

Title (en)
MULTI-STAGE TRANSMISSION

Title (de)
MEHRSTUFENGETRIEBE

Title (fr)
BOÎTE DE VITESSES À RAPPORTS MULTIPLES

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Application
EP 13776775 A 20131010

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Abstract (en)
[origin: WO2014075851A1] The multi-stage transmission according to the invention comprises a drive input shaft (1), a drive output shaft (2), said shafts being arranged parallel to one another, three planetary gear sets, wherein the first planetary gear set (P1) is arranged coaxially with respect to a first axis defined by the drive input shaft (1) and the second and third planetary gear sets (P2, P3) are arranged coaxially with respect to a second axis which is arranged parallel to the first axis and which is defined by the drive output shaft (2), wherein the drive input shaft (1) is detachably connectable by means of a first clutch (13) to a third shaft (3) which is connected to the sun gear of the first planetary gear set (P1) and which can be coupled by means of a first brake (03) to the housing (G) of the transmission, wherein the drive input shaft (1) is detachably connectable by means of a second clutch (17) to a seventh shaft (7) which is connected to the internal gear of the first planetary gear set (P1) and a sixth shaft (6) is connected to the web of the first planetary gear set (P1) and is operatively connected by means of a second spur gear stage (S2) to the tenth shaft (10) which is connected to the internal gear of the third planetary gear set (P3), wherein the drive output shaft (2) is connected to the web of the second planetary gear set (P2) and a fourth shaft (4) is connected to the sun gear of the second planetary gear set (P2) and to the sun gear of the third planetary gear set (P3) and can be coupled by means of a second brake (04) to the housing (G), wherein the drive input shaft (1) is operatively connectable by means of an eighth and a ninth shaft (8, 9), a third or fifth clutch (18, 89) and by means of a first spur gear stage (S1) to the internal gear of the second planetary gear set (P2) and to the web of the third planetary gear set (P3), and wherein the third shaft (3) is operatively connectable by means of a fourth or sixth clutch (35, 15), a fifth and tenth shaft (5, 10) and a third spur gear stage (S3) to the internal gear of the third planetary gear set (P3).

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