

Title (en)

HINGE JOINT FOR CONNECTING A MOVABLE SUPPORT STRUCTURE OF AN OFFSHORE PLATFORM TO A FOUNDATION

Publication

EP 0072898 B1 19850213 (DE)

Application

EP 82105561 A 19820624

Priority

DE 3132711 A 19810819

Abstract (en)

[origin: US4432668A] In a ball joint accessible for inspection and connecting the service tower of an offshore station to the foundation on the sea bottom, one side of a spherical joint part is firmly connected through a neck to the foot of the tower, and the other side of the spherical part is mounted for universal motion within a joint casing which is anchored to the foundation. The two parts of the joint are connected to each other by a tension member. The spherical joint part is seated on exchangeable supporting bearings 11 which are provided within the joint casing and are well accessible. The top of the joint casing is formed by a cover ring having a collar designed as a spherical zone. From above, the ball joint is sealed and protected by a spherical cap in which an air cushion is maintained. The gap between the cover ring and the spherical joint part is sealed by a stuffing box.

IPC 1-7

B63B 21/50; E02B 17/00; B63B 35/44

IPC 8 full level

E02B 17/00 (2006.01); **B63B 21/50** (2006.01); **B63B 35/44** (2006.01); **E21B 43/01** (2006.01)

CPC (source: EP US)

B63B 35/4406 (2013.01 - EP US); **Y10T 403/32631** (2015.01 - EP US)

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