

Title (en)  
AUTOMATED TRANSMISSION

Title (de)  
AUTOMATISIERTES SCHALTGETRIEBE

Title (fr)  
BOITE DE VITESSES AUTOMATISÉE

Publication  
**EP 1938002 A1 20080702 (DE)**

Application  
**EP 06805865 A 20060926**

Priority  
• EP 2006009337 W 20060926  
• DE 102005050067 A 20051019

Abstract (en)  
[origin: WO2007045333A1] The invention relates to an automatic transmission of a motor vehicle, comprising an input shaft, an output shaft, arranged coaxially to the input shaft, and a plurality of gears that can be selectively shifted via clutches associated therewith. The input shaft is connected to a driving engine via an engine clutch that can be engaged and disengaged. An additional controlled friction clutch is provided as the powershift clutch for optionally bridging at least one of the clutches. The aim of the invention is to improve a transmission of the aforementioned kind with regard to its performance and for retrofitting an existing transmission. According to the invention, the powershift clutch (K') is effective directly between the driving engine (M) and the output shaft (W2 or W5). For this purpose, the powershift clutch (K') is arranged on the input end of the clutch (1, 1') in coaxial relation to the engine clutch (K). The gear shafts (W1 or W1, W2, W4) arranged axially between the powershift clutch (K') and the output shaft (W2 or W5) are configured as hollow shafts. The output shaft (W2 or W5) is extended within said gear shafts (W1 or W1, W2, W4) up to the part of the powershift clutch (K') on the transmission end.

IPC 8 full level  
**F16H 37/04** (2006.01)

CPC (source: EP KR US)  
**F16H 61/04** (2013.01 - EP KR US); **F16H 61/688** (2013.01 - EP US); **F16H 3/0915** (2013.01 - EP US); **F16H 37/042** (2013.01 - EP US); **F16H 2061/0407** (2013.01 - EP US); **F16H 2061/0425** (2013.01 - EP US); **F16H 2061/0429** (2013.01 - EP US); **Y10T 74/19251** (2015.01 - EP US)

Citation (search report)  
See references of WO 2007045333A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007045333 A1 20070426**; BR PI0617736 A2 20110802; CN 101292101 A 20081022; DE 102005050067 A1 20070503; EP 1938002 A1 20080702; JP 2009511843 A 20090319; KR 20080058388 A 20080625; RU 2008119408 A 20100120; US 2008245168 A1 20081009

DOCDB simple family (application)  
**EP 2006009337 W 20060926**; BR PI0617736 A 20060926; CN 200680038996 A 20060926; DE 102005050067 A 20051019; EP 06805865 A 20060926; JP 2008535919 A 20060926; KR 20087008839 A 20080414; RU 2008119408 A 20060926; US 8994306 A 20060926