

Title (en)

PLANETARY POWER-SHIFT MULTI-STAGE TRANSMISSION, IN PARTICULAR FOR AN INTERNAL COMBUSTION ENGINE AND/OR ELECTRIC MOTOR DRIVE OF A MOTOR VEHICLE

Title (de)

LASTSCHALTBARES MEHRSTUFENGETRIEBE IN PLANETENRADBAUWEISE, INSBESONDERE FÜR EINEN VERBRENNUNGSMOTORISCHEN UND/ODER ELEKTROMOTORISCHEN ANTRIEB EINES KRAFTFAHRZEUGES

Title (fr)

BOÎTE DE VITESSES MULTI-ÉTAGÉE À CHANGEMENT DE VITESSE EN CHARGE DE CONSTRUCTION PLANÉTAIRE, EN PARTICULIER POUR UNE PROPULSION PAR MOTEUR À COMBUSTION INTERNE ET/OU PAR MOTEUR ÉLECTRIQUE D'UN VÉHICULE AUTOMOBILE

Publication

EP 3365581 A1 20180829 (DE)

Application

EP 16774957 A 20161004

Priority

- DE 102015220753 A 20151023
- EP 2016073603 W 20161004

Abstract (en)

[origin: WO2017067777A1] The invention relates to a planetary power-shift multi-stage transmission, in particular for an internal combustion engine and/or electric motor drive of a motor vehicle, comprising multiple forward gears and a reverse gear and having a drive shaft (1) as a first shaft; an output shaft (2) as a second shaft; two planetary gear sets (RS1, RS2) which are coupled together or can be coupled together and each of which has at least one first transmission element (1.1, 2.1), a second transmission element (1.2, 2.2), and a third transmission element (1.3, 2.3); and multiple shifting elements (10, 20, 30, 40, 50, 60, 70) which are paired with the planetary gear sets (RS1, RS2) and the selective shifting of which produces a transmission ratio between the drive shaft (1) and the output shaft (2) for the respective gear stage. At least three of the shifting elements (10, 20, 30, 40, 50, 60, 70) are designed as brakes, by means of which the first transmission element (1.1, 2.1), the second transmission element (1.2, 2.2), or the third transmission element (1.3, 2.3) of the planetary gear sets (RS1, RS2) can be braked directly or indirectly against a component (G) fixed to the housing. Additionally or alternatively thereto, at least two of the shifting elements (10, 20, 30, 40, 50, 60, 70) are designed as formfitting shifting elements, in particular claw shifting elements.

IPC 8 full level

F16H 3/66 (2006.01)

CPC (source: EP US)

B60K 6/365 (2013.01 - US); **B60K 6/485** (2013.01 - US); **F16H 3/66** (2013.01 - EP US); **F16H 3/666** (2013.01 - EP US); **F16H 2003/447** (2013.01 - EP US); **F16H 2200/0052** (2013.01 - EP US); **F16H 2200/2007** (2013.01 - EP US); **F16H 2200/2048** (2013.01 - EP US); **F16H 2200/2064** (2013.01 - EP US); **F16H 2200/2094** (2013.01 - EP US)

Citation (search report)

See references of WO 2017067777A1

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)

DE 102015220753 A1 20170427; CN 107923495 A 20180417; EP 3365581 A1 20180829; US 2018306280 A1 20181025; WO 2017067777 A1 20170427

DOCDB simple family (application)

DE 102015220753 A 20151023; CN 201680049636 A 20161004; EP 16774957 A 20161004; EP 2016073603 W 20161004; US 201615768717 A 20161004