

Title (en)  
VEHICULAR DRIVE APPARATUS

Title (de)  
ANTRIEBSVORRICHTUNG FÜR EIN FAHRZEUG

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

Publication  
**EP 2913503 A1 20150902 (EN)**

Application  
**EP 13848583 A 20130924**

Priority  
• JP 2012235363 A 20121025  
• JP 2013075755 W 20130924

Abstract (en)  
Provided is a manual clutch-equipped vehicular drive apparatus such that engine stall can be prevented, and an appropriate engine r.p.m. can be automatically maintained. The apparatus includes a clutch sensor that acquires a clutch transmission torque being produced by a clutch; and a control unit that calculates a starting engine torque on the basis of the clutch transmission torque, and that controls an engine so as to achieve the starting engine torque when a clutch differential rotational speed is not less than a prescribed differential rotational speed and when the engine rotational speed is less than a first prescribed rotational speed.

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

CPC (source: EP)  
**F02D 29/02** (2013.01); **F02D 41/022** (2013.01); **F02D 41/04** (2013.01); **F02D 45/00** (2013.01); **F02D 41/0205** (2013.01); **F02D 2250/18** (2013.01); **F02N 2200/103** (2013.01); **F02N 2250/06** (2013.01)

Cited by  
EP3483023A1; DE102017219971A1

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)  
**EP 2913503 A1 20150902**; **EP 2913503 A4 20160420**; BR 112015008449 A2 20170704; CN 104755731 A 20150701; CN 104755731 B 20170804; IN 3778DEN2015 A 20151002; JP 2014084813 A 20140512; JP 5849928 B2 20160203; WO 2014065060 A1 20140501

DOCDB simple family (application)  
**EP 13848583 A 20130924**; BR 112015008449 A 20130924; CN 201380054696 A 20130924; IN 3778DEN2015 A 20150504; JP 2012235363 A 20121025; JP 2013075755 W 20130924