

Title (en)
Method of controlling the stopping operation of vacuum pump

Title (de)
Verfahren zur Steuerung des Stoppbetriebs einer Vakuumpumpe

Title (fr)
Procédé de contrôle d'arrêt d'opération d'une pompe sous vide

Publication
EP 1900943 B1 20110119 (EN)

Application
EP 07116083 A 20070911

Priority
JP 2006247196 A 20060912

Abstract (en)
[origin: EP1900943A1] A method for controlling the operation of a vacuum pump when stopping the gas transferring operation thereof, the vacuum pump having a housing in which a pump chamber is formed and a gas transferring body which is rotatably disposed in the pump chamber for transferring gas, the method comprises the steps of reducing rotational speed of the gas transferring body to a first preset speed below a second preset speed that is lower than a normal speed of the gas transferring body during normal gas transferring operation of the vacuum pump, maintaining the speed of the gas transferring body below the second preset speed, and stopping the rotation of the gas transferring body when the temperature of the housing reaches a predetermined temperature which is lower than that of the housing during the normal gas transferring operation of the vacuum pump.

IPC 8 full level
F04C 25/02 (2006.01); **F04C 28/06** (2006.01); **F04C 28/08** (2006.01); **F04C 29/04** (2006.01); **F04C 18/12** (2006.01); **F04C 18/16** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP KR US)
F04C 14/00 (2013.01 - KR); **F04C 25/02** (2013.01 - EP KR US); **F04C 28/00** (2013.01 - KR); **F04C 28/06** (2013.01 - EP US); **F04C 28/08** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US); **F04C 18/126** (2013.01 - EP US); **F04C 18/16** (2013.01 - EP US); **F04C 23/005** (2013.01 - EP US); **F04C 2220/12** (2013.01 - EP US); **F04C 2270/17** (2013.01 - EP US); **F04C 2280/02** (2013.01 - EP US); **F05C 2201/0442** (2013.01 - EP US)

Cited by
WO2022129009A1; EP4067658A3; CN107084135A; CN106762650A; FR3076582A1; CN111527309A; US11396875B2; EP3578825A3; GB2602625A; GB2602625B; US11396876B2; WO2019137700A1; WO2021259463A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1900943 A1 20080319; **EP 1900943 B1 20110119**; AT E496221 T1 20110215; DE 602007012030 D1 20110303; JP 2008069666 A 20080327; JP 4702236 B2 20110615; KR 100872503 B1 20081208; KR 20080024058 A 20080317; TW 200823369 A 20080601; TW I341368 B 20110501; US 2008063536 A1 20080313

DOCDB simple family (application)
EP 07116083 A 20070911; AT 07116083 T 20070911; DE 602007012030 T 20070911; JP 2006247196 A 20060912; KR 20070070371 A 20070713; TW 96133644 A 20070910; US 90044607 A 20070910