

Title (en)

Motor blower and electric vacuum cleaner using same

Title (de)

Motorgebläse und elektrischer Staubsauger damit

Title (fr)

Ventilateur électrique et aspirateur électrique l'utilisant

Publication

EP 2000070 B1 20120201 (EN)

Application

EP 08251979 A 20080606

Priority

JP 2007151937 A 20070607

Abstract (en)

[origin: EP2000070A2] A motor blower (1) includes an electric motor (4) having a rotating shaft (3), a centrifugal blower (2) having a plurality of blower blades (34) and attached to the rotating shaft (3) of the electric motor (4), and a diffuser (21) having a plurality of diffuser blades (25) each of which is positioned at an outer peripheral portion of the centrifugal blower (21) so as to be opposed to air outlet portions formed to a circumferential surface of the centrifugal blower (21). Each of the blower blades (34) has a front end portion (34b) which is formed to almost linearly incline from one end portion toward another end portion of the blower blade (34). Due to the above structure, the motor blower (2) and the electric vacuum cleaner using the motor blower (2) can suppress or reduce a generation of abnormal noise even under operational conditions of low airflow rate and high frequency region.

IPC 8 full level

A47L 9/00 (2006.01); **A47L 5/36** (2006.01); **F04D 29/44** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP KR)

A47L 5/22 (2013.01 - EP); **A47L 9/0081** (2013.01 - EP); **A47L 9/22** (2013.01 - KR); **A47L 9/28** (2013.01 - KR); **F04D 29/282** (2013.01 - EP); **F04D 29/288** (2013.01 - EP); **F04D 29/30** (2013.01 - EP); **F04D 29/44** (2013.01 - KR); **F04D 29/441** (2013.01 - EP); **F04D 29/666** (2013.01 - EP)

Cited by

DE102012211250A1; GB2467828A; GB2467828B; US10448797B2; EP2679828A2

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 2000070 A2 20081210; **EP 2000070 A3 20091014**; **EP 2000070 B1 20120201**; CN 101319682 A 20081210; JP 2008303793 A 20081218; KR 20080108021 A 20081211; RU 2008122877 A 20091220; RU 2388400 C2 20100510

DOCDB simple family (application)

EP 08251979 A 20080606; CN 200810108306 A 20080606; JP 2007151937 A 20070607; KR 20080052572 A 20080604; RU 2008122877 A 20080606