

Title (en)  
COOLER FAN MODULE

Title (de)  
KÜHLERLÜFTERMODUL

Title (fr)  
MODULE VENTILATEUR DE RADIATEUR

Publication  
**EP 3655661 A1 20200527 (DE)**

Application  
**EP 18743472 A 20180719**

Priority  
• DE 102017116352 A 20170720  
• EP 2018069579 W 20180719

Abstract (en)  
[origin: WO2019016295A1] The present invention relates to a cooler fan module (10), having: a fan frame (2), a fan wheel recess (4) formed in the fan frame (2), wherein the fan wheel recess (4) is bounded by a frame ring (2a), a motor mount (3), which is arranged within the fan wheel recess (4) and is mechanically connected to the fan frame (2) by means of struts (7), a motor (5), more particularly an electric motor 5, which is held at least partially in the motor mount (3), and a fan wheel (6), which is arranged in the fan wheel recess (4) and is rotationally driven by the motor (5), wherein the cooler fan module (10) further has a separately formed, annular structure element (8), which is arranged on the frame ring (2a).

IPC 8 full level  
**F04D 19/00** (2006.01); **F01P 5/04** (2006.01); **F01P 5/06** (2006.01); **F01P 11/04** (2006.01); **F04D 29/16** (2006.01); **F04D 29/52** (2006.01); **F04D 29/64** (2006.01)

CPC (source: EP KR US)  
**F01P 11/10** (2013.01 - EP KR US); **F04D 25/08** (2013.01 - KR US); **F04D 29/164** (2013.01 - EP KR); **F04D 29/526** (2013.01 - EP KR); **F01P 5/06** (2013.01 - US); **F01P 2005/046** (2013.01 - EP KR); **F04D 19/002** (2013.01 - US); **F04D 29/164** (2013.01 - US); **F04D 29/646** (2013.01 - EP KR); **F05D 2250/294** (2013.01 - EP KR); **F05D 2250/75** (2013.01 - EP KR); **F05D 2260/94** (2013.01 - EP KR)

Citation (search report)  
See references of WO 2019016295A1

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 2019016295 A1 20190124**; CN 110799756 A 20200214; DE 102017116352 A1 20190124; EP 3655661 A1 20200527; EP 3655661 B1 20220525; JP 2020527208 A 20200903; KR 102296698 B1 20210831; KR 20200019975 A 20200225; US 11220953 B2 20220111; US 2021148277 A1 20210520

DOCDB simple family (application)  
**EP 2018069579 W 20180719**; CN 201880043377 A 20180719; DE 102017116352 A 20170720; EP 18743472 A 20180719; JP 2020502290 A 20180719; KR 20207001773 A 20180719; US 201816632452 A 20180719