

Title (en)

DIFFERENTIAL GEAR FOR A DRIVE AXLE OF A MOTOR VEHICLE

Title (de)

DIFFERENZIALGETRIEBE FÜR EINE ANTRIEBSACHSE EINES KRAFTFAHRZEUGS

Title (fr)

ENGRENAGE DIFFÉRENTIEL POUR ESSIEU MOTEUR D'UN VÉHICULE AUTOMOBILE

Publication

**EP 3033550 A1 20160622 (DE)**

Application

**EP 14745086 A 20140730**

Priority

- DE 102013013693 A 20130816
- EP 2014002083 W 20140730

Abstract (en)

[origin: WO2015022053A1] The invention relates to a differential gear for a drive axle of a motor vehicle, having a driven differential case (12), which has effect on a carrier (24), particularly on a driving pin, via a coupling block (26) that is guided in a rotationally fixed but axially movable manner, on which carrier (24) planetary wheels (22) are mounted which interlock with outputting output wheels (20), wherein the output wheels (20) output on output shafts (16, 18) on both sides, and having a torque-dependent locking device for shifting the driving torque by means of at least one coupling device (28) integrated in the differential case (12), which coupling device (28) can additionally be actuated via at least one actuator (34; 44), independently of the driving torque. According to the invention, the at least one actuator (34; 44) is arranged in the region of at least one of the output shafts (16, 18) and has effect on the coupling device (28) by means of at least one transfer means (38, 40).

IPC 8 full level

**F16H 48/30** (2012.01); **F16H 48/32** (2012.01); **F16H 48/34** (2012.01)

CPC (source: EP US)

**F16H 48/08** (2013.01 - EP US); **F16H 48/22** (2013.01 - EP US); **F16H 48/30** (2013.01 - US); **F16H 48/32** (2013.01 - US); **F16H 48/34** (2013.01 - US); **F16H 48/295** (2013.01 - EP US)

Citation (search report)

See references of WO 2015022053A1

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)

**WO 2015022053 A1 20150219**; CN 105452730 A 20160330; CN 105452730 B 20180213; DE 102013013693 A1 20150219; DE 102013013693 B4 20201008; EP 3033550 A1 20160622; US 2016186849 A1 20160630; US 9945465 B2 20180417

DOCDB simple family (application)

**EP 2014002083 W 20140730**; CN 201480045287 A 20140730; DE 102013013693 A 20130816; EP 14745086 A 20140730; US 201414911779 A 20140730