

Title (en)

SENSOR DEVICE HAVING A TORQUE SENSOR DEVICE AND HAVING AN INCREMENTAL SENSOR DEVICE AND MOTOR VEHICLE

Title (de)

SENSORVORRICHTUNG MIT EINER DREHMOMENTSENSOREINRICHTUNG UND EINER INKREMENTALSENSOREINRICHTUNG UND KRAFTFAHRZEUG

Title (fr)

DISPOSITIF CAPTEUR POURVU D'UN ORGANE CAPTEUR DU COUPLE ET D'UN ORGANE CAPTEUR DE TYPE INCRÉMENTAL, ET VÉHICULE À MOTEUR

Publication

EP 2984466 A1 20160217 (DE)

Application

EP 14716847 A 20140411

Priority

- DE 102013006379 A 20130413
- EP 2014057435 W 20140411

Abstract (en)

[origin: WO2014167118A1] The invention relates to a sensor device (1) for a shaft, in particular a steering shaft, of a motor vehicle, comprising a torque sensor device (100) for detecting a torque applied to the shaft, wherein the torque sensor device (100) has a magnetic stator, which is designed to conduct magnetic flux and comprises two stator parts (14, 15) arranged at a distance from each other along an axis (41), which stator parts each have a ring disk (18, 19) arranged perpendicular to the axis (41), and comprising an incremental sensor device (40), which has a transmitting element (46) connected to the stator in a rotationally fixed manner and a receiving element and which is designed to output a signal pulse on the basis of a relative motion between the transmitting element (46) and the receiving element at predetermined angular intervals of the shaft, wherein a respective plane (42, 43) arranged perpendicular to the axis (41) is defined by each of the ring disks (18, 19) of the magnetic stator and the transmitting element (46) of the incremental sensor device (40) is arranged axially between the planes (42, 43).

IPC 8 full level

G01D 5/245 (2006.01); **G01L 3/10** (2006.01)

CPC (source: EP)

B62D 6/10 (2013.01); **G01L 3/104** (2013.01)

Citation (search report)

See references of WO 2014167118A1

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)

DE 102013006379 A1 20141016; EP 2984466 A1 20160217; WO 2014167118 A1 20141016

DOCDB simple family (application)

DE 102013006379 A 20130413; EP 14716847 A 20140411; EP 2014057435 W 20140411