

Title (en)
CENTRIFUGAL WIND WHEEL AND AIR TREATMENT DEVICE HAVING SAME

Title (de)
ZENTRIFUGALWINDRAD UND LUFTBEHANDLUNGSVORRICHTUNG DAMIT

Title (fr)
ROUE ÉOLIENNE CENTRIFUGE ET DISPOSITIF DE TRAITEMENT D'AIR LA COMPRENANT

Publication
EP 4166792 A4 20231206 (EN)

Application
EP 20954974 A 20201116

Priority
• CN 202022179591 U 20200928
• CN 202011044953 A 20200928
• CN 2020128977 W 20201116

Abstract (en)
[origin: EP4166792A1] A centrifugal wind wheel (100) and an air treatment device having same. The centrifugal wind wheel (100) comprises a hub (1) and blades (2), wherein a plurality of air input holes (10) are formed in the hub (1), the plurality of air input holes (10) are arranged at intervals in the circumferential direction of the hub (1), and each air input hole (10) penetrates the hub (1); and a plurality of blades (2) are provided, the plurality of blades (2) are all arranged on the hub (1), the plurality of blades (2) are arranged at intervals in the circumferential direction of the hub (1) and are arranged at intervals on the radial outer side of the plurality of air input holes (10), the number of blades (2) is equal to the number of air input holes (10), and each blade (2) is arranged opposite a corresponding air input hole (10) in the radial direction of the hub (1).

IPC 8 full level
F04D 17/16 (2006.01); **F04D 25/08** (2006.01); **F04D 29/28** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)
F04D 25/082 (2013.01); **F04D 29/282** (2013.01); **F04D 29/5806** (2013.01); **F04D 17/162** (2013.01)

Citation (search report)
• [X] EP 1933040 A1 20080618 - MITSUBISHI ELECTRIC CORP [JP]
• [XI] EP 3104013 A1 20161214 - MAHLE INT GMBH [DE]
• [A] DE 102014010795 A1 20160128 - ECHO MOTORGERÄTE VERTRIEB DEUTSCHLAND GMBH [DE]
• See references of WO 2022062130A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4166792 A1 20230419; EP 4166792 A4 20231206; WO 2022062130 A1 20220331

DOCDB simple family (application)
EP 20954974 A 20201116; CN 2020128977 W 20201116