

Title (en)
COMPRESSOR HOUSING OF A RADIAL COMPRESSOR, AND METHOD FOR FEEDING CHARGE AIR INTO AN INTERNAL COMBUSTION ENGINE

Title (de)
VERDICHTERGEHÄUSE EINES RADIALVERDICHTERS UND VERFAHREN ZUM ZUFÜHREN VON LADELUFT IN EINE BRENNKRAFTMASCHINE

Title (fr)
CARTER DE COMPRESSEUR D'UN COMPRESSEUR RADIAL ET PROCÉDÉ POUR AMENER DE L'AIR DE SURALIMENTATION DANS UN MOTEUR À COMBUSTION INTERNE

Publication
EP 3927978 A1 20211229 (DE)

Application
EP 20704920 A 20200220

Priority
• EP 19158292 A 20190220
• EP 2020054506 W 20200220

Abstract (en)
[origin: WO2020169745A1] The invention relates to a compressor housing (10) of a radial compressor. The compressor housing (10) comprises a radially inner housing region (10A) which forms an axial inflow channel (11) in an intake region of the radial compressor (20). The compressor housing (10) also comprises a diffuser region (10B) which adjoins the radially inner housing region (10A). The diffuser region (10B) is designed to deflect a radial flow downstream of a compressor impeller (21) into an axial direction counter to an inflow direction (12) of the inflow channel (11). The compressor housing (10) also comprises a radially outer housing region (10C) which adjoins the diffuser region (10B), extends axially counter to the inflow direction (12) and provides one or more charge air manifolds (13, 14).

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/58** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP KR US)
F02M 31/20 (2013.01 - US); **F04D 29/284** (2013.01 - KR); **F04D 29/4206** (2013.01 - EP KR US); **F04D 29/4253** (2013.01 - EP US); **F04D 29/441** (2013.01 - US); **F04D 29/5826** (2013.01 - EP KR); **F04D 29/664** (2013.01 - EP KR US); **F05D 2210/12** (2013.01 - KR); **F05D 2220/40** (2013.01 - EP KR); **F05D 2250/50** (2013.01 - KR); **F05D 2250/51** (2013.01 - EP); **F05D 2250/52** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP)

Citation (search report)
See references of WO 2020169745A1

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)
EP 3699436 A1 20200826; CN 113272560 A 20210817; EP 3927978 A1 20211229; JP 2022521262 A 20220406; KR 20210127144 A 20211021; US 2022136466 A1 20220505; WO 2020169745 A1 20200827

DOCDB simple family (application)
EP 19158292 A 20190220; CN 202080007918 A 20200220; EP 2020054506 W 20200220; EP 20704920 A 20200220; JP 2021549150 A 20200220; KR 20217023815 A 20200220; US 202017432836 A 20200220