

Title (en)

MOTOR VEHICLE DRIVE UNIT

Title (de)

ANTRIEBSEINHEIT FÜR KRAFTFAHRZEUGE

Title (fr)

UNITE DE COMMANDE DE VEHICULE A MOTEUR

Publication

EP 1366311 A1 20031203 (EN)

Application

EP 02710648 A 20020211

Priority

- SE 0200232 W 20020211
- SE 0100435 A 20010212

Abstract (en)

[origin: WO02064996A1] Drive unit for motor vehicles, comprising an internal combustion engine (1) and a gearbox (9) connected to the engine via an automated clutch (3), said gearbox (9) consisting of a non-synchronized stepped main group and thereafter a two-range synchronized range group with a free position between its range positions. The clutch and the gearbox are controlled by an electronic control unit (45), to which there are fed signals representing the selected gear from a gear selector (46) and signals representing various engine and vehicle data. The control unit is disposed, when the vehicle is standing still and the gear selector in the free position, to keep the clutch engaged and the range group in the free position. When a gear is selected, the clutch is first disengaged, whereafter the range group is moved to one of the engaged positions to brake the intermediate shaft and make possible engagement of the gear in the main group. After engagement in the main group, the clutch is engaged.

IPC 1-7

F16H 3/12; F16H 61/00

IPC 8 full level

F16H 3/091 (2006.01); **F16H 3/54** (2006.01); **F16H 37/04** (2006.01); **F16H 61/04** (2006.01); **F16H 61/70** (2006.01); **F16H 3/00** (2006.01);
F16H 59/18 (2006.01); **F16H 59/40** (2006.01); **F16H 59/44** (2006.01); **F16H 59/56** (2006.01); **F16H 59/70** (2006.01); **F16H 61/686** (2006.01);
F16H 61/688 (2006.01)

CPC (source: EP)

F16H 61/0403 (2013.01); **F16H 61/702** (2013.01); **F16H 3/006** (2013.01); **F16H 3/0915** (2013.01); **F16H 37/046** (2013.01); **F16H 59/18** (2013.01);
F16H 59/40 (2013.01); **F16H 59/44** (2013.01); **F16H 59/56** (2013.01); **F16H 59/70** (2013.01); **F16H 61/682** (2013.01); **F16H 61/70** (2013.01);
F16H 2037/045 (2013.01); **F16H 2059/366** (2013.01); **F16H 2061/0411** (2013.01); **F16H 2200/006** (2013.01); **F16H 2306/48** (2013.01);
F16H 2312/00 (2013.01); **F16H 2312/02** (2013.01)

Citation (search report)

See references of WO 02064996A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 02064996 A1 20020822; BR 0207038 A 20040225; EP 1366311 A1 20031203; JP 2004522910 A 20040729; SE 0100435 D0 20010212;
SE 0100435 L 20020813; SE 518332 C2 20020924

DOCDB simple family (application)

SE 0200232 W 20020211; BR 0207038 A 20020211; EP 02710648 A 20020211; JP 2002564280 A 20020211; SE 0100435 A 20010212