

Title (en)

ROTARY PISTON MACHINE WITH SEALING ELEMENTS

Publication

**EP 0339034 B1 19920805 (DE)**

Application

**EP 88900348 A 19871231**

Priority

- DE 3644787 A 19861231
- DE 3644833 A 19861231
- DE 3709030 A 19870319

Abstract (en)

[origin: WO8805119A1] A rotary piston machine comprises, arranged inside the gas-tight inner chamber (22) of a housing (24), a piston assembly (20) composed of at least three separate pistons (26) that are of identical design in the form of rectilinear prisms having front faces limited by several arcs of circle (28, 30). Said pistons are each fixedly secured to and turn in the same direction (36) as a shaft (34) rotatively mounted in the housing, extending through the geometric central axis and the rotation of which is synchronised by means of a gear, have flush front faces and laterally limit the inner working space (38) with their curved circumferences, leaving a gap (S) between adjacent rotary pistons (26). Sealing elements (42) mounted in each gap (S) have two parallel sealing bars (44, 46) which have a cross-section that is wider than the gap (S) and are mutually linked by a connecting piece (48) narrower than the gap (S), and have a length that substantially corresponds to the length of the rotary pistons (26).

IPC 1-7

**F01C 1/28**

IPC 8 full level

**F01C 1/28** (2006.01); **F02G 1/044** (2006.01)

CPC (source: EP US)

**F01C 1/28** (2013.01 - EP US); **F02G 1/044** (2013.01 - EP US); **F02G 2270/02** (2013.01 - EP US)

Cited by

DE19603669A1; DE19603669C2; EP0784147A1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

**WO 8805119 A1 19880714**; DE 3780968 D1 19920910; EP 0339034 A1 19891102; EP 0339034 B1 19920805; JP H02501840 A 19900621; US 4968234 A 19901106

DOCDB simple family (application)

**DE 8700610 W 19871231**; DE 3780968 T 19871231; EP 88900348 A 19871231; JP 50051788 A 19871231; US 39155389 A 19890630