

Title (en)
HYBRID TRANSMISSION UNIT HAVING PLANETARY WHEEL SETS FOR IMPLEMENTING TWO SERIAL AND FOUR PARALLEL MODES; AND MOTOR VEHICLE

Title (de)
HYBRIDE GETRIEBEEINHEIT MIT PLANETENRADSÄTZEN ZUM UMSETZEN ZWEIER SERIELLER SOWIE VIER PARALLELER MODI; SOWIE KRAFTFAHRZEUG

Title (fr)
UNITÉ DE TRANSMISSION HYBRIDE COMPRENANT DES TRAINS PLANÉTAIRES POUR COMMUTER ENTRE DEUX MODES SÉRIELS ET QUATRE MODES PARALLÈLES ; AINSI QUE VÉHICULE AUTOMOBILE

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Application
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Abstract (en)
[origin: WO202228901A1] The invention relates to a transmission unit (1) for a hybrid motor vehicle (2), comprising an input shaft (4) that can be connected to an internal combustion engine (3), a planetary gearing (5), which can be coupled to the input shaft (4), the planetary gearing (5) having a first planetary wheel set (6) and a second planetary wheel set (7), a first electric machine (8) the rotor (9) of which is rotationally fixedly coupled to the input shaft (5), a second electric machine (11) which is coupled with a component part (10) of the planetary gearing (5), and no more than four switching devices (12, 13, 14, 15), each of which forms a brake or a clutch, and each can be moved between an activated position and a deactivated position. The switching devices (12, 13, 14, 15) are used for switching various transmission ratios acting between the input shaft (4) and an output shaft (16) and/or between the second electric machine (11) and the output shaft (16). The no more than four switching devices (12, 13, 14, 15) are configured to implement four different transmission ratios in a drive state of the internal combustion engine (3), and two different transmission ratios in a drive state of the second electric machine (11), thereby implementing a serial operation as a result of their activated and deactivated positions. The invention also relates to a motor vehicle (2) comprising said transmission unit (1).

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