

Title (en)  
FAN HAVING A PRINTED CIRCUIT BOARD

Title (de)  
LÜFTER MIT EINER LEITERPLATTE

Title (fr)  
VENTILATEUR AVEC UNE CARTE À CIRCUITS IMPRIMÉS

Publication  
**EP 2158403 B1 20101117 (DE)**

Application  
**EP 08773573 A 20080621**

Priority  
• EP 2008005029 W 20080621  
• DE 202007009407 U 20070628  
• DE 202008003033 U 20080226

Abstract (en)  
[origin: WO2009000481A1] A fan (20) to which the invention relates has: a motor with a stator and with a rotor (60) with at least one fan vane, at least one air inlet with an air inlet opening (102) for the inlet of air, at least one air outlet with an air outlet opening (32) for the outlet of air, and a printed circuit board (80) with at least one cutout, which printed circuit board (80) is arranged in the region of the air inlet in such a way that air can enter through the cutout into the fan (20), wherein motor electronics (88) are arranged on the printed circuit board (80).

IPC 8 full level  
**F04D 25/06** (2006.01); **F04D 25/08** (2006.01); **F04D 27/00** (2006.01)

CPC (source: EP US)  
**F04D 17/10** (2013.01 - EP US); **F04D 25/0613** (2013.01 - EP US); **F04D 25/0633** (2013.01 - EP US); **F04D 25/0666** (2013.01 - EP US); **F04D 25/068** (2013.01 - EP US); **F04D 25/08** (2013.01 - EP US); **F04D 27/00** (2013.01 - EP US); **F04D 27/001** (2013.01 - EP US)

Cited by  
US11837935B2; US11870316B2; US11876424B2; US11955863B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009000481 A1 20081231**; AT E488701 T1 20101215; DE 102008029907 A1 20090102; DE 202008008436 U1 20081113; DE 502008001841 D1 20101230; EP 2158403 A1 20100303; EP 2158403 B1 20101117; US 2010143170 A1 20100610; US 8297951 B2 20121030

DOCDB simple family (application)  
**EP 2008005029 W 20080621**; AT 08773573 T 20080621; DE 102008029907 A 20080624; DE 202008008436 U 20080624; DE 502008001841 T 20080621; EP 08773573 A 20080621; US 59612208 A 20080621