

Title (en)

LOW NOISE HIGH PERFORMANCE VACUUM PUMP

Title (de)

GERÄUSCHARME VAKUUMPUMPE MIT HOHEM WIRKUNGSGRAD

Title (fr)

POMPE A VIDE A FAIBLE BRUIT ET RENDEMENT ELEVE

Publication

**EP 1055070 B1 20021204 (FR)**

Application

**EP 99902628 A 19990208**

Priority

- FR 9900284 W 19990208
- FR 9801664 A 19980212

Abstract (en)

[origin: FR2774727A1] The invention concerns a vacuum pump comprising two cylinders (1, 2) wherein the respective pistons (3, 4) define respective volumes (V1, V2) which increase during the suction phase and decrease during the discharge phase. The invention is characterised in that the cylinders (1, 2) are symmetrically aligned with each other relative to the main axis X, and the pistons (3, 4) are driven, for example by a cam (5), such that the suction phase, which corresponds to an angular rotation A1 of the cam, lasts longer than the discharge phase, which corresponds to an angular rotation A2 of the cam.

IPC 1-7

**F04B 37/14**; F04B 27/04; F04B 27/02

IPC 8 full level

**F04B 27/02** (2006.01); **F04B 27/04** (2006.01); **F04B 35/01** (2006.01); **F04B 37/14** (2006.01)

CPC (source: EP)

**F04B 27/02** (2013.01); **F04B 27/0414** (2013.01); **F04B 37/14** (2013.01)

Cited by

CN102345582A

Designated contracting state (EPC)

BE DE ES FR GB

DOCDB simple family (publication)

**FR 2774727 A1 19990813**; **FR 2774727 B1 20000421**; DE 69904299 D1 20030116; DE 69904299 T2 20030821; EP 1055070 A1 20001129; EP 1055070 B1 20021204; ES 2189384 T3 20030701; JP 2002503786 A 20020205; JP 4172005 B2 20081029; WO 9941501 A1 19990819

DOCDB simple family (application)

**FR 9801664 A 19980212**; DE 69904299 T 19990208; EP 99902628 A 19990208; ES 99902628 T 19990208; FR 9900284 W 19990208; JP 2000531666 A 19990208