

Title (en)
VEHICULAR DRIVE APPARATUS

Title (de)
ANTRIEBSVORRICHTUNG FÜR EIN FAHRZEUG

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

Publication
EP 2913505 A4 20160420 (EN)

Application
EP 13849221 A 20130924

Priority
• JP 2012235364 A 20121025
• JP 2013075759 W 20130924

Abstract (en)
[origin: EP2913505A1] A vehicular drive apparatus with a manual clutch in which at the start of the vehicle, an excess engine rotation speed increase can be prevented. The vehicular drive apparatus includes a control portion which executes a torque-down control by controlling the engine so that the engine torque becomes the start timing engine torque when the clutch difference rotation speed is equal to or more than a defined difference rotation speed and the engine rotation speed is equal to or more than a first defined rotation speed by calculating the start timing engine torque based on the clutch transmitting torque from the clutch sensor which obtains the clutch transmitting torque generated by the clutch.

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 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)
• [Y] DE 10105321 A1 20020808 - DAIMLER CHRYSLER AG [DE]
• [Y] DE 102007023857 A1 20081127 - BAYERISCHE MOTOREN WERKE AG [DE]
• [A] US 6142909 A 20001107 - DREXL HANS-JUERGEN [DE], et al
• [A] US 2008009391 A1 20080110 - SCELEERS HERVE [FR]
• [A] EP 1428716 A2 20040616 - TOYOTA MOTOR CO LTD [JP]
• See references of WO 2014065062A1

Cited by
EP3715610A4; EP3715609A4; US11378024B2; US11041451B2

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 2913505 A1 20150902; EP 2913505 A4 20160420; BR 112015008382 A2 20170704; CN 104736823 A 20150624;
IN 3777DEN2015 A 20151002; JP 2014084814 A 20140512; JP 5849929 B2 20160203; WO 2014065062 A1 20140501

DOCDB simple family (application)
EP 13849221 A 20130924; BR 112015008382 A 20130924; CN 201380054778 A 20130924; IN 3777DEN2015 A 20150504;
JP 2012235364 A 20121025; JP 2013075759 W 20130924