

Title (en)
AXIAL FLOW FAN

Title (de)
AXIALLÜFTER

Title (fr)
VENTILATEUR AXIAL

Publication
EP 1906028 A1 20080402 (EN)

Application
EP 06768285 A 20060719

Priority
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• JP 2005211542 A 20050721

Abstract (en)
In an axial flow fan provided with a plurality of impeller blades (13) provided in a hub (14), and a plurality of bent portions (13c) each formed by bending an outer peripheral edge of each of the impeller blades (13) toward a negative pressure surface (13e) of each of the impeller blades (13), a protruding portion (13f) is provided in a portion in which a blowing wind speed is high and a pressure rising work is most effectively carried out, in a rear edge portion (13b) of each of the impeller blades (13). Each of the protruding portions (13f) protrudes to an inverse direction to a rotating direction of each of the impeller blades (13) with respect to a straight line L connecting a proximal end and an outer peripheral end in the rear edge portion (13b) of each of the impeller blades (13). In this case, if a vane area of each of the impeller blades (13) is enlarged by setting a protruding portion (13f) at a predetermined position in the rear edge portion (13b) of each of the impeller blades (13), it is possible to effectively compensate for shortage of an amount of rise in static pressure which is lowered by bending the outer peripheral edge of each of the impellers (13).

IPC 8 full level
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Cited by
EP2182176A3; EP2547904A4; WO2011116231A2; US10294956B2; US11448232B2

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