

Title (en)
DOUBLE-CLUTCH GEARBOX FOR COMMERCIAL VEHICLES AND METHOD FOR SHIFTING SAME

Title (de)
DOPPELKUPPLUNGSGETRIEBE FÜR NUTZFAHRZEUGE UND VERFAHREN ZUR SCHALTUNG DESSELBEN

Title (fr)
TRANSMISSION À DOUBLE EMBRAYAGE POUR VÉHICULES UTILITAIRES ET PROCÉDÉ PERMETTANT UNE SÉLECTION DE VITESSE

Publication
EP 2880338 A1 20150610 (DE)

Application
EP 13735010 A 20130708

Priority

- DE 102012213517 A 20120801
- EP 2013064339 W 20130708

Abstract (en)
[origin: WO2014019808A1] The invention relates to an automated double-clutch gearbox for commercial vehicles with a double clutch (64), a main gearbox (2), a range group (6) and two layshafts (14, 16), wherein the double clutch (64) consists of two clutches (62, 68) and each clutch (62, 68) is connected to a respective gearbox input shaft (60, 66), wherein the second gearbox input shaft (60), which is connected to the second clutch (68), is formed as a hollow shaft and runs coaxially with the first gearbox input shaft (66), which is connected to the first clutch (62), wherein the main gearbox shaft (76) is arranged coaxially between the first gearbox input shaft (66) and the output shaft (40), wherein the main gearbox (2) consists of a plurality of forward gear planes (48, 50, 52, 54, 56) and a reverse gear plane (58), wherein all shifting elements (70, 72, 74, 76, 78) are positioned coaxially to the gearbox input shafts (60, 66) and the reverse gear plane (58) adjoins the range group (6), wherein shifting for a direct drive (G5, G11) is performed via an independent one-sided shifting element or is implemented via a common shifting element (74) with the three shifting positions: left gear plane (drive output constant) (56), right gear plane (reverse constant) (58) and direct drive (G5, G11), by connecting the input shaft (66) to the gearbox main shaft (76).

IPC 8 full level
F16H 37/04 (2006.01); **F16D 11/00** (2006.01); **F16D 11/14** (2006.01); **F16D 21/02** (2006.01); **F16H 3/00** (2006.01); **F16H 61/688** (2006.01); **F16H 63/30** (2006.01)

CPC (source: EP)
F16D 11/14 (2013.01); **F16D 21/02** (2013.01); **F16H 3/006** (2013.01); **F16H 37/046** (2013.01); **F16H 63/30** (2013.01); **F16D 21/04** (2013.01); **F16D 2011/002** (2013.01); **F16H 3/095** (2013.01); **F16H 3/097** (2013.01); **F16H 57/0037** (2013.01); **F16H 61/688** (2013.01); **F16H 2063/3093** (2013.01); **F16H 2200/0078** (2013.01); **F16H 2200/0095** (2013.01)

Citation (search report)
See references of WO 2014019808A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014019808 A1 20140206; DE 102012213517 A1 20140206; EP 2880338 A1 20150610

DOCDB simple family (application)
EP 2013064339 W 20130708; DE 102012213517 A 20120801; EP 13735010 A 20130708