

Title (en)  
BLOWER

Title (de)  
GEBLÄSE

Title (fr)  
SOUFFLANTE

Publication  
**EP 3312431 A4 20190220 (EN)**

Application  
**EP 16811711 A 20160616**

Priority  
• JP 2015122088 A 20150617  
• JP 2016067959 W 20160616

Abstract (en)  
[origin: EP3312431A1] [Object] To achieve a blower that can reduce noise, improve the blowing efficiency, reduce the size, and drain water favorably. [Solution] A blower is configured to include a housing 10, an impeller 20 including a cone 22 connecting one ends 21a of blades 21 disposed cylindrically, the cone 22 being formed in a convex shape inside the blades 21, the convex shape having a height lower than the blades 21, the impeller being positioned inside the housing 10, an impeller mounting hole 130 of the housing, the impeller mounting hole 130 being provided close to the one ends 21a of the blades 21, an air suction hole 120 provided close to the other ends 21b of the blades 21, a discharge flow passage 110 formed between the housing 10 and the impeller 20, a motor 30 provided close to the one ends 21a of the blades 21, the motor 30 having a rotary driving shaft connected to the center 222 of the cone 22, a motor flange 40 for fixing the motor 30 to the impeller mounting hole 130, and an internal space partitioning member 50 present between the motor flange 40 and the impeller 20.

IPC 8 full level  
**F04D 29/42** (2006.01); **F04D 25/08** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP)  
**F04D 25/06** (2013.01); **F04D 29/4226** (2013.01); **F04D 29/626** (2013.01); **F04D 29/706** (2013.01); **F05D 2260/602** (2013.01)

Citation (search report)  
• [X] WO 2007048205 A1 20070503 - RESMED LTD [AU], et al  
• [XA] JP H05133393 A 19930528 - NIPPON DENSO CO  
• [X] US 2004131465 A1 20040708 - OCHIAI TOSHINORI [JP], et al  
• See references of WO 2016204237A1

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Designated contracting state (EPC)  
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**EP 3312431 A1 20180425**; **EP 3312431 A4 20190220**; **EP 3312431 B1 20210519**; CN 107614884 A 20180119; CN 107614884 B 20200728; JP 6719841 B2 20200708; JP WO2016204237 A1 20180405; WO 2016204237 A1 20161222

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**EP 16811711 A 20160616**; CN 201680028499 A 20160616; JP 2016067959 W 20160616; JP 2017525299 A 20160616