

Title (en)
BALL-AND-SOCKET JOINT WITH SEALING RING

Title (de)
KUGELGELENK MIT VERSCHLUSSRING

Title (fr)
ARTICULATION SPHÉRIQUE AVEC ANNEAU DE FERMETURE

Publication
EP 2104788 A1 20090930 (DE)

Application
EP 07856116 A 20071217

Priority
• DE 2007002267 W 20071217
• DE 102006061974 A 20061221

Abstract (en)
[origin: WO2008074308A1] The invention relates to a ball-and-socket joint or bushing joint, for example, for an axle system or for attaching a spring-damper system in a motor vehicle. The ball-and-socket joint has a substantially annular or pot-shaped joint housing (10), in the substantially cylindrical interior of which a ball socket (11) is arranged. The ball socket (11) is fixed in the joint housing (10) using a sealing ring (12), wherein the ball (3) of a ball pin (4) or of a ball bush (9) is accommodated in the ball socket (11) in a manner allowing the ball (3) to slide. The ball-and-socket joint is characterized according to the invention in that the outer surface of the ball socket (11) in the end region adjoining the sealing ring (12) is substantially smooth and cylindrical in form, wherein the sealing ring (12) has toothing (14) on the front side thereof facing the ball socket (11). The ball-and-socket joint according to the invention offers advantages with regard to the reduction of the production costs and with regard to saving installation space and reducing weight. The tolerance chains in the area of the housing cover, which are also reduced, simplify the production of the parts and reduce the wastage rate.

IPC 8 full level
F16C 11/06 (2006.01)

CPC (source: EP KR US)
F16C 11/06 (2013.01 - KR); **F16C 11/0614** (2013.01 - EP US); **F16C 11/0628** (2013.01 - EP US); **F16C 11/0671** (2013.01 - EP US); **F16C 11/069** (2013.01 - EP US); **F16C 33/72** (2013.01 - KR); **Y10T 403/32631** (2015.01 - EP US)

Citation (search report)
See references of WO 2008074308A1

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

DOCDB simple family (publication)
WO 2008074308 A1 20080626; AU 2007335063 A1 20080626; BR PI0720503 A2 20140204; CN 101595316 A 20091202; DE 102006061974 A1 20080710; EP 2104788 A1 20090930; JP 2010513804 A 20100430; KR 20090101168 A 20090924; MX 2009005197 A 20090528; US 2010054851 A1 20100304

DOCDB simple family (application)
DE 2007002267 W 20071217; AU 2007335063 A 20071217; BR PI0720503 A 20071217; CN 200780047367 A 20071217; DE 102006061974 A 20061221; EP 07856116 A 20071217; JP 2009541756 A 20071217; KR 20097011379 A 20071217; MX 2009005197 A 20071217; US 51985107 A 20071217