

Title (en)
Blowing device

Title (de)
Blasvorrichtung

Title (fr)
Dispositif de soufflage

Publication
EP 1683972 A3 20110629 (EN)

Application
EP 05028212 A 20051222

Priority
KR 20050006643 A 20050125

Abstract (en)
[origin: EP1683972A2] Disclosed herein is a blowing device for small-sized electronic appliances such as cleaning apparatuses. The blowing device comprises a housing (50), a centrifugal impeller (60), a guide vane (70), and a motor for rotating the centrifugal impeller (60). The centrifugal impeller (60) comprises a shroud (62), a hub (64), and a plurality of impeller blades (66) which have an average diameter 87~93 % of a diameter of the housing. The shroud (62) and the hub (64) of the centrifugal impeller (60), and the guide vane (70) are optimally designed with respect to a size of the housing (50) or an average diameter of the impeller blades (66), maximizing fan efficiency and heat dissipation of the motor.

IPC 8 full level
F04D 17/16 (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP KR US)
A63H 33/046 (2013.01 - KR); **A63H 33/10** (2013.01 - KR); **F04D 17/165** (2013.01 - EP US); **F04D 29/281** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP US); **F04D 29/4253** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
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