

Title (en)
PARALLEL GEARSHIFT TRANSMISSION OF A MOTOR VEHICLE

Title (de)
PARALLELSCHALTGETRIEBE EINES KRAFTFAHRZEUGES

Title (fr)
BOÎTE DE VITESSE PARALLÈLE D'UN VÉHICULE AUTOMOBILE

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Application
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Abstract (en)
[origin: WO2012159794A1] The invention relates to a parallel gearshift transmission of a motor vehicle, comprising a splitter group part (2) and a range group part (3), of which at least the splitter group part (2) is subdivided between two parallel transmission paths with countershafts (10 to 13; 12, 14, 15, 16; 14, 16, 19 to 22). Here, one of the transmission paths can be selected by actuation of a respectively associated powershift element (5, 6), such that a rotational movement of a drive input shaft (1; 23) can be transmitted to a countershaft (10, 11; 14, 16) with a speed increase with one of a plurality of stepped transmission ratios of the splitter group part (2) in accordance with the selection of one of the transmission paths, and in the further course can be converted into a rotational movement of a drive output shaft (4) with a speed increase with one of a plurality of range transmission ratios of the range group part (3). In order to now effect a rotational direction reversal, parallel countershafts (10 to 13; 12, 14, 15, 16; 14, 16, 19 to 22) can be coupled by means of individual gearwheel pairs (R1, R2) in accordance with an actuation of associated switching elements (SR1, SR2) in such a way that one countershaft (10, 11; 14, 16) at the drive output side of the splitter group part (2) in the power flow direction from the drive input shaft (1; 23) to the drive output shaft (4) is connected to the other countershaft (12, 13; 12, 15; 19, 21) on a drive input side of the range group part (3).

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