

Title (en)

CENTRIFUGAL FAN, AIR DUCT SYSTEM, AND AIR CONDITIONER

Title (de)

RADIALGEBLÄSE, LUFTKANALSYSTEM UND KLIMAAANLAGE

Title (fr)

VENTILATEUR CENTRIFUGE, SYSTÈME DE CONDUITE D'AIR ET CLIMATISEUR

Publication

**EP 3855023 A1 20210728 (EN)**

Application

**EP 19887719 A 20191012**

Priority

- CN 201811389839 A 20181120
- CN 2019110757 W 20191012

Abstract (en)

A centrifugal fan, an air duct system, and an air conditioner. The centrifugal fan includes a volute body (113) and a centrifugal fan blade (200) disposed inside the volute body (113). The volute body (113) includes a base plate (100), a front plate (308), and a side plate (101) disposed between the base plate (100) and the front plate (308). An air inlet of the centrifugal fan blade (200) is disposed in the front plate (308). A volute tongue (309) is defined by the side plate (101). The volute tongue (309) is inclined from a side of the base plate (100) toward a side of the front plate (308), and a volute tongue gap is gradually reduced from the side of the base plate (100) to the side of the front plate (308).

IPC 8 full level

**F04D 17/08** (2006.01); **F04D 29/42** (2006.01)

CPC (source: CN EP)

**F04D 17/08** (2013.01 - CN); **F04D 25/166** (2013.01 - CN EP); **F04D 29/422** (2013.01 - CN EP); **F04D 29/4233** (2013.01 - CN); **F04D 29/4246** (2013.01 - EP); **F04D 29/667** (2013.01 - CN); **F24F 1/0014** (2013.01 - CN EP); **F24F 1/0022** (2013.01 - CN EP); **F24F 1/0033** (2013.01 - CN EP); **F24F 13/24** (2013.01 - CN EP); **F24F 2013/247** (2013.01 - CN)

Citation (search report)

See references of WO 2020103602A1

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 3855023 A1 20210728**; **EP 3855023 B1 20231129**; CN 111197584 A 20200526; WO 2020103602 A1 20200528

DOCDB simple family (application)

**EP 19887719 A 20191012**; CN 201811389839 A 20181120; CN 2019110757 W 20191012