

Title (en)

IMPELLER FOR MULTIBLADE BLOWER, AND MULTIBLADE BLOWER HAVING THE SAME

Title (de)

LAUFRAD FÜR MEHRFLÜGELGEBLÄSE UND DIESES AUFWEISENDES MEHRFLÜGELGEBLÄSE

Title (fr)

IMPULSEUR POUR SOUFFLANTE MULTIAUBES ET SOUFFLANTE MULTIAUBES DOTE DUDIT IMPULSEUR

Publication

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Application

EP 02733494 A 20020612

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Abstract (en)

[origin: EP1411247A1] The invention provides an impeller capable of reducing the noise due to turbulence vortexes produced in the vicinity of the main plate of the impeller, and provides a low-noise multiblade blower. A multiblade blower (40) consists mainly of an impeller (43), a casing (11) covering the impeller, and a motor (14) for rotating the impeller. The impeller comprises a plurality of blades (33) fixed in the outer peripheral edge of a main plate (61) in the form of a circular plate, the blades being connected together at their other ends by an annular side plate (62).

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Citation (search report)

- [XAY] US 6168734 B1 20010102 - BOTROS MONIER BIBAWY [US]
- [Y] US 6158954 A 20001212 - NABESHIMA NORIYUKI [JP], et al
- [X] GB 2296943 A 19960717 - VALEO CLIMATE CONTROL LTD [GB]
- [XA] FR 1299948 A 19620727
- [X] FR 1284741 A 19620216
- [X] DE 4204531 A1 19930819 - PVS KUNSTSTOFFTECHNIK GMBH & C [DE]
- [X] EP 0807760 A2 19971119 - CALSONIC CORP [JP]
- See references of WO 03002874A1

Cited by

EP1762729A1; CN105252058A; EP3034884A1; US7311494B2; US7163371B2; WO2008034049A1; US8235668B2; US9033655B2; US10161412B2; US10954955B2; TWI454619B

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