

Title (en)
Scroll-type displacement engine.

Title (de)
Rotationskolben-Verdrängungsarbeitsmaschine.

Title (fr)
Machine à volute.

Publication
EP 0298315 A1 19890111 (DE)

Application
EP 88110070 A 19880624

Priority
CH 263887 A 19870710

Abstract (en)
[origin: JPS6424192A] PURPOSE: To surely seal a work chamber for long hours by forming a spring member arranged between a sealing strip and a groove bottom from a tube made of silicon rubber, relating to a displacement machine for compressible media. CONSTITUTION: On both sides of a disk 4 a displacement body 5 extending spirally is disposed. The displacement body 5 is engaged with the exhaust chamber 6 of a casing 7. On the end face of the displacement body 5 an annular groove 13 is provided and into the groove 13, an elastic sealing strip 14 made of a material possible to slide, is inserted. A spring member 15 is disposed between the sealing strip 14 and the groove bottom. The spring member 15 consists of a tube made of a silicone rubber. Thus, the work chamber can be surely and satisfactorily sealed over long hours of operation.

Abstract (de)
Bei einer Rotationskolben-Verdrängungsarbeitsmaschine werden zur Abdichtung der planen Dichtungsebenen zwischen den Stirnflächen des eine kreisende Bewegung ausführenden Verdrängungskörpers (5) und den dazu parallel verlaufenden Seitenflächen (20) des stillstehenden Gehäuses (7) die Stirnflächen des Verdrängungskörpers (5) mit einer Nut (13) versehen, in der ein elastischer und aus gleitfähigem Material bestehender Dichtstreifen (14) einliegt. Der Dichtstreifen wird von einem Silikonschlauch (15) gegen die Seitenwand (20) angepresst.

IPC 1-7
F01C 19/08

IPC 8 full level
F01C 19/08 (2006.01); **F04C 18/02** (2006.01)

CPC (source: EP US)
F01C 19/08 (2013.01 - EP US)

Citation (search report)
• [A] EP 0124114 A2 19841107 - MITSUBISHI ELECTRIC CORP [JP]
• [A] GB 908116 A 19621017 - BIRD INSTR LTD
• [A] US 4082484 A 19780404 - MCCULLOUGH JOHN E
• [AD] DE 3140512 A1 19830421 - MEYER FA JOS L [DE]
• [A] US 4192152 A 19800311 - ARMSTRONG ALLEN E [US], et al

Cited by
US5258046A; EP0597804A1; EP0807759A3; EP0446635A3; EP0520487A1; CN101960142A; US8721304B2

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

DOCDB simple family (publication)
EP 0298315 A1 19890111; EP 0298315 B1 19910123; AT E60405 T1 19910215; BR 8803459 A 19890131; CH 673135 A5 19900215; DE 3861635 D1 19910228; JP S6424192 A 19890126; US 4883413 A 19891128

DOCDB simple family (application)
EP 88110070 A 19880624; AT 88110070 T 19880624; BR 8803459 A 19880708; CH 263887 A 19870710; DE 3861635 T 19880624; JP 16786888 A 19880707; US 21434088 A 19880701