

Title (en)

FLOATING RING SEAL COMPRISING FRICTION MONITORING DEVICE

Title (de)

GLEITRINGDICHTUNG MIT REIBUNGSÜBERWACHUNGSEINRICHTUNG

Title (fr)

JOINT D'ÉTANCHÉITÉ À BAGUE GLISSANTE AVEC DISPOSITIF DE SURVEILLANCE DE FRICTION

Publication

EP 2440816 A1 20120418 (DE)

Application

EP 10723503 A 20100510

Priority

- EP 2010002863 W 20100510
- DE 202009008089 U 20090610

Abstract (en)

[origin: WO2010142367A1] The invention relates to a floating ring seal, comprising at least one pair of interacting floating rings (3, 4), of which one is provided for rotating together with a rotating component (2), and the other is mounted on a stationary component (20) and secured against rotating with the rotating component (2), and a monitoring device (6) for monitoring an operating state of the floating ring seal. The invention is characterized in that the monitoring device (6) comprises a beam (7) having a sensor element for detecting a bending of the beam, particularly a strain gauge, wherein the beam (7) is disposed in a recess (14) in the stationary floating ring (4) and the beam (7) contacts a wall (14a) of the recess (14) in the stationary floating ring with a predetermined pretension, and further comprises an adjusting device in order to adjust a position of the beam (7) relative to the recess (14).

IPC 8 full level

F16J 15/34 (2006.01)

CPC (source: EP US)

F16J 15/3492 (2013.01 - EP US)

Citation (search report)

See references of WO 2010142367A1

Citation (examination)

JP H0473662 U 19920629

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 202009008089 U1 20090820; EP 2440816 A1 20120418; JP 2012529602 A 20121122; US 2012112416 A1 20120510; WO 2010142367 A1 20101216

DOCDB simple family (application)

DE 202009008089 U 20090610; EP 10723503 A 20100510; EP 2010002863 W 20100510; JP 2012514368 A 20100510; US 201013377177 A 20100510