

Title (en)

TWO-GEAR TRANSMISSION FOR AN ELECTRICALLY DRIVEABLE MOTOR VEHICLE

Title (de)

ZWEI-GANG-GETRIEBE FÜR EIN ELEKTRISCH ANTREIBBARES KRAFTFAHRZEUG

Title (fr)

BOÎTE DE VITESSES À DEUX VITESSES POUR UN VÉHICULE À MOTEUR ÉLECTRIQUE

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Application

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Abstract (en)

[origin: WO2019149312A1] The invention relates to a two-gear transmission (10) for an electrically driveable motor vehicle, provided with an input shaft (12), which is connectable to an electric machine, for introducing a torque, an output shaft (14), which is connectable to a drive wheel, for delivering the torque, a low first gear (16) for transmitting a rotational speed of the input shaft (12) to the output shaft (14) at a first transmission ratio, a high second gear (18) for transmitting a rotational speed of the input shaft (12) to the output shaft (14) at a second transmission ratio lower than the first transmission ratio. The first gear (16) has a first input gearwheel (20) coupled to the input shaft (12) via a freewheel (28), which freewheel (28) locks in a torque-transmitting manner in the event of overrun of the input shaft (12) and interrupts torque transmission in the event of overrun of the first input gearwheel (20), and the second gear (18) has a second input gearwheel (24) coupled to the input shaft (12) via a centrifugal clutch (38). The invention thus permits comfortable power transmission in an electrically driveable motor vehicle.

IPC 8 full level

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