Title (en)

PERFECTLY DRY AND CLOSED VACUUM PUMP WITH RECTILINEAR MOVEMENT FOR ALTERNATING COMPRESSION

Publication

EP 0173601 B1 19880608 (FR)

Application

EP 85401426 A 19850712

Priority

FR 8411652 A 19840723

Abstract (en)

[origin: US4718836A] A completely dry fluid-tight reciprocating vacuum pump comprises one or more pumping chambers defined between two rigid parts which face one another in the axial direction. One is reciprocated in a straight line relative to the other. They are connected to one another by at least one axially flexible member of appropriate radial stiffness. Each of these members comprises an outside part fixed to a first of these rigid parts. The side of the first rigid part facing the flexible member is shaped to have a profile in diametral cross-section which is substantially the same as the profile in diametral cross-section that this member tends to assume, by virtue of its stiffness, in the configuration with the aforementioned rigid parts moved towards one another. The pump can be used for pumping corrosive and radioactive gases, such as tritium, for example.

IPC 1-7

F04B 45/02; F04B 37/14; F04B 41/06

IPC 8 full level

F04B 37/14 (2006.01); **F04B 41/06** (2006.01); **F04B 45/02** (2006.01); **F04B 45/04** (2006.01)

CPC (source: EP US)

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Cited by

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DOCDB simple family (publication)

US 4718836 A 19880112; AT E35025 T1 19880615; CA 1317576 C 19930511; DE 3563242 D1 19880714; EP 0173601 A1 19860305; EP 0173601 B1 19880608; FR 2567970 A1 19860124; FR 2567970 B1 19890428; JP H0315038 B2 19910228; JP S6193283 A 19860512; ZA 855368 B 19860326

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