

Title (en)

BEARING BUSH ASSEMBLY FOR A TELESCOPIC STEERING SHAFT AND STEERING SYSTEM EQUIPPED THEREWITH

Title (de)

LAGERBUCHSEN-ANORDNUNG FÜR EINE TELESKOPARTIGE LENKWELLE UND DAMIT AUSGESTATTETES LENKSYSTEM

Title (fr)

ENSEMBLE COUSSINET POUR UN ARBRE DE DIRECTION DU TYPE TÉLESCOPIQUE ET SYSTÈME DE DIRECTION ÉQUIPÉ DUDIT  
ENSEMBLE COUSSINET

Publication

**EP 2563636 A1 20130306 (DE)**

Application

**EP 11703450 A 20110210**

Priority

- DE 102010028297 A 20100428
- EP 2011051964 W 20110210

Abstract (en)

[origin: WO2011134688A1] The invention relates to a bearing bush assembly (100) for a telescopic steering shaft comprising an outer tube (120) and an inner tube (110) wherein, for the axially movable and sealed connection of the inner tube (110) to the outer tube (120), the bearing bush assembly (100) has a bearing bush (10) bearing on the inner tube (110) and composed of an inelastic plastic, and a sealing element (30) injection-molded thereon and consisting of an elastic plastic. The bearing bush (10) is enclosed by an elastic bush, in particular a rubber bush (20), which in turn is enclosed by an end section of the outer tube (120), which means that a considerable damping action in the radial and/or axial direction is achieved, so that a considerable reduction in vibration and noise is established in the steering system. In order to further improve the radial damping, the rubber bush (20) is provided on the outer periphery thereof with web-like elements, in particular convex webs (24) extending outward. In addition, to improve the axial damping, at least one sealing lip (27) extending in the axial direction can be provided on the rubber bush (20).

IPC 8 full level

**B62D 1/185** (2006.01); **F16J 15/32** (2006.01)

CPC (source: EP US)

**B62D 1/185** (2013.01 - EP US); **F16C 33/74** (2013.01 - US); **F16J 15/3236** (2013.01 - EP US)

Citation (search report)

See references of WO 2011134688A1

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

DOCDB simple family (publication)

**WO 2011134688 A1 20111103**; BR 112012027801 B1 20201222; CN 102939234 A 20130220; CN 102939234 B 20150930; DE 102010028297 A1 20111201; DE 102010028297 B4 20230824; EP 2563636 A1 20130306; RU 2012150845 A 20140610; RU 2564435 C2 20150927; US 2013118291 A1 20130516; US 8827558 B2 20140909

DOCDB simple family (application)

**EP 2011051964 W 20110210**; BR 112012027801 A 20110210; CN 201180028413 A 20110210; DE 102010028297 A 20100428; EP 11703450 A 20110210; RU 2012150845 A 20110210; US 201213661336 A 20121026