

Title (en)

OIL-FREE VACUUM PUMP HAVING A PRISMATIC PISTON AND CORRESPONDING COMPRESSOR

Title (de)

ÖLFREIE VAKUUMPUMPE MIT PRISMATISCHEM KOLBEN UND DEMENTSPRECHENDER KOMPRESSOR

Title (fr)

POMPE À VIDE SANS HUILE DOTÉE D'UN PISTON PRISMATIQUE ET COMPRESSEUR CORRESPONDANT

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Application

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Abstract (en)

[origin: WO2018145795A1] The invention relates to an oil-free vacuum pump for evacuating gaseous media, comprising: an electric motor (4) which drives a shaft (3); a pump housing (1) having a pump chamber (10), as well as an inlet (15) and an outlet (16); a prismatic displacement piston (2) which is accommodated in the pump chamber (10) such that it is bidirectionally active and can be moved on a reciprocal working section; and at least one pressure valve (20) which releases an outflow of a gaseous medium out of the pump chamber (10) through the outlet (16) and blocks an inflow into the pump chamber (10). The displacement piston (2) has a slot (23) into which a drive force of the shaft (3) is introduced via a crankpin (33) by means of a rolling bearing (31).

IPC 8 full level

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Citation (search report)

See references of WO 2018145795A1

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