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(54) Title: DIFFUSER FOR A VACUUM CLEANER MOTOR-FAN ASSEMBLY

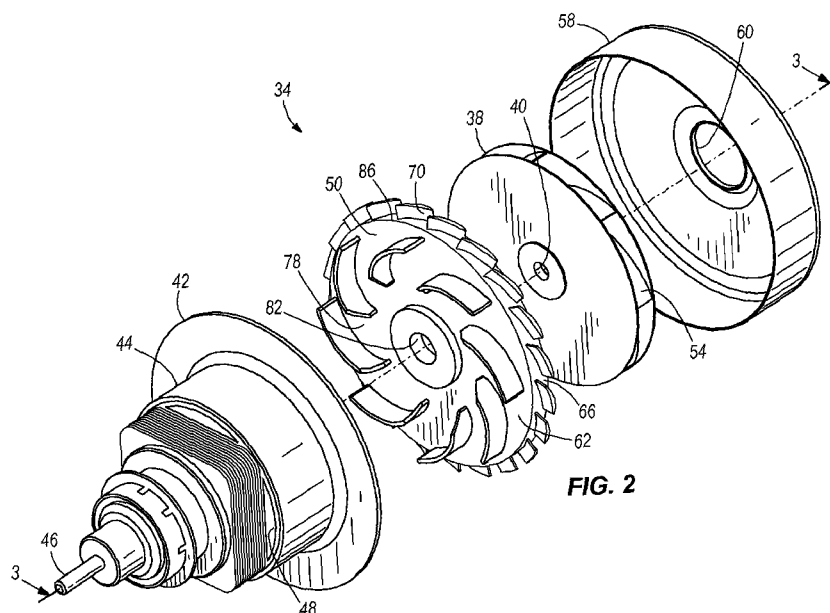


FIG. 2

(57) Abstract: A motor-fan assembly for a vacuum cleaner configured to remove debris from a surface. The motor-fan assembly includes a fan, a motor including an output shaft coupled to the fan, the motor operable to rotate the fan, and a diffuser. The diffuser includes a disc, a wall that surrounds the disc, and a plurality of vanes that are coupled to an outer surface of the wall and extend radially outward from the outer surface of the wall.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/022301**A. CLASSIFICATION OF SUBJECT MATTER***A47L 9/22(2006.01)i, F04D 29/28(2006.01)i, A47L 5/28(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A47L 9/22; H02K 3/38; A47L 9/00; A47L 5/00; A47L 9/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: diffuser, vane, air foil, wall, bound, disc

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX PA	JP 2011-229746 A (SANYO ELECTRIC CO LTD et al.) 17 November 2011 See page 3, paragraph [0011] - page 5, paragraph [0022] and figures 1 - 16.	1,2,5,11 3,4,6-10,12-20
A	KR 10-2006-0007637 A (LG ELECTRONICS INC.) 26 January 2006 See page 3, line 1 - page 3, line 30 and figures 1 - 6c.	1-20
A	US 06148473A A (EMBREE; MICHAEL E. et al.) 21 November 2000 See column 2, line 41 - column 12, line 6 and figures 1 - 8.	1-20
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A	US 2003-0147747 A1 (SIU CHUN TAM et al.) 07 August 2003 See page 1, paragraph [0013] - page 1, paragraph [0017] and figures 1 - 5.	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

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