

Title (en)
CENTRIFUGAL AIR BLOWER AND AIR CONDITIONER USING SAME

Title (de)
ZENTRIFUGALLUFTGEBLÄSE UND KLIMAANLAGE DAMIT

Title (fr)
SOUFFLANTE D'AIR CENTRIFUGE ET CLIMATISEUR UTILISANT CELLE-CI

Publication
EP 3922860 A4 20220216 (EN)

Application
EP 19914580 A 20190207

Priority
JP 2019004355 W 20190207

Abstract (en)
[origin: EP3922860A1] Disclosed is a centrifugal fan including a backing plate to be rotated, a ring-shaped rim facing the backing plate, and a plurality of blades arranged to surround a virtual rotation axis of the backing plate, the plurality of blades being arranged between the backing plate and the rim and each having an inner edge and an outer edge, wherein a blade chord distance has a maximum at one of first cross-sections that is located closer to the rim than to a middle cross-section where the first cross-sections are cross-sections of each of the plurality of blades in planes parallel to the backing plate, the blade chord distance is a linear distance between the inner edge and the outer edge of each of the plurality of blades in each of the first cross-sections, and the middle cross-section is one of the first cross-sections that has an intersection of the outer edge with a plane perpendicular to the virtual rotation axis, the plane being at a middle of an axial opening dimension of an air outlet defined between a periphery of the rim and a periphery of the backing plate, the axial opening dimension being defined as a dimension along the virtual rotation axis.

IPC 8 full level
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CPC (source: EP)
F04D 29/281 (2013.01); **F04D 29/30** (2013.01); **F05D 2240/301** (2013.01); **F05D 2240/303** (2013.01)

Citation (search report)

- [XA] EP 2275689 A1 20110119 - DAIKIN IND LTD [JP]
- [X] US 2015316073 A1 20151105 - LÖRCHER FRIEDER [DE], et al
- See references of WO 2020161850A1

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

DOCDB simple family (publication)
EP 3922860 A1 20211215; **EP 3922860 A4 20220216**; CN 113439163 A 20210924; JP 7003301 B2 20220120; JP WO2020161850 A1 20210930; WO 2020161850 A1 20200813

DOCDB simple family (application)
EP 19914580 A 20190207; CN 201980090355 A 20190207; JP 2019004355 W 20190207; JP 2020570283 A 20190207