

Title (en)
FLOATING BEARING, STEERING GEAR, AND STEERING SYSTEM

Title (de)
LOSLAGER, LENKGETRIEBE UND LENKSYSTEM

Title (fr)
PALIER LIBRE, MÉCANISME DE DIRECTION ET SYSTÈME DE DIRECTION

Publication
EP 3634834 A1 20200415 (DE)

Application
EP 18725461 A 20180515

Priority

- DE 102017209563 A 20170607
- EP 2018062446 W 20180515

Abstract (en)
[origin: WO2018224248A1] The invention relates to a floating bearing for a steering gear of a motor vehicle, comprising a rotary bearing (10) having an inner bearing ring (11) for receiving a screw pinion shaft (4) of the steering gear, and an outer bearing ring (12) built into a bearing sleeve (26). Furthermore, the bearing sleeve (26) interacts with a guiding element (29) and the guiding element (29) with a holding element (32) provided for fixed integration into a housing (1) of the steering gear, in such a way that the bearing sleeve (26) can be moved in relation to the holding element (32), in a first direction oriented radially to the longitudinal axis (25) of the bearing sleeve (26), when the screw pinion shaft (4) is not loaded with torque, whereas such a relative movement is prevented when the screw pinion shaft (4) is loaded with torque, by moving the bearing sleeve (26) in relation to the holding element (32), in a second direction that is likewise oriented radially to the longitudinal axis (26) of the bearing sleeve and also perpendicularly to the first direction, whereby the guiding element (29) is tilted in a guiding opening (33) of the holding element (32) or the bearing sleeve (26).

IPC 8 full level
B62D 5/04 (2006.01)

CPC (source: EP US)
B62D 3/12 (2013.01 - US); **B62D 5/0409** (2013.01 - EP US); **F16C 23/06** (2013.01 - EP US); **F16H 1/16** (2013.01 - US); **F16H 55/22** (2013.01 - EP); **F16H 55/24** (2013.01 - EP US); **B62D 3/02** (2013.01 - US); **F16C 2326/24** (2013.01 - EP US)

Citation (search report)
See references of WO 2018224248A1

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 102017209563 A1 20181213; CN 110691729 A 20200114; CN 110691729 B 20220510; EP 3634834 A1 20200415; JP 2020522432 A 20200730; JP 6856780 B2 20210414; US 11524714 B2 20221213; US 2020180677 A1 20200611; WO 2018224248 A1 20181213

DOCDB simple family (application)
DE 102017209563 A 20170607; CN 201880037875 A 20180515; EP 18725461 A 20180515; EP 2018062446 W 20180515; JP 2019567652 A 20180515; US 201816610672 A 20180515