

Title (en)
HYBRID DRIVE APPARATUS

Title (de)
HYBRIDANTRIEBSVORRICHTUNG

Title (fr)
DISPOSITIF PROPULSEUR HYBRIDE

Publication
EP 2059405 A2 20090520 (DE)

Application
EP 07801945 A 20070829

Priority
• EP 2007007523 W 20070829
• DE 102006041159 A 20060901

Abstract (en)
[origin: WO2008025520A2] The invention relates to a hybrid drive apparatus for motor vehicles, having an internal combustion engine and an electrical drive machine which are connected one downstream of the other and act on at least one output shaft which drives an axle differential. In order to achieve a drive apparatus which is favourable in terms of efficiency and physical size, the invention proposes that at least one constant gear is additionally provided by means of transmission stages (50, 52), which constant gear bypasses the electrical drive machine (14) and acts on the output shaft (40) selectively directly from the internal combustion engine (10).

IPC 8 full level
B60K 6/40 (2007.10); **B60K 6/448** (2007.10); **B60K 6/48** (2007.10)

CPC (source: EP US)
B60K 6/40 (2013.01 - EP US); **B60K 6/442** (2013.01 - EP US); **B60K 6/46** (2013.01 - US); **B60K 6/48** (2013.01 - US);
B60K 6/547 (2013.01 - EP US); **B60L 15/20** (2013.01 - EP US); **B60L 50/16** (2019.01 - EP US); **B60L 50/61** (2019.01 - EP US);
B60K 1/02 (2013.01 - EP US); **B60K 2006/262** (2013.01 - EP US); **B60L 2240/421** (2013.01 - EP US); **B60L 2240/441** (2013.01 - EP US);
B60L 2240/486 (2013.01 - EP US); **B60L 2270/145** (2013.01 - EP US); **Y02T 10/62** (2013.01 - EP US); **Y02T 10/64** (2013.01 - EP US);
Y02T 10/70 (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 10/72** (2013.01 - EP US)

Citation (search report)
See references of WO 2008025520A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2008025520 A2 20080306; WO 2008025520 A3 20080417; CN 101511625 A 20090819; CN 101511625 B 20130501;
DE 102006041159 A1 20080320; DE 102006041159 B4 20120419; EP 2059405 A2 20090520; US 2010326751 A1 20101230

DOCDB simple family (application)
EP 2007007523 W 20070829; CN 200780032616 A 20070829; DE 102006041159 A 20060901; EP 07801945 A 20070829;
US 43955007 A 20070829