

Title (en)

Ball joint for supporting a piston of an hydrostatic axial or radial machine

Title (de)

Kugelkopf zur Abstützung eines Kolbens einer hydrostatischen Axial- oder radialkolbenmaschine an deren Hubkörper

Title (fr)

Rotule d'appui d'un piston d'une machine hydraulique radiale ou axiale

Publication

EP 0697520 B1 19971008 (DE)

Application

EP 95112878 A 19950816

Priority

DE 4429053 A 19940816

Abstract (en)

[origin: DE4429053C1] The ball head is designed with a hollow ball sector bounded by a circular aperture (29), and has a cylindrical surface (32), forming an equatorial line at 90 deg. from the piston axis. It is of smaller dia. than the aperture bounding the recess. The head has a spherical recess to take the hollow ball sector. A relief groove (33), open at both ends, is formed in the spherical recess or in the bearing surface (35). Its open ends come out in the hollow space (34) bounded by the cylindrical surface and the bearing surface. In the spherical recess, it bounds a bearing counter-surface (36) under hydrostatic relief against the bearing surface.

IPC 1-7

F04B 1/12; F01B 3/00; F04B 1/20

IPC 8 full level

F01B 3/00 (2006.01); **F04B 1/12** (2006.01); **F04B 1/20** (2006.01)

CPC (source: EP)

F01B 3/0085 (2013.01); **F04B 1/124** (2013.01); **F04B 1/2014** (2013.01)

Cited by

CN104074738A; IT201900001613A1; DE102014104951A1; EP2940299A2; US9850757B2

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