

Title (en)

IMPELLER FOR VORTEX FLOW BLOWER AND METHOD OF MAKING SAID IMPELLER

Publication

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Application

**EP 91917817 A 19911016**

Priority

JP 27941190 A 19901019

Abstract (en)

[origin: WO9207191A1] This invention relates to an impeller for a vortex flow blower provided with blades in a three-dimensional shape, formed independently of a blade-casing, and then fixed to said casing, and further relates to a method of making said impeller comprising steps of forming the blade-casing only independently of the other members, forming the blades only independently of the other members, and fixing the blades to the blade casing. This invention can easily accomodate an impeller in an extremely complicated shape and provides a vortex flow blower of high performance at low cost without fail.

IPC 1-7

**F04D 23/00**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] EP 0383238 A2 19900822 - HITACHI LTD [JP]
- [Y] US 3147541 A 19640908 - HATHAWAY CHARLES A
- [Y] GB 732334 A 19550622 - DOYLE VACUUM CLEANER CO
- See references of WO 9207191A1

Cited by

CN105683580A; US10273960B2; WO2015055565A1; US7470104B2; US7806649B2

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