

Title (en)
Low vibration vacuum pump

Title (de)
Vibrationsarme Vakuumpumpe

Title (fr)
Pompe à vide à faible vibration

Publication
EP 1650441 B1 20140730 (DE)

Application
EP 05021097 A 20050928

Priority
DE 102004050743 A 20041019

Abstract (en)
[origin: EP1650441A2] The vacuum pump (1) comprises a housing (2) with at least one gas input (3) and one gas output (4). There is a rotor shaft (5) with a motor rotor (6) and a motor stator (7). The motor stator is an electrically mounted or driven element. There are supports (8) that rotatably support the rotor shaft, whilst there are also rotating ends (9) and stands (10). At least one of the electrically mounted or driven elements is mounted in the housing via an elastic building element (11). At least one of the supports may have an intermediary member (12) that is made from a material that has a high density. One of the supports may be a roller bearing and may also be a regulated magnetic bearing.

IPC 8 full level
F04D 29/66 (2006.01); **F04D 19/04** (2006.01)

CPC (source: EP)
F04D 19/04 (2013.01); **F04D 29/668** (2013.01)

Cited by
CN102425563A; GB2511984A; GB2511984B; GB2511985A; FR3016294A1; GB2511985B; WO2013082998A1; US9479035B2; WO2013083000A1; WO2015107027A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1650441 A2 20060426; EP 1650441 A3 20120425; EP 1650441 B1 20140730; DE 102004050743 A1 20060420

DOCDB simple family (application)
EP 05021097 A 20050928; DE 102004050743 A 20041019