

Title (en)
TORQUE-TRANSMITTING DEVICE AND DRIVETRAIN

Title (de)
DREHMOMENTÜBERTRAGUNGSEINRICHTUNG UND ANTRIEBSSTRANG

Title (fr)
DISPOSITIF DE TRANSMISSION DE COUPLE ET CHAÎNE CINÉMATIQUE

Publication
EP 4048541 A1 20220831 (DE)

Application
EP 20768498 A 20200820

Priority
• DE 102019128610 A 20191023
• DE 2020100731 W 20200820

Abstract (en)
[origin: WO2021078321A1] The invention relates to a torque-transmitting device (20) and to a drivetrain (10) for a motor vehicle, wherein the torque-transmitting device (20) has a first input side (60), a second input side (65), an output side (70), a hydrodynamic converter (95), a lockup clutch (100), a first torque-transmitting path (75) which runs between a splitting point (85) and a merging point (95), and a second torque-transmitting path (80) which is configured so as to be parallel with respect to the first torque-transmitting path (75), wherein the hydrodynamic converter (95) is arranged in the first torque-transmitting path (75) and the lockup clutch (100) is arranged in the second torque-transmitting path (80), wherein the first input side (60) is connectable to a crankshaft (35) for conjoint rotation, wherein the hydrodynamic converter (95) has a pump wheel (115) and a turbine wheel (120) which is hydrodynamically connectable to the pump wheel (115), wherein the splitting point (85) is connected to the first input side (60) for conjoint rotation, wherein the pump wheel (115) and a first clutch input side (105) of the lock-up clutch (100) are each connected to the splitting point (85) for conjoint rotation, wherein a second input side (65) is connected downstream of the merging point (90) in a torque flow of a first torque (M1) from the first input side (60) to the output side (70).

IPC 8 full level
B60K 6/48 (2007.10); **B60K 6/387** (2007.10); **F16H 61/14** (2006.01)

CPC (source: CN EP US)
B60K 6/387 (2013.01 - CN EP US); **B60K 6/48** (2013.01 - CN EP); **F16H 45/02** (2013.01 - CN EP US); **B60K 2006/4825** (2013.01 - CN EP); **B60Y 2200/92** (2013.01 - US); **F16H 2045/005** (2013.01 - US); **F16H 2045/0221** (2013.01 - US); **F16H 2045/0226** (2013.01 - CN US); **F16H 2045/0263** (2013.01 - CN US); **Y02T 10/62** (2013.01 - CN EP)

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 102019128610 A1 20210429; CN 114599899 A 20220607; EP 4048541 A1 20220831; US 12117070 B2 20241015; US 2022397186 A1 20221215; WO 2021078321 A1 20210429

DOCDB simple family (application)
DE 102019128610 A 20191023; CN 202080072824 A 20200820; DE 2020100731 W 20200820; EP 20768498 A 20200820; US 202017771025 A 20200820