

Title (en)
SUPPORT MODULE FOR A FAN AND FAN HAVING A CORRESPONDING SUPPORT MODULE

Title (de)
TRAGMODUL FÜR EINEN VENTILATOR UND VENTILATOR MIT EINEM ENTSPRECHENDEN TRAGMODUL

Title (fr)
MODULE DE SUPPORT CONÇU POUR UN VENTILATEUR ET VENTILATEUR ÉQUIPÉ D'UN MODULE DE SUPPORT CORRESPONDANT

Publication
EP 4090852 A1 20221123 (DE)

Application
EP 20859651 A 20201204

Priority
• DE 102020200363 A 20200114
• DE 2020200107 W 20201204

Abstract (en)
[origin: WO2021143971A1] The invention relates to a support module for a fan, which fan comprises a motor and a fan impeller rotationally driven by the motor, in particular for a radial or diagonal fan, for fastening the fan impeller between an inflow-side nozzle plate and a bottom plate, which lies opposite from the nozzle plate at a distance, the motor together with the fan impeller being mounted, with rotational fixation, on or in the bottom plate and being held on the nozzle plate by means of struts extending between the bottom plate and the nozzle plate. Said support module is characterized in that, in a compact design, the struts are adapted to the flow exiting from the fan impeller. A fan is equipped with a corresponding support module.

IPC 8 full level
F04D 29/42 (2006.01); **F04D 25/06** (2006.01); **F04D 25/08** (2006.01); **F04D 29/02** (2006.01); **F04D 29/44** (2006.01); **F04D 29/62** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 25/06 (2013.01 - EP US); **F04D 25/08** (2013.01 - EP US); **F04D 29/023** (2013.01 - EP US); **F04D 29/4226** (2013.01 - US); **F04D 29/4233** (2013.01 - US); **F04D 29/4246** (2013.01 - EP); **F04D 29/444** (2013.01 - EP US); **F04D 29/626** (2013.01 - EP US); **F04D 29/667** (2013.01 - EP US); **F05D 2230/54** (2013.01 - EP); **F05D 2250/52** (2013.01 - EP); **F05D 2250/71** (2013.01 - EP)

Citation (search report)
See references of WO 2021143971A1

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

Designation validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020200363 A1 20210715; BR 112022012984 A2 20220913; CN 115053072 A 20220913; EP 4090852 A1 20221123; JP 2023510519 A 20230314; US 2023121923 A1 20230420; WO 2021143971 A1 20210722

DOCDB simple family (application)
DE 102020200363 A 20200114; BR 112022012984 A 20201204; CN 202080092983 A 20201204; DE 2020200107 W 20201204; EP 20859651 A 20201204; JP 2022540636 A 20201204; US 202017792359 A 20201204