

Title (en)
ROLLING BEARING-TYPE REVOLVING JOINT

Title (de)
WÄLZLAGER-DREHVERBINDUNG

Title (fr)
JOINT TOURNANT À PALIER À ROULEMENT

Publication
EP 2016300 A2 20090121 (DE)

Application
EP 07727787 A 20070404

Priority
• EP 2007053318 W 20070404
• DE 102006019982 A 20060429

Abstract (en)
[origin: DE102006019982A1] The connection (1) has two ball races (2, 6) concentric to each other, and a roller bearing (13) rolling at the corresponding ball race paths (10, 12) between the races, where one of the ball races (6) is flexibly formed. The single flexible ball race (6) is weakly formed in the longitudinal section to provide a radial elastic deformation such that the roller bearing is prestressed in an entire circumferential area in a loaded condition. The ball race has a base part (7) connected with a connection construction.

IPC 8 full level
F16C 19/16 (2006.01); **F16C 27/04** (2006.01); **F16C 33/58** (2006.01)

CPC (source: EP US)
F16C 19/166 (2013.01 - EP US); **F16C 27/04** (2013.01 - EP US); **F16C 33/58** (2013.01 - EP US); **F16C 2300/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2007125007A2

Citation (examination)
DE 3605812 A1 19870827 - KUGELFISCHER G SCHAEFER & CO [DE]

Designated contracting state (EPC)
DE FR IT NL

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 102006019982 A1 20071031; EP 2016300 A2 20090121; US 2009103845 A1 20090423; US 8092094 B2 20120110; WO 2007125007 A2 20071108; WO 2007125007 A3 20080110

DOCDB simple family (application)
DE 102006019982 A 20060429; EP 07727787 A 20070404; EP 2007053318 W 20070404; US 22681207 A 20070404