

Title (en)
Vacuum pump

Title (de)
Vakuumpumpe

Title (fr)
Pompe à vide

Publication
EP 0855517 B1 20031008 (DE)

Application
EP 98100372 A 19980112

Priority
DE 19702456 A 19970124

Abstract (en)
[origin: EP0855517A2] The pump has a high vacuum section (1), a pre-vacuum section (2), and a drive and bearing section (3). The three sections are formed and positioned relative to each other, so that they can be subjected to different thermal loads. At least two of the sections are thermally isolated from each other. Isolation is achieved by free turnings (15,16,17) between components, so that contact between them is reduced to a minimum, or by parts (18,19,20) of low heat-conductivity, which form the required contact faces. The high vacuum section has a cooler (21) or heater (23), and the drive and bearing section has a cooler (22) or a heater (24).

IPC 1-7
F04D 29/58; F04D 19/04; F04D 17/16

IPC 8 full level
F04D 17/16 (2006.01); **F04D 19/04** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)
F04D 19/04 (2013.01); **F04D 25/06** (2013.01); **F04D 29/5806** (2013.01); **F04D 29/584** (2013.01); **F04D 29/5853** (2013.01); **F04D 29/056** (2013.01); **F05D 2260/607** (2013.01)

Cited by
US2016160877A1; EP1178217A3; EP1344940A1; EP1236906A1; EP1288502A3; EP2846044A1; US6629824B2; US6824357B2; US10221864B2; US9745989B2; WO2015043962A1; CN105358835A; EP3029328A4; US10954962B2; EP2589814B1

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