

Title (en)
POWER-SPLIT TRANSMISSION

Title (de)
LEISTUNGSVERZWEIGTES GETRIEBE

Title (fr)
BOITE DE VITESSES A DIVISION DE PUISSANCE

Publication
EP 1709350 A1 20061011 (DE)

Application
EP 04741129 A 20040717

Priority
• EP 2004008027 W 20040717
• DE 102004004139 A 20040128

Abstract (en)
[origin: WO2005073599A1] Disclosed is a power-split transmission comprising a variator (1) that is embodied as a toroidal or frictional wheel-type variator, belt or chain variator, bevel ring-type transmission, or infinitely variable hydrostatic transmission. Said power-split transmission comprises a variator output transmission (2) that is provided with a planetary gear set (9), and an additional planetary gear set (3) which is used as a dividing transmission when mounted upstream of the variator in the direction of power flux while being used as a summing transmission for the power branches when mounted downstream of the variator in the direction of power flux. The variator output transmission (2), the variator (1), and the additional planetary gear set (3) are disposed in a coaxial direction while the variator output transmission (2), the variator (1), and the planetary gear set (3) are arranged according to one of the following patterns in the output direction: variator (1) variator output transmission (2) planetary gear set (3); variator (1) planetary gear set (3) variator output transmission (2); planetary gear set (3) variator (1) variator output transmission (2); planetary gear set (3) variator output transmission (2) variator (1); variator output transmission (2) planetary gear set (3) variator (1); variator output transmission (2) variator (1) planetary gear set (3).

IPC 8 full level
F16H 37/08 (2006.01)

CPC (source: EP KR US)
F16H 37/06 (2013.01 - KR); **F16H 37/08** (2013.01 - KR); **F16H 37/086** (2013.01 - EP US); **F16H 2037/0886** (2013.01 - EP US)

Citation (search report)
See references of WO 2005073599A1

Citation (examination)
• DE 10231235 A1 20040122 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
• WO 9834051 A1 19980806 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE], et al

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

DOCDB simple family (publication)
WO 2005073599 A1 20050811; CN 1906430 A 20070131; DE 102004004139 A1 20050825; EP 1709350 A1 20061011; JP 2007519867 A 20070719; KR 20070006710 A 20070111; US 2008242468 A1 20081002

DOCDB simple family (application)
EP 2004008027 W 20040717; CN 200480041132 A 20040717; DE 102004004139 A 20040128; EP 04741129 A 20040717; JP 2006549886 A 20040717; KR 20067014983 A 20060725; US 58595704 A 20040717