

Title (en)  
DOUBLE CLUTCH TRANSMISSION HAVING A LAYSHAFT DESIGN

Title (de)  
DOPPELKUPPLUNGSGETRIEBE IN VORGELEGEBAUWEISE

Title (fr)  
BOÎTE DE VITESSES À DOUBLE EMBRAYAGE À RENVOI

Publication  
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Application  
**EP 11740914 A 20110803**

Priority  
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Abstract (en)  
[origin: WO2012034779A1] The invention relates to a double clutch transmission (1) having a layshaft design, comprising a central transmission shaft (2), a hollow transmission shaft (3) arranged concentrically with respect thereto, exactly one layshaft (4) and further comprising two load shifting elements (K1, K2). Two hollow shafts (8A, 8) are provided on the layshaft (4) and are arranged coaxially with respect thereto, wherein said hollow shafts can each be coupled in a rotationally fixed manner to the layshaft (4) via one of the switching devices (SE1, SE3) and are rotationally fixedly connected to the at least two gear wheels (21, 62 and 51, 91). A further hollow shaft (9A) is provided on the central transmission shaft (2) or the hollow transmission shaft (3) and is arranged concentrically with respect thereto, wherein said further hollow shaft can be connected to the central transmission shaft (2) or the hollow transmission shaft (3) by one of the switching devices (SE2) and is rotationally fixedly connected to the at least two further gear wheels (22, 61) of the gear stages (ZP2, ZP6). At least three transmission ratios can be represented by engaging three of the gear stages ((ZP5, ZP9, ZP3), (ZP4, ZP2, ZP6), (ZP5, ZP9, ZPR); (ZP5, ZP9, ZP3), (ZP8, ZP6, ZP2), (ZP5, ZP9, ZPR)) on the shift element side in the power flow in each case, via which in each case one transmission ratio can at least partly be represented by the respective sole engagement in the power flow on the shift element side.

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