

Title (en)

COOLING MODULE FOR AN ELECTRIC OR HYBRID MOTOR VEHICLE, HAVING A TANGENTIAL-FLOW TURBOMACHINE

Title (de)

KÜHLMODUL FÜR EIN ELEKTRO- ODER HYBRIDKRAFTFAHRZEUG MIT EINER TANGENTIALFLUSSTURBOMASCHINE

Title (fr)

MODULE DE REFROIDISSEMENT POUR VÉHICULE AUTOMOBILE ÉLECTRIQUE OU HYBRIDE À TURBOMACHINE TANGENTIELLE

Publication

EP 4274756 A1 20231115 (FR)

Application

EP 21840534 A 20211216

Priority

- FR 2100072 A 20210105
- EP 2021086236 W 20211216

Abstract (en)

[origin: WO2022148631A1] Cooling module (22) for a motor vehicle (10), the module being intended to allow an airflow (F) to pass through from an air inlet (22a) to an air outlet (22b) and comprising a fairing (40) forming a duct which extends between an upstream end (40a) and a downstream end (40b) and inside which at least one heat exchanger (24, 26, 28) is arranged, the fairing (40) comprising at least one junction wall (410) defining the duct, the junction wall (410) comprising a suction opening (01, 02, 03) forming the air inlet (22a) arranged upstream of the heat exchanger(s) (24, 26, 28), the cooling module also comprising a manifold box (41) located next to the downstream end (40b), the manifold box (41) being configured to receive a tangential-flow turbomachine (30) which is configured to generate the airflow (F), the manifold box (41) also comprising the air outlet (22b).

IPC 8 full level

B60K 11/08 (2006.01); **B60K 1/00** (2006.01); **B60K 11/04** (2006.01); **F01P 7/10** (2006.01); **F01P 11/10** (2006.01)

CPC (source: EP US)

B60K 11/04 (2013.01 - EP US); **B60K 11/08** (2013.01 - EP US); **B60K 11/085** (2013.01 - EP); **F01P 3/18** (2013.01 - EP); **F01P 5/06** (2013.01 - EP); **F01P 7/10** (2013.01 - EP); **F01P 11/10** (2013.01 - EP); **F04D 17/04** (2013.01 - EP); **F04D 29/424** (2013.01 - EP); **B60K 2001/003** (2013.01 - EP); **B60K 2001/005** (2013.01 - EP); **B60K 2001/006** (2013.01 - EP); **F01P 2003/187** (2013.01 - EP)

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)

FR 3118609 A1 20220708; **FR 3118609 B1 20240412**; CN 116963924 A 20231027; EP 4274756 A1 20231115; US 2024066975 A1 20240229; WO 2022148631 A1 20220714

DOCDB simple family (application)

FR 2100072 A 20210105; CN 202180093171 A 20211216; EP 2021086236 W 20211216; EP 21840534 A 20211216; US 202118270977 A 20211216