

Title (en)
LINEAR GUIDE

Title (de)
LINEARFÜHRUNG ZUM ÜBERTRAGEN VON DREHMOMENTEN

Title (fr)
DISPOSITIF DE GUIDAGE LINEAIRE POUR LA TRANSMISSION DE COUPLES

Publication
EP 1360423 A1 20031112 (DE)

Application
EP 02712841 A 20020124

Priority
• DE 10106982 A 20010215
• EP 0200675 W 20020124

Abstract (en)
[origin: WO02064989A1] The invention relates to a linear guide for transmitting torque between a tubular housing (2) that can be rotated about its longitudinal axis and a shaft (1) that is mounted in said housing so that it can be displaced axially by means of rolling bodies. Several axial anti-friction bearings (3) that surround the shaft (1), each having two bearing races or discs, with a set of rolling bodies therebetween, are arranged in the tubular housing (2) in the vicinity of a radial bearing plane. One bearing disc of the anti-friction bearings forms a bushing and is retained in the housing (2), the central axis of said bushing being offset in parallel by a certain distance (a) from the perpendicular of the longitudinal axis of the shaft and the other bearing disc of the anti-friction bearings (3) is dome-shaped, its convex dome surface being supported by a surface region of the shaft (1).

IPC 1-7
F16D 3/06; **F16C 29/04**; **B62D 1/18**

IPC 8 full level
B62D 1/18 (2006.01); **B62D 1/185** (2006.01); **F16C 29/02** (2006.01); **F16C 29/04** (2006.01); **F16D 3/06** (2006.01)

CPC (source: EP KR US)
B62D 1/185 (2013.01 - EP US); **F16C 29/04** (2013.01 - EP US); **F16D 3/06** (2013.01 - KR); **F16D 3/065** (2013.01 - EP US); **F16C 2326/24** (2013.01 - EP US)

Citation (search report)
See references of WO 02064989A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02064989 A1 20020822; DE 10106982 A1 20020829; EP 1360423 A1 20031112; JP 2004518099 A 20040617; KR 20030077008 A 20030929; US 2004109620 A1 20040610; US 2006005659 A1 20060112; US 6948401 B2 20050927; US 7147375 B2 20061212

DOCDB simple family (application)
EP 0200675 W 20020124; DE 10106982 A 20010215; EP 02712841 A 20020124; JP 2002564274 A 20020124; KR 20037009885 A 20030725; US 22598405 A 20050914; US 64320903 A 20030815