

Title (en)
HVAC MODULE

Title (de)
HVAC-MODUL

Title (fr)
MODULE CVCA

Publication
EP 3941765 A4 20230628 (EN)

Application
EP 19770409 A 20190318

Priority
• US 201862644880 P 20180319
• US 2019022819 W 20190318

Abstract (en)
[origin: WO2019183001A1] An HVAC module for a vehicle includes a housing. A shaft end is connected to a shaft for connection to a complementary actuator for adjusting a rotational position of the shaft to thereby adjust a position of an airflow control door in the housing. The shaft end defines an actuation axis. An externally threaded boss, coaxial with the shaft end, is defined on an exterior surface of the housing. A rotation stop post projects from the housing to engage a catch defined by the complementary actuator. The housing is to retain the complementary actuator by threading engagement with the externally threaded boss and by engagement between the rotation stop post and the catch to selectably prevent rotation of a shell of the complementary actuator about the actuation axis. The complementary actuator is interchangeably an electrically powered rotary actuator and a manually operable rotary actuator.

IPC 8 full level
B60H 1/00 (2006.01)

CPC (source: EP)
B60H 1/00857 (2013.01); **F16B 39/10** (2013.01)

Citation (search report)
• [XAI] EP 1811188 A1 20070725 - VALEO SYSTEMES THERMIQUES [FR]
• [A] LU 90774 B1 20020327 - DELPHI TECH INC [US]
• [A] US 2015031279 A1 20150129 - CHIKAGAWA NORIYUKI [JP]
• [A] EP 1216861 A2 20020626 - BEHR GMBH & CO [DE]
• See references of WO 2019183001A1

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 2019183001 A1 20190926; CN 111819094 A 20201023; EP 3941765 A1 20220126; EP 3941765 A4 20230628

DOCDB simple family (application)
US 2019022819 W 20190318; CN 201980017918 A 20190318; EP 19770409 A 20190318