

Title (en)

ROTATING MACHINE WITH PISTONS AND BARREL WITH A FIXED CENTERING TOGGLE TYPE JOINT

Publication

**EP 0302786 B1 19901114 (FR)**

Application

**EP 88402009 A 19880802**

Priority

FR 8711193 A 19870806

Abstract (en)

[origin: EP0302786A1] Rotating machine with pistons (7) and barrel (2) comprising a thrust plate (15) inclined in relation to its geometric axis of rotation which coincides with the geometric axis of the barrel, the central part of the inclined plate (15) comprising a spherical bearing (17) which turns freely about a fixed central trunnion (16) anchored to the central section of the barrel (2) whilst the latter is connected to a rigid peripheral housing (1), the central trunnion being firmly attached to a rigid half-shaft (33) linked to the rear section of the housing (1), characterised by at least one rod (38) rigidly connected to the trunnion (16) and to a piston (46) arranged in a bore (47) in the barrel (2) and subjected to the action of a pressurised liquid in such a way that at least some of the axial stresses applied to the trunnion (16) are transmitted to the barrel (2) without being applied to the housing (1). <IMAGE>

IPC 1-7

**F01B 3/02; F04B 1/14**

IPC 8 full level

**F03C 1/06** (2006.01); **F01B 3/02** (2006.01); **F03C 1/30** (2006.01); **F04B 1/14** (2020.01)

CPC (source: EP US)

**F01B 3/02** (2013.01 - EP US); **F04B 1/148** (2013.01 - EP US); **Y10T 74/18336** (2015.01 - EP US)

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DOCDB simple family (publication)

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