

Title (en)  
9-SPEED PLANETARY GEARBOX

Title (de)  
9 GANG PLANETENGRIEBE

Title (fr)  
BOÎTE DE VITESSES À TRAINS PLANÉTAIRES À 9 RAPPORTS

Publication  
**EP 2923114 A1 20150930 (DE)**

Application  
**EP 13780150 A 20131024**

Priority  
• DE 102012221234 A 20121121  
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Abstract (en)  
[origin: WO2014079644A1] The invention relates to a gearbox comprising one input shaft (1), one output shaft (2), a casing (G), a first planetary gear set (PR1), a second planetary gear set (PR2) and a third planetary gear set (PR3), six shift elements, comprising a first brake (B1), a second brake (B2), and a first clutch (K1), a second clutch (K2), a third clutch (K3, K3', K3'', K3''') and a fourth clutch (K4, K4'), wherein the shift elements can be actuated selectively, whereby nine forward gears and one reverse gear can be achieved by different transmission ratios between the input shaft (1) and the output shaft (2). Each planetary gear set (PR1, PR2, PR3) comprises at least one sun gear (S1, S2, S3), one planet gear, one planet carrier (PT1, PT2, PT3) and one ring gear (H1, H2, H3). The gearbox is characterized in that the input shaft (1) and the output shaft (2) are arranged axially offset to one another and the input shaft (1) can be connected via the second clutch (K2) to the ring gear (H2) of the second planetary gear set (PR2) and to the sun gear (S3) of the third planetary gear set (PR3) and the input shaft (1) can be connected via the first clutch (K1) to the second brake (B2) and to the sun gear (S2) of the second planetary gear set (PR1), wherein the sun gear (S2) of the second planetary gear set (PR2) and the second brake (B2) are also connected together.

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