

Title (en)  
CONSTANT VELOCITY BALL JOINT WITH BALL PAIRS WHOSE TRACKS ARE LOCATED ON SYMMETRICAL PLANES

Title (de)  
KUGELGLEICHLAUFFESTGELENK MIT KUGELPAAREN, DEREN BAHNEN IN SYMMETRISCHEN EBENEN LIEGEN

Title (fr)  
JOINT FIXE HOMOCINETIQUE A BILLES COMPORTANT DES PAIRES DE BILLES DONT LES TRAJECTOIRES SONT SITUEES DANS DES PLANS SYMETRIQUES

Publication  
**EP 1299653 A1 20030409 (DE)**

Application  
**EP 01943447 A 20010525**

Priority  
• DE 10033491 A 20000710  
• EP 0105985 W 20010525

Abstract (en)  
[origin: WO0208624A1] The invention relates to a constant velocity ball joint having the following characteristics: the cage windows receive ball pairs (38 1 m 38 2); when the ball joint is extended, the angular distance (a1) of the balls in the central plane of the joint within individual ball pairs is smaller than the angular distance (a2) between balls pertaining to adjacent pairs; the center lines of the set of tracks of the ball pairs extend in planes (F2, G2) which are parallel to one another.

IPC 1-7  
**F16D 3/223**; **F16D 3/229**

IPC 8 full level  
**F16D 3/223** (2011.01); **F16D 3/2237** (2011.01); **F16D 3/229** (2006.01)

CPC (source: EP US)  
**F16D 3/2237** (2013.01 - EP US); **F16D 3/229** (2013.01 - EP US); **F16D 2003/22306** (2013.01 - EP US); **F16D 2003/22309** (2013.01 - EP US); **Y10S 464/906** (2013.01 - EP US)

Citation (search report)  
See references of WO 0208624A1

Designated contracting state (EPC)  
AT BE CH CY DE ES FR GB IT LI

DOCDB simple family (publication)  
**WO 0208624 A1 20020131**; AU 6602401 A 20020205; BR 0112303 A 20030708; BR 0112303 B1 20111004; DE 10033491 A1 20020131; DE 10033491 C2 20031120; EP 1299653 A1 20030409; JP 2004504570 A 20040212; JP 4969758 B2 20120704; US 2004254021 A1 20041216; US 7025683 B2 20060411

DOCDB simple family (application)  
**EP 0105985 W 20010525**; AU 6602401 A 20010525; BR 0112303 A 20010525; DE 10033491 A 20000710; EP 01943447 A 20010525; JP 2002514279 A 20010525; US 33229203 A 20030908