

Title (en)

SPEED DIFFERENCE REGULATION OF A SWITCHABLE FRICTIONAL ENGAGEMENT CONTROL

Title (de)

DIFFERENZDREHZAHLREGELUNG EINER SCHALTBAREN REIBSCHLUSSVERBINDUNG

Title (fr)

REGULATION DE LA VITESSE DE ROTATION DIFFERENTIELLE D'UN ACCOUPLEMENT A FRICTION EMBRAYABLE

Publication

EP 1127226 A1 20010829 (DE)

Application

EP 99957985 A 19991103

Priority

- DE 19851341 A 19981106
- EP 9908393 W 19991103

Abstract (en)

[origin: DE19851341A1] The invention relates to a method for regulating the speed difference in a switchable frictional engagement control, especially in a clutch or a brake which are located in the drive train of a motor vehicle. Said regulation of the speed difference is carried out by a closed loop having a desired speed difference used as a reference input and a relevant speed difference used as a controlled variable. According to the invention, an additional controlled variable is used in addition to the clutch pressure and/or brake pressure to be adjusted, whereby the closed loop comprises a linear governor and damping members (TP1, TP2, TP3). Said additional controlled variable is used in such a way that the time shift of the damped values per reading step do not exceed a set value such that the actuation of said closed loop remains within a stable limit for controlling.

IPC 1-7

F16D 48/06; **B60K 41/06**

IPC 8 full level

F16H 61/14 (2006.01); **F16D 48/02** (2006.01); **F16D 48/06** (2006.01); **F16H 61/06** (2006.01); **F16H 59/72** (2006.01); **F16H 61/04** (2006.01)

CPC (source: EP US)

F16D 48/06 (2013.01 - EP US); **F16H 61/061** (2013.01 - EP US); **B60W 2050/0052** (2013.01 - EP); **B60W 2710/025** (2013.01 - EP US); **F16D 2500/1045** (2013.01 - EP US); **F16D 2500/30415** (2013.01 - EP US); **F16D 2500/30426** (2013.01 - EP US); **F16D 2500/30803** (2013.01 - EP US); **F16D 2500/5106** (2013.01 - EP US); **F16D 2500/525** (2013.01 - EP US); **F16D 2500/70406** (2013.01 - EP US); **F16D 2500/7041** (2013.01 - EP US); **F16D 2500/70458** (2013.01 - EP US); **F16D 2500/7082** (2013.01 - EP US); **F16H 59/72** (2013.01 - EP US); **F16H 63/502** (2013.01 - EP US); **F16H 2059/725** (2013.01 - EP US); **F16H 2061/0462** (2013.01 - EP US)

Citation (search report)

See references of WO 0028231A1

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

DE 19851341 A1 20000511; EP 1127226 A1 20010829; JP 2002529666 A 20020910; US 6567736 B1 20030520; WO 0028231 A1 20000518

DOCDB simple family (application)

DE 19851341 A 19981106; EP 9908393 W 19991103; EP 99957985 A 19991103; JP 2000581379 A 19991103; US 83103401 A 20010503