

Title (en)
VACUUM PUMP APPARATUS

Title (de)
VAKUUMPUMPENVORRICHTUNG

Title (fr)
APPAREIL DE POMPE À VIDE

Publication
EP 3674551 A1 20200701 (EN)

Application
EP 19217767 A 20191218

Priority
JP 2018247321 A 20181228

Abstract (en)
A vacuum pump apparatus capable of reducing an installation space of a vacuum pump and reliably restarting comprising: a pair of pump rotors (6a, 6b, 6c) arranged opposite to each other, the pair of pump rotors being a roots rotor or a claw rotor; a pair of shafts (8) fixed to the pair of pump rotors (6a, 6b, 6c), the pair of shafts (8) extending in a vertical direction; a motor (10) configured to rotate the pair of pump rotors (6a, 6b, 6c); a pair of timing gears (25) fixed to the pair of shafts (8), the pair of timing gears (25) meshing with each other; a fixed-side bearing (20, 21) arranged above the pair of pump rotors; and a free-side bearing (13) configured to support the shaft (8) together with the fixed-side bearing (20, 21).

IPC 8 full level
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Citation (applicant)
JP H0653793 U 19940722

Citation (search report)
• [XY] GB 809443 A 19590225 - HERAEUS GMBH W C
• [Y] EP 1556614 B1 20061115 - BOC GROUP PLC [GB]
• [A] US 2009097984 A1 20090416 - KIDO KOICHI [JP], et al
• [A] US 2008063536 A1 20080313 - KOSHIZAKA RYOSUKE [JP], et al

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DOCDB simple family (application)
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