

Title (en)

Rotary piston machine used as an expansion engine or compressor.

Title (de)

Rotationskolbenmaschine als Expansionsmaschine oder Verdichter.

Title (fr)

Machine à piston rotatif utilisée comme machine à expansion ou compresseur.

Publication

EP 0130436 A1 19850109 (DE)

Application

EP 84106846 A 19840615

Priority

DE 3323397 A 19830629

Abstract (en)

[origin: ES8503066A1] The rotary piston machine contains a rotor (22) having a plurality of sector-shaped chambers (30). Each chamber (30) houses a flap piston being swivelingly mounted and reciprocated synchronously with the rotation of the rotor (22). By each of the double acting flap pistons (32) two working compartments are confined, and always two adjacent flap pistons (32) are driven in counterphase to one another. The adjoining working compartments of adjacent piston chambers (30) are commonly connected to inlet and outlet aperture slots (44) in the periphery of the rotor (22). The inlet and outlet ports (42) and ducts (A,B,C,D,E) are provided in the stator (21) around the periphery of the rotor (22).

Abstract (de)

Die Rotationskolbenmaschine weist einen Rotor (22) mit zahlreichen sektorförmigen Kammern (30) auf. In jeder Kammer (30) ist ein Klappenkolben (32) schwenkbar gelagert. Jeder Klappenkolben (32) ist synchron mit der Drehung des Rotors (22) angetrieben. Jeder Klappenkolben (32) begrenzt zwei Arbeitsräume. Jeweils zwei benachbarte Klappenkolben (32) sind gegenphasig zueinander angetrieben. Die Einlaß- oder Auslaßräume (A, B, C, D, E) sind im Stator (21) um den Rotor (22) herum angeordnet.

IPC 1-7

F01C 1/44

IPC 8 full level

F01C 1/077 (2006.01); **F01C 1/44** (2006.01); **F04C 2/44** (2006.01)

CPC (source: EP US)

F01C 1/44 (2013.01 - EP US)

Citation (search report)

- [YD] DE 2344460 A1 19740509 - GREEN EDWARD HOWARD, et al
- [Y] BE 652128 A
- [Y] DE 573821 C 19330406 - SULZER AG
- [A] US 2460821 A 19490208 - HAMREN JOSEPH O

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Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0130436 A1 19850109; DE 3323397 A1 19850131; DK 315384 A 19841230; DK 315384 D0 19840628; ES 533771 A0 19850216; ES 8503066 A1 19850216; JP H0140201 B2 19890825; JP S6035101 A 19850222; US 4560328 A 19851224

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