

Title (en)
VACUUM PUMP

Title (de)
VAKUUMPUMPE

Title (fr)
POMPE À VIDE

Publication
EP 4239197 A1 20230906 (EN)

Application
EP 23154594 A 20230202

Priority
JP 2022018854 A 20220209

Abstract (en)
A vacuum pump that can discharge particles contained in gas from a rotor chamber well is disclosed. The vacuum pump 1 includes: a pump casing 6 having a rotor chamber 5 therein; a pair of Roots rotors 8 disposed in the rotor chamber 5; and a pair of rotation shafts 9 supporting the pair of Roots rotors 8. The pump casing 6 has a gas inlet 12 and a gas outlet 13 communicating with the rotor chamber 5. A connection 25 between an inner wall 22 forming the rotor chamber 5 and an inner wall 23 forming the gas outlet 13 is located on or located more outwardly than a rotor center line CL extending through a center of rotation RC and a bottom dead center LP of each Roots rotor 8.

IPC 8 full level
F04C 18/12 (2006.01)

CPC (source: CN EP KR)
F04C 18/126 (2013.01 - EP KR); **F04C 25/02** (2013.01 - CN KR); **F04C 29/00** (2013.01 - CN); **F04C 2220/10** (2013.01 - KR); **F04C 2240/10** (2013.01 - KR); **F04C 2240/20** (2013.01 - CN KR); **F04C 2240/30** (2013.01 - KR); **F04C 2240/60** (2013.01 - KR); **F05B 2240/10** (2013.01 - KR); **F05B 2240/20** (2013.01 - KR); **F05B 2240/60** (2013.01 - KR)

Citation (applicant)
JP 2010101321 A 20100506 - EDWARDS LTD

Citation (search report)
• [XAY] US 2021140430 A1 20210513 - DREIFERT THOMAS [DE], et al
• [YA] DE 3603818 A1 19870813 - MESSER GRIESHEIM GMBH [DE]
• [A] DE 102013110091 B3 20150212 - PFEIFFER VACUUM GMBH [DE]
• [A] JP S5891390 A 19830531 - KARIYA TOKUJI

Citation (third parties)
Third party : Anonymous
EP 2180188 A1 20100428 - EDWARDS LTD [GB]

Designated contracting state (EPC)
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