

Title (en)
ROTARY PISTON MACHINE SEAL

Publication
EP 0494912 A4 19920805 (EN)

Application
EP 90914647 A 19901004

Priority
AU PJ670389 A 19891004

Abstract (en)
[origin: WO9105144A1] A rotary piston machine (160) has a casing (12'), a trochoidal piston (36') defined with an outer envelope and rotatable within the casing between opposed side walls (172, 174). A radial seal (48') for the piston (36') is mounted in a recess (176) in the casing module (20'). In a first embodiment the radial seal comprises a plurality of seal members (182, 184, 186) which together define a seal surface (180) for engagement with the piston periphery (37') and which are biased towards the piston (36'), an intermediate seal member (186) being resiliently biased and wedge shaped whereby the intermediate seal member (186) urges opposed end seal members (182, 184) into sealing contact with the respective ends of the recess defined by the opposed side walls (172, 174). In a second embodiment a peripheral axial seal (210) extends around a side wall of the piston (36') and a side sealing device (178) projects from the corresponding side wall (172, 174) of the casing (12') adjacent the radial seal (48') and is resiliently biased into sealing contact with the piston side wall to substantially seal any gap between the radial seal (48') and the peripheral axial seal (210).

IPC 1-7
F01C 19/10

IPC 8 full level
F01C 1/22 (2006.01); **F01C 19/06** (2006.01); **F01C 19/08** (2006.01); **F01C 19/10** (2006.01); **F04C 2/00** (2006.01); **F04C 27/00** (2006.01)

CPC (source: EP KR)
F01C 19/06 (2013.01 - KR); **F01C 19/10** (2013.01 - EP)

Citation (search report)

- [Y] GB 1109533 A 19680410 - NSU MOTORENWERKE AG
- [Y] US 3556695 A 19710119 - YAMAMOTO KENICHI
- [X] GB 995248 A 19650616 - RENAULT
- [A] FR 2149992 A5 19730330 - DORNIER SYSTEM GMBH
- [A] FR 1517635 A 19680315 - DORNIER SYSTEM GMBH
- [A] GB 997419 A 19650707 - RENAULT
- [A] DE 1244501 B 19670713 - BORSIG AG, et al
- [A] FR 2182516 A5 19731207 - FAGERSTA AB [SE]
- See references of WO 9105144A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 9105144 A1 19910418; AU 6502890 A 19910428; BR 9007710 A 19920721; CA 2067345 A1 19910405; CN 1051777 A 19910529; EP 0494912 A1 19920722; EP 0494912 A4 19920805; JP H05505007 A 19930729; KR 920703965 A 19921218

DOCDB simple family (application)
AU 9000478 W 19901004; AU 6502890 A 19901004; BR 9007710 A 19901004; CA 2067345 A 19901004; CN 90109137 A 19901004; EP 90914647 A 19901004; JP 51349590 A 19901004; KR 920700789 A 19920406