

Title (en)
DRIVE MEANS FOR MOTOR VEHICLES

Title (de)
ANTRIEBSMITTEL FÜR KRAFTFAHRZEUGE

Title (fr)
MOYEN D'ENTRAÎNEMENT POUR VÉHICULES À MOTEUR

Publication
EP 1390224 A1 20040225 (EN)

Application
EP 02766712 A 20020425

Priority
• SE 0200812 W 20020425
• SE 0101497 A 20010427

Abstract (en)
[origin: WO02087916A1] Drive unit for motor vehicles, comprising an internal combustion engine (1) and a non-synchronized auto-shift gearbox (9), which has an intermediate shaft 850) and is connected to the engine via an automated clutch (3). 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 gear selector is in the neutral position, the clutch is engaged and the vehicle speed is so low the synchronisation by means of the engine requires an engine rpm lower than the engine idle rpm, to first disengage the clutch, then brake the intermediate shaft to a standstill, thereafter engage the clutch slowly and finally engage the selected gear, when the input shaft has reached a suitable rpm range for engagement of the selected gear.

IPC 1-7
B60K 41/06; **F16H 3/12**; **F16H 61/04**

IPC 8 full level
B60W 10/02 (2006.01); **B60W 10/06** (2006.01); **B60W 10/10** (2012.01); **B60W 30/18** (2012.01); **F16H 3/12** (2006.01); **F16H 61/04** (2006.01); **F16H 3/091** (2006.01); **F16H 37/04** (2006.01); **F16H 61/70** (2006.01)

CPC (source: EP)
B60W 10/02 (2013.01); **B60W 10/06** (2013.01); **B60W 10/10** (2013.01); **B60W 10/11** (2013.01); **B60W 10/111** (2013.01); **B60W 30/1819** (2013.01); **B60W 30/19** (2013.01); **F16H 3/12** (2013.01); **F16H 61/0403** (2013.01); **B60W 2510/0225** (2013.01); **B60W 2510/0638** (2013.01); **B60W 2510/1015** (2013.01); **B60W 2520/10** (2013.01); **B60W 2540/10** (2013.01); **B60W 2710/022** (2013.01); **B60W 2710/023** (2013.01); **B60W 2710/065** (2013.01); **B60W 2710/1016** (2013.01); **F16H 3/0915** (2013.01); **F16H 37/046** (2013.01); **F16H 61/682** (2013.01); **F16H 61/70** (2013.01); **F16H 63/46** (2013.01); **F16H 2061/0411** (2013.01); **F16H 2306/48** (2013.01)

Citation (search report)
See references of WO 02087916A1

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 02087916 A1 20021107; EP 1390224 A1 20040225; SE 0101497 D0 20010427; SE 0101497 L 20021028; SE 518960 C2 20021210

DOCDB simple family (application)
SE 0200812 W 20020425; EP 02766712 A 20020425; SE 0101497 A 20010427