

Title (en)  
ELECTRIC BLOWER

Title (de)  
ELEKTRISCHES GEBLÄSE

Title (fr)  
SOUFFLANTE ÉLECTRIQUE

Publication  
**EP 4130486 A4 20230913 (EN)**

Application  
**EP 21774400 A 20210208**

Priority  
• JP 2020055931 A 20200326  
• JP 2021004501 W 20210208

Abstract (en)  
[origin: EP4130486A1] A centrifugal fan included in an electric blower has: a shroud having an air suction port; a hub facing the shroud; and a plurality of blades each disposed between the shroud and the hub. In each of the plurality of blades, an inner periphery-side end portion is located inside the air suction port, and is inclined to locate a shroud-side portion of the inner periphery-side end portion on a positive side of a rotation direction of the centrifugal fan with respect to a hub-side portion. A radius of curvature in an in-plane direction of a main surface of the hub in an end surface on a hub side is larger in an outer periphery-side end portion than in the inner periphery-side end portion, an angle formed by a side surface of the hub-side portion and the main surface of the hub is larger in the outer periphery-side end portion than in the inner periphery-side end portion, and an inlet angle in an inner periphery-side portion is equal to or more than 40 degrees.

IPC 8 full level  
**F04D 29/30** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP)  
**F04D 29/281** (2013.01); **F04D 29/30** (2013.01); **F05D 2240/303** (2013.01)

Citation (search report)  
• [X] US 2013084173 A1 20130404 - FUKUDA TAKAKO [JP], et al  
• [I] JP H03151598 A 19910627 - MATSUSHITA ELECTRIC IND CO LTD  
• [I] JP 2011226398 A 20111110 - HITACHI APPLIANCES INC  
• [A] US 2018283395 A1 20181004 - SATO SEIJI [JP]

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)  
**EP 4130486 A1 20230208**; **EP 4130486 A4 20230913**; CN 115298443 A 20221104; JP WO2021192656 A1 20210930;  
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**EP 21774400 A 20210208**; CN 202180021856 A 20210208; JP 2021004501 W 20210208; JP 2022509358 A 20210208