

Title (en)  
GEARBOX MODULE

Title (de)  
GETRIEBEBAUEINHEIT

Title (fr)  
MODULE DE BOITE DE VITESSES

Publication  
**EP 1664592 A1 20060607 (DE)**

Application  
**EP 04764724 A 20040902**

Priority  
• EP 2004009765 W 20040902  
• DE 10343972 A 20030919

Abstract (en)  
[origin: DE10343972A1] The unit (1) comprises an input (E) and an output area (A). A starter element (2) with its own input (5) and an output (6) connected to the output area (A) is positioned adjacent to the input area (E). A device for switching gears (3) comprises two inputs (7, 8) and an output (9) connected to the output area (A). The first input (7) of the device for switching gears (3) is connected to the output of the starter element (6) and a second input (8) is connected to the input of the starter element (5). The input units (7, 8) are joined with a synchronized clutch (16) forming two output branches (10, 11). The synchronized clutches (16, 17) can be used separately or as a unit for the transmission of power.

IPC 1-7  
**F16H 47/06**; **F16H 3/12**

IPC 8 full level  
**F16H 3/097** (2006.01); **F16H 3/12** (2006.01); **F16H 47/06** (2006.01)

CPC (source: EP US)  
**F16H 3/097** (2013.01 - EP US); **F16H 3/12** (2013.01 - EP US); **F16H 3/126** (2013.01 - EP US); **F16H 47/06** (2013.01 - EP US); **F16H 2003/007** (2013.01 - EP US); **F16H 2003/0933** (2013.01 - EP US); **Y10T 74/19149** (2015.01 - EP US); **Y10T 74/19223** (2015.01 - EP US); **Y10T 74/19233** (2015.01 - EP US)

Citation (search report)  
See references of WO 2005040640A1

Citation (examination)  
• US 4375171 A 19830301 - MORSCHECK TIMOTHY J  
• US 6186029 B1 20010213 - MCQUINN TED [US]

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**DE 10343972 A1 20050428**; EP 1664592 A1 20060607; JP 2007506047 A 20070315; US 2007193382 A1 20070823; US 7707910 B2 20100504; WO 2005040640 A1 20050506

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**DE 10343972 A 20030919**; EP 04764724 A 20040902; EP 2004009765 W 20040902; JP 2006526544 A 20040902; US 57235004 A 20040902