Title (en)

METHOD FOR DETERMINING THE ROTATIONAL SPEED OF THE MAIN SHAFT OF A TRANSMISSION, AND TRANSMISSION COMPRISING A DEVICE FOR DETECTING ROTATIONAL SPEED

Title (de)

VERFAHREN ZUR ERMITTLUNG DER DREHZAHL DER HAUPTWELLE EINES GETRIEBES UND GETRIEBE MIT EINER DREHZAHLABGRIFFSEINRICHTUNG

Title (fr)

PROCÉDÉ POUR DÉTERMINER LA VITESSE DE ROTATION DE L'ARBRE PRINCIPAL D'UNE BOÎTE DE VITESSES ET BOÎTE DE VITESSES ÉQUIPÉE D'UN DISPOSITIF DE DÉTECTION DE LA VITESSE DE ROTATION

Publication

EP 2021810 A1 20090211 (DE)

Application

EP 07728473 A 20070425

Priority

• EP 2007054017 W 20070425
• DE 102006023552 A 20060519

Abstract (en)

[origin: WO2007134933A1] The invention relates to a method for determining the rotational speed of the main shaft (3) of a transmission. According to the method, the main shaft (3) is connected to an output shaft (4) by means of a planetary gear set (17), the main shaft (3) being rotationally fixed to the sun gear (18) and the output shaft (4) being rotationally fixed to the planet gear carrier (20). The inventive method comprises the following steps: the rotational speed ($n_{Hohlrad}$) of the ring gear (22) is detected, the rotational speed ($n_{Abtrieb}$) of the output shaft or the planet gear carrier (20) is detected, and the rotational speed ($n_{Hauptwelle}$) of the main shaft (3) is calculated from the rotational speed ($n_{Hohlrad}$) of the ring gear and the rotational speed ($n_{Abtrieb}$) of the output shaft or the planet gear carrier (20). The invention also relates to a transmission comprising a device for detecting rotational speed.

IPC 8 full level

G01P 3/00 (2006.01)

CPC (source: EP US)

F16H 59/38 (2013.01 - EP US); **G01P 3/48** (2013.01 - EP US); **G01P 3/60** (2013.01 - EP US)

Citation (search report)

See references of WO 2007134933A1

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)

DE 102006023552 A1 20071122; BR PI0711917 A2 20120214; CN 101449170 A 20090603; CN 101449170 B 20110511; EP 2021810 A1 20090211; JP 2009537753 A 20091029; RU 2008150050 A 20100627; US 2009280948 A1 20091112; US 8050832 B2 20111101; WO 2007134933 A1 20071129

DOCDB simple family (application)

DE 102006023552 A 20060519; BR PI0711917 A 20070425; CN 200780018281 A 20070425; EP 07728473 A 20070425; EP 2007054017 W 20070425; JP 2009510390 A 20070425; RU 2008150050 A 20070425; US 30086807 A 20070425