

Title (en)  
DRIVE DEVICE FOR AN ELECTRICALLY DRIVEN AXLE OF A MOTOR VEHICLE

Title (de)  
ANTRIEBSVORRICHTUNG FÜR EINE ELEKTRISCH ANGETRIEBENE ACHSE EINES KRAFTFAHRZEUGS

Title (fr)  
DISPOSITIF D'ENTRAÎNEMENT POUR UN ESSIEU À ENTRAÎNEMENT ÉLECTRIQUE D'UN VÉHICULE AUTOMOBILE

Publication  
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Application  
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Abstract (en)  
[origin: WO2020058235A1] The invention relates to a drive device (1) for an electrically driven axle (5) of a motor vehicle, comprising at least one electric machine (EM1, EM2) and a shiftable transmission (2) which is connected downstream of the at least one electric machine (EM1, EM2) in the direction of force flow in the traction mode and which is connected to a differential (3) for distributing the drive torque to the wheels (4) of the axle (5), wherein the transmission (2) comprises a first and a second planetary gear set (6, 7) which are connected one behind the other, wherein the drive of the transmission (2) is driven via an external toothing of the ring gear (8) of the first planetary gear set (6), wherein the output of the first planetary gear set (6) takes place via the planet carrier (9) which is connected to the sun gear (11) of the second planetary gear set (7) in a rotationally fixed manner, wherein the sun gear (10) of the first planetary gear set (6) can be detachably coupled to a housing (G) via a first switching element (14), wherein the ring gear (12) of the second planetary gear set (7) is coupled to a housing (G), wherein the output of the transmission (2) takes place via the planet carrier (13) of the second planetary gear set (7), and wherein a second shifting element (15) is provided, by the closure of which the first planetary gear set (6) of the transmission (2) can be blocked.

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Citation (search report)  
See references of WO 2020058235A1

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