

Title (en)

Vortex flow blower and method of manufacturing the same

Title (de)

Wirbelstromgebläse und Verfahren zu dessen Herstellung

Title (fr)

Ventilateur à tourbillon et sa méthode de fabrication

Publication

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Application

EP 90102729 A 19900212

Priority

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- JP 5139089 A 19890303

Abstract (en)

[origin: EP0383238A2] The present invention relates to a vortex flow blower used as an air source to be incorporated into general industrial machines. The vortex flow blower according to the present invention is characterized in that the shape of the blade (5) in its impeller (1) is three dimensionally formed such that at least the inner portion of the blade (5) can be adapted to the three dimensional internal flow. According to the present invention, the aerodynamic performance can be significantly improved and the size of a vortex flow blower can be reduced. Furthermore, an impeller (1) having three dimensionally shaped blades (5) is manufactured by independently manufacturing the shroud (11) and the blades (5) and coupling them, so that the impeller (1) of a complicated shape can be readily manufactured. Furthermore, since the blade (5) can be made of a thin and light material, the secondary moment of inertia of the impeller can be reduced.

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CPC (source: EP KR)

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Cited by

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