

Title (en)

FLUID DEVICE OUTPUT SHAFT WITH COATING

Title (de)

BESCHICHTETE AUSGANGSWELLE EINER FLÜSSIGKEITSVORRICHTUNG

Title (fr)

ARBRE DE SORTIE DE DISPOSITIF DE FLUIDE AYANT UN REVÊTEMENT

Publication

EP 3036439 A4 20170726 (EN)

Application

EP 14837882 A 20140822

Priority

- US 201361869348 P 20130823
- US 2014052263 W 20140822

Abstract (en)

[origin: WO2015027143A1] A fluid device includes a housing defining a central bore, a plurality of commutator holes that extend radially outward from the central bore and a plurality of axial passages in fluid communication with the commutator holes. A fluid displacement assembly is in fluid communication with the housing. The fluid displacement assembly includes volume chambers in fluid communication with the axial passages of the housing. An output shaft includes a valving portion disposed in the central bore of the housing. The valving portion includes a first and second lands and a valving land disposed between the first and second lands. The first land cooperates with the central bore to define a first journal bearing and the second land cooperates with the central bore to define a second journal bearing. A coating is applied to the first and second lands of the output shaft. The coating includes a polyamide 11 material.

IPC 8 full level

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F01C 1/104 (2013.01 - US); **F01C 21/008** (2013.01 - US); **F01C 21/02** (2013.01 - US); **F01C 21/08** (2013.01 - US); **F01C 21/106** (2013.01 - US); **F01C 21/18** (2013.01 - US); **F04C 2/104** (2013.01 - EP US); **F04C 15/0088** (2013.01 - EP US); **F04C 2230/91** (2013.01 - EP US); **F04C 2240/20** (2013.01 - EP US); **F05C 2225/04** (2013.01 - EP US); **F05C 2225/06** (2013.01 - EP US)

Citation (search report)

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- [Y] DE 102008055194 A1 20100708 - FEDERAL MOGUL WIESBADEN GMBH [DE]
- [Y] WO 2009095740 A1 20090806 - DANFOSS COMMERCIAL COMPRESSORS [FR], et al
- [Y] WO 2012163527 A1 20121206 - PERKINS ENGINES CO LTD [GB], et al
- See references of WO 2015027143A1

Designated contracting state (EPC)

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DOCDB simple family (application)

US 2014052263 W 20140822; CN 201480046623 A 20140822; EP 14837882 A 20140822; JP 2016536478 A 20140822; US 201414913051 A 20140822