

Title (en)

COOLING DEVICE FOR A VEHICLE FRONT OF A MOTOR VEHICLE

Title (de)

KÜHLVORRICHTUNG FÜR EINE FAHRZEUGFRONT EINES KRAFTFAHRZEUGS

Title (fr)

DISPOSITIF DE REFROIDISSEMENT POUR L'AVANT D'UN VÉHICULE À MOTEUR

Publication

EP 3824169 A1 20210526 (DE)

Application

EP 19742163 A 20190715

Priority

- DE 102018117091 A 20180716
- EP 2019068941 W 20190715

Abstract (en)

[origin: WO2020016145A1] The invention relates to a cooling device (10) for a vehicle front of a motor vehicle, preferably a utility vehicle. The cooling device (10) has a fan wheel (12), which can be or is drivingly connected to an output (22) of an internal combustion engine and is rotatably mounted in a vehicle-support-frame-fixed bearing (16). Because of the vehicle-support-frame-fixed arrangement of the fan wheel (12), it is no longer necessary to install the fan wheel (12) near the engine. The position changes thus enabled for the fan wheel and the internal combustion engine can enable, inter alia, improved ease of assembly of the drive train, more flexibility with respect to the use of the available installation space, and improved cooling power.

IPC 8 full level

F01P 5/04 (2006.01); **F01P 5/06** (2006.01)

CPC (source: EP)

F01P 5/04 (2013.01); **F01P 5/06** (2013.01)

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 2020016145 A1 20200123; BR 112020025400 A2 20210309; CN 112204233 A 20210108; DE 102018117091 A1 20200116;
EP 3824169 A1 20210526; EP 3824169 B1 20250108

DOCDB simple family (application)

EP 2019068941 W 20190715; BR 112020025400 A 20190715; CN 201980036447 A 20190715; DE 102018117091 A 20180716;
EP 19742163 A 20190715