

Title (en)

AUTOMOTIVE AUXILIARY ASSEMBLY VACUUM PUMP HAVING A SINGLE-PIECE FLANGE ELEMENT

Title (de)

KFZ-HILFSAGGREGAT-VAKUUMPUMPE MIT EINSTÜCKIGEM FLANSCELEMENT

Title (fr)

POMPE À VIDE DE GROUPE AUXILIAIRE DE VÉHICULE AUTOMOBILE DOTÉE D'UN ÉLÉMENT BRIDE D'UN SEUL TENANT

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2018007052A1] The invention relates to an automotive auxiliary assembly vacuum pump (10) which is configured as a dry-running vane cell pump which is driven by electric motor, having a housing composite structure (11) which has an electric motor section (12), a pump section (14) and a pump inlet opening and pump outlet opening, wherein the electric motor section (12) has a motor rotor (17) which is surrounded in a radial and axially distal manner by a motor housing part (16) which is closed proximally by a bearing plate (22) which supports a bearing (25), wherein the pump section has a pump housing (29) which defines a pump chamber (31) and has a closure element (50), wherein the pump housing (29) is formed at least by an axially proximal thrust washer (24), and axially distal thrust washer (40) and a radial thrust ring (26), wherein the pump housing has at least one pump chamber inlet opening and at least one pump chamber outlet opening, wherein the motor rotor (17) is oriented coaxially with a pump rotor (30) which is arranged in the pump chamber (31) and the rotor body (32) of which has at least three rotor blades (34) which are mounted displaceably on the rotor body (32), characterized in that exclusively the bearing plate and the axially proximal thrust washer are configured as a single-piece flange element, wherein the pump inlet opening and/or the pump outlet opening are/is provided in the bearing plate, and/or the corresponding pump chamber inlet opening and/or pump chamber outlet opening are/is provided in the axially proximal thrust washer.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018007052A1

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