EP US); **F16H 2306/52** (2013.01 - EP US)

Citation (search report)

See references of WO 2004094177A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2004094177 A1 20041104; DE 10318033 A1 20041125; EP 1620296 A1 20060201; US 2007062772 A1 20070322

DOCDB simple family (application)

EP 2004002386 W 20040309; DE 10318033 A 20030419; EP 04718630 A 20040309; US 55396604 A 20040309