

Title (en)  
VEHICULAR DRIVE APPARATUS

Title (de)  
ANTRIEBSVORRICHTUNG FÜR EIN FAHRZEUG

Title (fr)  
DISPOSITIF D'ENTRAÎNEMENT D'UN VÉHICULE

Publication  
**EP 2913504 A4 20160420 (EN)**

Application  
**EP 13848773 A 20130924**

Priority  
• JP 2012235365 A 20121025  
• JP 2013075756 W 20130924

Abstract (en)  
[origin: EP2913504A1] Provided is a vehicular drive apparatus such that the development of shock upon engagement of a manual clutch can be decreased in a manual clutch-equipped vehicle. The apparatus includes a clutch-synchronizing timing engine torque calculating unit that calculates a clutch-synchronizing timing engine torque on the basis of a clutch transmitting torque; and an engine control unit that executes torque balancing control by controlling an engine so as to achieve the clutch-synchronizing timing engine torque when the absolute value of a clutch difference rotation speed, which is a difference rotation speed between an output shaft and a transmission input shaft during clutch synchronization, is converged to or below a first prescribed differential rotation speed.

IPC 8 full level  
**F02D 41/04** (2006.01); **F02D 29/00** (2006.01); **F02D 29/02** (2006.01); **F02D 41/02** (2006.01); **F02D 41/14** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP)  
**F02D 29/02** (2013.01); **F02D 41/022** (2013.01); **F02D 41/1497** (2013.01); **F02D 2200/101** (2013.01)

Citation (search report)  
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• [X] JP 2004270624 A 20040930 - MITSUBISHI FUSO TRUCK & BUS  
• [A] US 2009325759 A1 20091231 - IWAO NOBUYUKI [JP], et al  
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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

DOCDB simple family (publication)  
**EP 2913504 A1 20150902**; **EP 2913504 A4 20160420**; BR 112015008537 A2 20170704; CN 104736822 A 20150624;  
IN 3779DEN2015 A 20151002; JP 2014084815 A 20140512; JP 5849930 B2 20160203; WO 2014065061 A1 20140501

DOCDB simple family (application)  
**EP 13848773 A 20130924**; BR 112015008537 A 20130924; CN 201380054749 A 20130924; IN 3779DEN2015 A 20150504;  
JP 2012235365 A 20121025; JP 2013075756 W 20130924