

Title (en)
MOTOR VEHICLE VACUUM PUMP

Title (de)
KRAFTFAHRZEUG-VAKUUMPUMPE

Title (fr)
POMPE À VIDE DE VÉHICULE AUTOMOBILE

Publication
EP 4182561 A1 20230524 (EN)

Application
EP 20742218 A 20200714

Priority
EP 2020069913 W 20200714

Abstract (en)
[origin: WO2022012745A1] The present invention is directed to a motor vehicle vacuum pump (10) comprising - a pumping unit (26) with a rotatable pump rotor (28), the pump rotor (28) being configured to pump fluid from a suction side (30) to a discharge side (32) of the pumping unit (26) during pump operation, - a pump housing (14) with a housing discharge opening (24), the housing discharge opening (24) being fluidically connected with the discharge side (32) of the pumping unit (26), and - a separate deflection element (44) which is attached to the pump housing (14) and which defines a deflection channel (48), the deflection channel (48) being fluidically connected with the housing discharge opening (24) and being configured to deflect the fluid flow which is discharged out of the housing discharge opening (24). The separate deflection element (44) allows the spatial orientation of an atmosphere-sided discharge opening to be easily adapted to different installation orientations so that liquid accumulation in the discharge flow path is reliably prevented. This provides a durable and versatile motor vehicle vacuum pump (10).

IPC 8 full level
F04C 29/12 (2006.01)

CPC (source: EP)
F04C 29/12 (2013.01); **F04C 25/02** (2013.01)

Citation (search report)
See references of WO 2022012745A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022012745 A1 20220120; CN 115803528 A 20230314; EP 4182561 A1 20230524

DOCDB simple family (application)
EP 2020069913 W 20200714; CN 202080102712 A 20200714; EP 20742218 A 20200714