

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

**EP 1411247 A1 20040421 (EN)**

Application

**EP 02733494 A 20020612**

Priority

- JP 0205883 W 20020612
- JP 2001196179 A 20010628
- JP 2001196180 A 20010628
- JP 2001220008 A 20010719

Abstract (en)

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).

IPC 1-7

**F04D 29/28; F04D 29/30; F04D 29/66**

IPC 8 full level

**F04D 29/28 (2006.01); F04D 29/30 (2006.01); F04D 29/66 (2006.01)**

CPC (source: EP)

**F04D 29/283 (2013.01); F04D 29/30 (2013.01); F04D 29/667 (2013.01)**

Cited by

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

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1411247 A1 20040421; EP 1411247 A4 20040811; EP 1411247 B1 20080924;** AT E409287 T1 20081015; CN 1212478 C 20050727; CN 1395046 A 20030205; CN 2572074 Y 20030910; DE 60229060 D1 20081106; ES 2312576 T3 20090301; WO 03002874 A1 20030109

DOCDB simple family (application)

**EP 02733494 A 20020612;** AT 02733494 T 20020612; CN 02141245 A 20020628; CN 02240969 U 20020628; DE 60229060 T 20020612; ES 02733494 T 20020612; JP 0205883 W 20020612