

Title (en)  
ELECTRIC MOTOR VEHICLE VACUUM PUMP ARRANGEMENT

Title (de)  
ELEKTRISCHE KFZ-VAKUUMPUMPEN-ANORDNUNG

Title (fr)  
AGENCEMENT DE POMPE À VIDE DE VÉHICULE AUTOMOBILE ÉLECTRIQUE

Publication  
**EP 2964959 A1 20160113 (DE)**

Application  
**EP 13709383 A 20130305**

Priority  
EP 2013054438 W 20130305

Abstract (en)  
[origin: WO2014135202A1] The invention relates to an electric motor vehicle vacuum pump arrangement (10) with a composite (18) of a rotary pump assembly (40) and a coaxial drive engine (20), which has a rotor chamber (36) with an engine rotor (22) and a stator chamber (37) with an engine stator (24). The arrangement (10) further has a separate sound-proof housing (12) which houses the composite (18) in a radially and axially spaced manner and which has a suction connection (11) and a pressure connection (76). Furthermore, a gas-tight annular damping arrangement (50) is provided radially between the sound-proof housing (12) and the composite (18), and the drive engine (20) has a ventilation inlet (33) and a ventilation outlet (47) such that an axial forced ventilation is carried out past the damping arrangement (50) and through the rotor chamber (36) and/or the stator chamber (37).

IPC 8 full level  
**F04C 23/02** (2006.01); **F04C 11/00** (2006.01); **F04C 18/344** (2006.01); **F04C 25/02** (2006.01); **F04C 29/00** (2006.01); **F04C 29/06** (2006.01)

CPC (source: EP US)  
**F04C 11/008** (2013.01 - EP US); **F04C 18/344** (2013.01 - US); **F04C 29/0035** (2013.01 - EP US); **F04C 29/045** (2013.01 - US); **F04C 29/06** (2013.01 - EP US); **F04C 29/066** (2013.01 - US); **F04C 2240/30** (2013.01 - EP US); **F04C 2240/40** (2013.01 - EP US); **F04C 2270/12** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014135202A1

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

DOCDB simple family (publication)  
**WO 2014135202 A1 20140912**; CN 105121856 A 20151202; CN 105121856 B 20170922; EP 2964959 A1 20160113; EP 2964959 B1 20161005; US 2016017885 A1 20160121; US 9989058 B2 20180605

DOCDB simple family (application)  
**EP 2013054438 W 20130305**; CN 201380074243 A 20130305; EP 13709383 A 20130305; US 201314772784 A 20130305