

Title (en)  
Axial ventilator

Title (de)  
Axiallüfter

Title (fr)  
Ventilateur axial

Publication  
**EP 2381112 B1 20171025 (DE)**

Application  
**EP 11162670 A 20110415**

Priority  
DE 102010028099 A 20100422

Abstract (en)  
[origin: EP2381112A2] The axial fan (1) has a hub (2) for connecting the axial fan with an electric drive motor, where the hub is designed in a cup-shaped manner. A front area (3) is interrupted to achieve a torsionally-smooth and bendable connection for multiple protrusions (6). Web-like connecting elements (7) are located between each adjacent protrusions.

IPC 8 full level  
**F04D 29/32** (2006.01)

CPC (source: EP)  
**F04D 29/329** (2013.01); **F04D 29/668** (2013.01)

Citation (examination)  
• EP 1892421 A2 20080227 - BEHR GMBH & CO KG [DE]  
• WO 03040570 A1 20030515 - BOSCH GMBH ROBERT [DE], et al

Cited by  
EP3076022A1; US11767761B2; EP3892860A1; WO2012080035A1; CN111919034A; JPWO2019186910A1; EP3779207A4

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 2381112 A2 20111026; EP 2381112 A3 20130123; EP 2381112 B1 20171025**; DE 102010028099 A1 20111027

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