

Title (en)  
BLOWER AND AIR CONDITIONER WITH THE BLOWER

Title (de)  
LÜFTER UND KLIMAANLAGE MIT DIESEM LÜFTER

Title (fr)  
VENTILATEUR ET CONDITIONNEUR D'AIR AVEC VENTILATEUR

Publication  
**EP 1382856 A4 20050105 (EN)**

Application  
**EP 01274219 A 20011225**

Priority  
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• JP 2001129321 A 20010426

Abstract (en)  
[origin: EP1382856A1] In a blower having an impeller (1) formed by radially attaching a plurality of blades (3, 3, ...) to an outer periphery of a hub (2), a specific region (Q) that extends in a predetermined width along a trailing edge (3b) of each blade (3) in a wingspan direction is bent towards a negative pressure surface (3f) side of the blade. On the negative pressure surface (3f) side of the blade, airflow separation hardly occurs and turbulence of a rear stream (A0) is suppressed. Meanwhile, on a pressure surface (3e) side of the blade, the airflow discharged rearwards from the trailing edge (3b) becomes smooth and less turbulent. The width of the rear stream (A0) is reduced and the aerodynamic characteristics of the blades are improved. <IMAGE>

IPC 1-7  
**F04D 29/30**; **F24F 1/00**

IPC 8 full level  
**F04D 29/30** (2006.01); **F04D 29/38** (2006.01); **F24F 1/00** (2006.01)

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Citation (search report)  
• [X] JP H0285898 U 19900706  
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• [X] EP 0955469 A2 19991110 - MATSUSHITA ELECTRIC IND CO LTD [JP]  
• [A] US 6116856 A 20000912 - KARADGY VIATCHESLAV G [RU], et al  
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