

Title (en)
MECHANICAL MOTOR VEHICLE VACUUM PUMP

Title (de)
MECHANISCHE KFZ-VAKUUMPUMPE

Title (fr)
POMPE À VIDE MÉCANIQUE POUR VÉHICULE AUTOMOBILE

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Application
EP 14197706 A 20141212

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Abstract (en)
[origin: WO2016091922A1] The invention relates to a mechanical vacuum pump (10) for a motor vehicle, comprising a pump rotor (16) rotatably mounted in a stationary pump housing (14) and a separate pump-side plug-coupling element (20) which is connected for conjoint rotation with the pump rotor (16), wherein a lubricant supply is provided for lubricating the plug-coupling element (20). The lubricant supply comprises a stationary lubricant supply channel (22) in the pump housing (14), through which the lubricant is pumped from a lubricant inlet (24) of the pump housing (14), in the direction of the coupling arrangement (20), to a transfer opening (26). The lubricant supply further comprises a lubricant transport channel (30; 30') in the pump rotor (16; 16'), wherein the lubricant is pumped through the transport channel (30; 30') from an acceptance opening (28) to a lubricant outlet opening (32). The transfer opening (26) and the acceptance opening (28) are arranged such that they are temporarily in fluid connection with one another at least once during a rotation of the pump rotor (16). The outlet opening (32) is arranged eccentrically in an end wall (34) of the pump rotor (16). There is no fluid channel provided radially between the outlet opening (32) and the centre of the pump rotor, either in the pump rotor end wall (34) or in the opposite end wall (36) of the plug-connector element (20).

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