

Title (en)
LUBRICATED AUTOMOTIVE VACUUM PUMP

Title (de)
GESCHMIERTE VAKUUMPUMPE FÜR FAHRZEUGE

Title (fr)
POMPE À VIDE LUBRIFIÉE POUR AUTOMOBILE

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Application
EP 15759676 A 20150819

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Abstract (en)
[origin: WO2017028914A1] The invention refers to a lubricated automotive vacuum pump (10) for providing low-pressure for an automotive actuator, comprising a pump housing (12) housing a pump chamber (16) which is radially defined by a circumferential chamber surface (22), a pump rotor (30) rotating around an axial rotation axis (13), the pump rotor (30) being provided with a rotor body (32) with a vane slit (34) wherein a shiftable vane (36) is shiftable supported which separates the pump chamber (16) into rotating compartments (161, 162), a friction bearing (50) for rotatably supporting the pump rotor (30) at the static pump housing (12), the friction bearing (50) being defined by a cylindrical stator friction bearing surface (52) of the pump housing (12) and a corresponding cylindrical rotor bearing surface (51) of the rotor (30), a pump gas inlet (15) and a separate pump gas outlet (38), an oil inlet channel (60) for providing lubrication oil to the pump rotor (30), and a separate oil outlet opening (411, 412) at the rotor body (32) and an automatic mechanical switchover valve (40) for temporarily connecting the oil outlet opening (411, 412) with an oil drain (70).

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