

Title (en)

HYDRODYNAMIC TORQUE CONVERTER DEVICE FOR AN AUTOMOTIVE DRIVE TRAIN

Title (de)

HYDRODYNAMISCHE DREHMOMENTWANDLER-VORRICHTUNG FÜR EINEN KRAFTFAHRZEUG- ANTRIEBSSTRANG

Title (fr)

DISPOSITIF CONVERTISSEUR DE COUPLE HYDRODYNAMIQUE POUR CHAÎNE CINÉMATIQUE D'AUTOMOBILE

Publication

EP 1948972 A2 20080730 (DE)

Application

EP 06805470 A 20061021

Priority

- DE 2006001873 W 20061021
- DE 102005053597 A 20051110

Abstract (en)

[origin: WO2007054061A2] The invention relates to a hydrodynamic torque converter device for an automotive drive train, comprising a torsional vibration damper, a converter torus which is configured by an impeller, a turbine wheel and a stator, and a converter lockup clutch. The torsional vibration damper has a first energy accumulating device with one or more first energy accumulators, and a second energy accumulating device with one or more second energy accumulators. The converter lockup clutch, the first energy accumulating device and the second energy accumulating device are connected in series. At least one intermediate part is interposed between the first and the second energy accumulating device and is connected to the two energy accumulating devices in series. The turbine wheel has an outer turbine shell that is connected to the intermediate part in a rotationally fixed manner or forms the same, an input element of the first energy accumulating device being used to transmit via the converter lockup clutch a torque for loading the first energy accumulating device when the converter lockup clutch is closed. The input element of the first energy accumulating device, for the purpose of loading a respective front of a respective first energy accumulator, has at least one respective lug with a free end and a non-free end. The respective non-free end of a respective lug is positioned in relation to the radial direction of the rotational axis of the torsional vibration damper radially inside the free end of the respective lug.

IPC 8 full level

F16H 45/02 (2006.01)

CPC (source: EP KR US)

F16H 45/02 (2013.01 - EP KR US); **F16H 2045/007** (2013.01 - EP US); **F16H 2045/0226** (2013.01 - EP US); **F16H 2045/0231** (2013.01 - EP US); **F16H 2045/0247** (2013.01 - EP US); **F16H 2045/0284** (2013.01 - EP US)

Citation (search report)

See references of WO 2007054061A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007054061 A2 20070518; WO 2007054061 A3 20070628; CN 101305212 A 20081112; DE 112006002796 A5 20080904; EP 1948972 A2 20080730; JP 2009515120 A 20090409; KR 20080066026 A 20080715; US 2009139816 A1 20090604; US 8042667 B2 20111025

DOCDB simple family (application)

DE 2006001873 W 20061021; CN 200680042074 A 20061021; DE 112006002796 T 20061021; EP 06805470 A 20061021; JP 2008539233 A 20061021; KR 20087011130 A 20080509; US 8483706 A 20061021