

Title (en)

PUMP GROUP COMPRISING TWO COMMAND MODULES

Title (de)

PUMPENGRUPPE MIT ZWEI STEUERMODULEN

Title (fr)

GRUPE DE POMPES COMPRENANT DEUX MODULES DE COMMANDE

Publication

EP 3894707 B1 20221123 (EN)

Application

EP 19813135 A 20191113

Priority

- IT 201800010971 A 20181211
- IB 2019059747 W 20191113

Abstract (en)

[origin: WO2020121083A1] The invention is a pump group (1) of a cooling system of a vehicle, preferably for cooling the engine group of the vehicle. The pump group (1) has a main axis (X-X) and comprises an axial flow stator (2) which produces an electromagnetic action in a direction parallel to the main axis X-X. Moreover, the pump group (1) comprises two command modules (3) positioned at the two opposite axial ends of the stator 2. Each command module (3) comprises an impeller (4), an impeller shaft (5) which extends along the main axis (X- X) and comprises an impeller end (51) on which the impeller (4) is integrally connected and a control portion (52) adapted to receive a rotational control action and a rotor (6) integrally connected to said control portion (52) controllable in rotation by the action of the stator (2).

IPC 8 full level

F04D 13/06 (2006.01); **F04D 13/14** (2006.01)

CPC (source: EP US)

F04D 13/0666 (2013.01 - EP US); **F04D 13/14** (2013.01 - EP US); **F04D 15/0072** (2013.01 - EP); **F04D 29/42** (2013.01 - US)

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

DOCDB simple family (publication)

WO 2020121083 A1 20200618; CN 113195897 A 20210730; CN 113195897 B 20230609; EP 3894707 A1 20211020; EP 3894707 B1 20221123; MX 2021005103 A 20210615; US 2022025889 A1 20220127

DOCDB simple family (application)

IB 2019059747 W 20191113; CN 201980080167 A 20191113; EP 19813135 A 20191113; MX 2021005103 A 20191113; US 201917299371 A 20191113