

Title (en)  
RADIAL FAN WITH AIR-GAS MIXING ARRANGEMENT

Title (de)  
RADIALLÜFTER MIT LUFT-GAS MISCHUNGSANORDNUNG

Title (fr)  
VENTILATEUR RADIAL AVEC DISPOSITIF DE MÉLANGE AIR-GAZ

Publication  
**EP 3064778 A1 20160907 (EN)**

Application  
**EP 16158639 A 20160304**

Priority  
IT MI20150336 A 20150306

Abstract (en)  
A housing (3) for a fan (1) forms an impeller space (6) for rotationally accommodating an impeller (2) rotatable about a rotation axis (A), an air intake opening (20) in direct communication with the impeller space (6), an exhaust opening (21) for an air-gas mixture, a gas inlet opening (25) spaced apart from the air intake opening (20) and in direct communication with the impeller space (6), so that the impeller space (6) forms a space for mixing an air flow (31) from the air intake opening (20) with a gas flow (32) from the gas inlet opening (25).

IPC 8 full level  
**F04D 17/16** (2006.01); **F04D 29/42** (2006.01); **F23D 14/62** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP)  
**F04D 17/162** (2013.01); **F04D 29/4213** (2013.01); **F04D 29/424** (2013.01); **F23D 14/36** (2013.01); **F23D 14/62** (2013.01); **F04D 29/624** (2013.01)

Citation (search report)  
• [XII] DE 102011014117 A1 20120920 - EBM PAPST LANDSHUT GMBH [DE]  
• [XII] EP 2597370 A1 20130529 - LN 2 SRL SOCIO UNICO [IT]  
• [XP] EP 2927584 A1 20151007 - HONEYWELL TECHNOLOGIES SARL [CH]

Cited by  
CN111032384A; CN115483413A; EP3722670A1; EP3916243A1; IT202000012616A1; EP3739216A1; DE102019112645A1; WO2018065155A1; US10815863B2

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)  
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