

Title (en)

SEALING STRIP ARRANGEMENT FOR A ROTARY PISTON ENGINE

Publication

EP 0469415 A3 19920527 (DE)

Application

EP 91112172 A 19910720

Priority

US 56071890 A 19900731

Abstract (en)

[origin: EP0469415A2] A sealing strip arrangement for a rotary piston engine comprises a rotor (16) which revolves in a casing (10), divides the latter into working chambers (14) and has a slot (18) at at least one vertex. The slot (18) accommodates a radially movable sealing strip (30) which nestles against a running surface (12) in the interior of the casing in a sealing manner. To improve sealing between the sealing strip and the running surface (12) of the casing, the slot (18) has a narrower inner region (20) and a wider outer region (24), each with radially extending side walls (21, 22; 25, 26) connected to one another by radially outward-directed step faces (27, 28). The sealing strip (30) comprises a narrower bottom part (32), accommodated by the inner region (20), and a wider top part (38) accommodated by the outer region (24), the transition between the bottom part (32) and the top part (38) being formed at least on one side by a radially inward-pointing projection (42, 44). The sealing strip (30) and the slot (18) are dimensioned in such a way that when the sealing strip (30) is moved towards one side of the slot (18), its top part (38) engages on the side wall (25, 26) of the outer region (24) of the slot (18) and prevents engagement between an outer region of the bottom part (32) of the sealing strip (30) and an outer region of the side wall (21, 22) of the inner region (20) of the slot (18). <IMAGE>

IPC 1-7

F01C 19/04

IPC 8 full level

F01C 19/02 (2006.01); **F01C 19/04** (2006.01); **F02B 53/00** (2006.01)

CPC (source: EP US)

F01C 19/04 (2013.01 - EP US); **F02B 53/00** (2013.01 - EP US); **F02B 2053/005** (2013.01 - EP US)

Citation (search report)

- [X] FR 1464911 A 19670106 - RENAULT
- [A] DE 1907039 B2 19750515
- [A] AT 256552 B 19670825 - USTAV PRO VYZKUM MOTOROVYCH VO

Cited by

US5681156A; WO9325801A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0469415 A2 19920205; **EP 0469415 A3 19920527**; CA 2045062 A1 19920201; JP H04232301 A 19920820; US 5123820 A 19920623

DOCDB simple family (application)

EP 91112172 A 19910720; CA 2045062 A 19910621; JP 16165791 A 19910702; US 56071890 A 19900731