

Title (en)  
Radial fan and nozzle for a radial fan

Title (de)  
Radialventilator und Düse für einen Radialventilator

Title (fr)  
Ventilateur radial et buse pour ventilateur radial

Publication  
**EP 1122444 B1 20050323 (DE)**

Application  
**EP 01100089 A 20010111**

Priority  
DE 20001746 U 20000201

Abstract (en)  
[origin: EP1122444A2] The radial ventilator fan has a funnel shaped air inlet nozzle (1) for the entry of axial primary air flow (P) fed to a free blowing fan rotor (2) for radial discharge. The wall of the nozzle has a frusto-conical inflow section (3a) leading to a cylindrical central flow duct (4) on the suction side of the fan. A gap (5) for secondary air inflow is provided between the rotor and the inlet duct wall. An annular formation (6) is provided in the inlet so that the nozzle forms a boundary layer of the primary air flow causing an air flow mixing.

IPC 1-7  
**F04D 29/42**; F04D 29/66; F04D 29/68

IPC 8 full level  
**F04D 29/42** (2006.01); **F04D 29/66** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP)  
**F04D 29/4213** (2013.01); **F04D 29/4226** (2013.01); **F04D 29/681** (2013.01); **F04D 29/684** (2013.01)

Cited by  
EP1479917A1; DE102016118856A1; DE202016105522U1; EP3289226B1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1122444 A2 20010808**; **EP 1122444 A3 20030205**; **EP 1122444 B1 20050323**; AT E291698 T1 20050415; DE 20001746 U1 20010621; DE 50105660 D1 20050428

DOCDB simple family (application)  
**EP 01100089 A 20010111**; AT 01100089 T 20010111; DE 20001746 U 20000201; DE 50105660 T 20010111