

Title (en)
FAN ASSEMBLY FOR A MOTOR VEHICLE

Title (de)
LÜFTERANORDNUNG FÜR EIN KRAFTFAHRZEUG

Title (fr)
ENSEMBLE VENTILATEUR POUR UN VÉHICULE À MOTEUR

Publication
EP 3844399 A1 20210707 (DE)

Application
EP 19800979 A 20191106

Priority
• DE 102018219006 A 20181107
• EP 2019080310 W 20191106

Abstract (en)
[origin: WO2020094676A1] The invention relates to a fan assembly (6) for cooling an internal combustion engine (4) of a motor vehicle, in particular a hybrid vehicle, comprising: a first cooling fan, which is arranged, with respect to an air flow direction (5), downstream of a heat exchanger (2) through which a coolant flows; and a second cooling fan, wherein: the first cooling fan is a radial fan (6a), which draws cooling air (L) in axially and expels it radially; the second cooling fan is an axial fan (6b), which draws cooling air (L) in axially and expels it axially; and the axial fan (6b) is arranged downstream of the heat exchanger (2) and laterally adjacent to the radial fan (6a) in a plane parallel to the rear side (7) of the heat exchanger, or is arranged upstream of the heat exchanger (2), with respect to the air flow direction (5), in a plane parallel to the front side (8) of the heat exchanger.

IPC 8 full level
F04D 17/16 (2006.01); **F04D 19/00** (2006.01); **F04D 25/16** (2006.01)

CPC (source: EP US)
F01P 5/04 (2013.01 - US); **F01P 5/06** (2013.01 - EP US); **F01P 7/08** (2013.01 - US); **F04D 17/16** (2013.01 - EP US);
F04D 19/002 (2013.01 - EP US); **F04D 25/166** (2013.01 - EP US); **F01P 2005/025** (2013.01 - EP US); **F01P 2005/046** (2013.01 - EP US)

Citation (search report)
See references of WO 2020094676A1

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)
DE 102018219006 A1 20200507; CN 112930443 A 20210608; CN 112930443 B 20230523; EP 3844399 A1 20210707; MA 53499 A 20210707;
US 11339707 B2 20220524; US 2022003144 A1 20220106; WO 2020094676 A1 20200514

DOCDB simple family (application)
DE 102018219006 A 20181107; CN 201980071190 A 20191106; EP 19800979 A 20191106; EP 2019080310 W 20191106;
MA 53499 A 20191106; US 201917292018 A 20191106