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- (71) Applicant (for all designated States except US):
RESMED MOTOR TECHNOLOGIES INC [US/US];
9540 De Soto Avenue, Chatsworth, CA 91311 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MEBASSER, Samuel, Aziz** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US).

THOMAS, Peter, Jeffrey [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **VINOKUR, Roman** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **MCCULLOH, Kevin, Gene** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **LANE, William, S.** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **HSIA, Yeu-chuan** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **BEDNAR, Michael, David** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **FREESE, John, Paul** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **IWAHASHI, Karl, Yutaka** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **SEARS, David, Brent** [US/US]; c/o ResMed Motor Technologies Inc, 9540 De Soto Avenue, Chatsworth, CA 91311 (US). **KENYON, Barton, John** [AU/AU]; c/o ResMed Limited, 1 Elizabeth Macarthur Drive, Bella Vista, New South

[Continued on next page]

(54) Title: PAP SYSTEM BLOWER

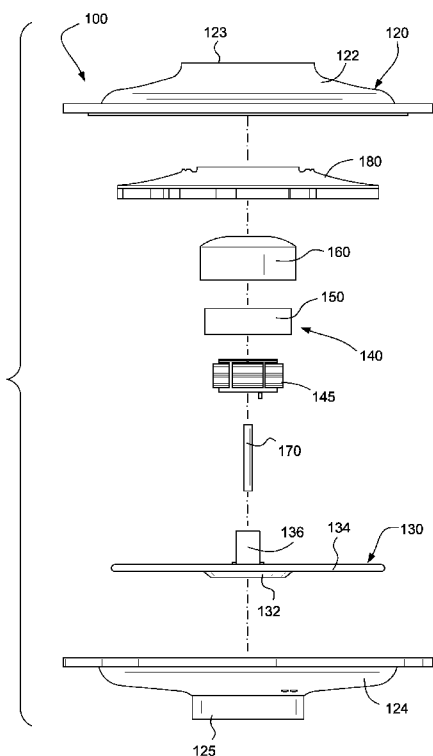


FIG. 2

(57) Abstract: A blower includes a housing including an inlet and an outlet, a bearing-housing structure provided to the housing and adapted to rotatably support a rotor, a motor provided to the bearing-housing structure and adapted to drive the rotor, and an impeller provided to the rotor. The bearing-housing structure includes a bearing shaft having a bearing surface that rotatably supports the rotor. The bearing shaft provides only a single bearing of the non-ball bearing type for the rotor.



Wales 2153 (AU). **KRUM, Richard, G.** [US/US]; 17161 Village 17, Camarillo, CA 93012 (US). **DANNAS, Par, Egron** [SE/US]; 1315 Witherspoon Drive, Thousand Oaks, CA 91360 (US). **SUZUKI, Hiroshi** [JP/US]; 29438 N. Mammoth Lane, Canyon Country, CA 91387 (US). **LEADER, Malcolm, Edward** [US/US]; 44 Mayday Lane, Durango, CO 81303 (US).

(74) **Agent: BOWEN, Paul, T.**; Nixon & Vanderhye P.C., 901 North Glebe Road, 11th Floor, Arlington, VA 22203-1808 (US).

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Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

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17 January 2013

A. CLASSIFICATION OF SUBJECT MATTER***A61M 16/06(2006.01)i, A61M 11/02(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)

A61M 16/06; A62B 7/00; F04D 29/40; F04D 25/06; F04D 29/046; A61M 16/00; F04B 17/03

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: blower, bearing, motor, impeller, airway, pressure

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2011-0073110 A1 (KENYON et al.) 31 March 2011 See the abstract; claim 68; paragraphs [0084] and [0087]-[0091]; and figs. 15-16.	1-3, 15-21, 24-29 , 45-48, 64-68
A	US 2008-0304986 A1 (KENYON et al.) 11 December 2008 See the abstract; claims 1-2 and 6; paragraphs [0057], [0059], [0065]; and fig. 1-1.	1-3, 15-21, 24-29 , 45-48, 64-68
A	US 7448383 B2 (DELACHE et al.) 11 November 2008 See the abstract; claim 1; column 5, lines 7-20; column 8, lines 47-50; and fig. 2.	1-3, 15-21, 24-29 , 45-48, 64-68
A	US 2008-0310978 A1 (HOFFMAN) 18 December 2008 See the abstract; claim 1; paragraphs [0025] and [0027]; and figs. 1 and 6.	1-3, 15-21, 24-29 , 45-48, 64-68



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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City, 302-701, Republic of Korea

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Authorized officer

LEE, Cheol Soo

Telephone No. 82-42-481-8525



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/034017**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 6,9,14,23,35-36,39,51-52,60,62,70-73
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
The above claims do not comply with PCT Article 6 because they are referring to unsearchable claims.
3. ☒ Claims Nos.: 4-5,7-8,10-13,22,30-34,37-38,40-44,49-50,53-59,61,63,69,74
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/034017

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