

Title (en)
Vacuum pump

Title (de)
Vakuumpumpe

Title (fr)
Pompe à vide

Publication
EP 1739308 B1 20080618 (EN)

Application
EP 05425468 A 20050630

Priority
EP 05425468 A 20050630

Abstract (en)
[origin: EP1739308A1] The present invention concerns a rotary vacuum pump (101) including a plurality of pumping stages obtained through the cooperation between alternate rotor discs (123) and stator discs or rings (115), at least one duct (135, 127) for introducing a gas or a gas mixture into the pump, said duct being interrupted by an electrically controllable valve (133), and an electronic control device (129) programmed to detect at least one operating parameter of the pump and to modify the configuration of said valve (133) so as to cause an increase or a decrease in the amount of gas passing through said duct (135) based on the detected value of said parameter. The invention further concerns a method of operating said pump, a pumping system including one or more such vacuum pumps and a method of operating said pumping system.

IPC 8 full level
F04D 19/04 (2006.01); **F04D 27/02** (2006.01)

CPC (source: EP)
F04D 19/042 (2013.01); **F04D 27/0292** (2013.01)

Cited by
DE102014109005A1; JP2012132448A; EP3916231A1; DE102007051045B4; EP2466145A3; EP4033516A1; JP2022114118A; US2023095537A1; DE102007051045A1; EP2053249A2; US11929238B2; EP2466145A2; DE102010055058A1; EP2960520A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1739308 A1 20070103; EP 1739308 B1 20080618; DE 602005007593 D1 20080731

DOCDB simple family (application)
EP 05425468 A 20050630; DE 602005007593 T 20050630