

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 November 2012 (22.11.2012)



(10) International Publication Number
WO 2012/156929 A9

(51) International Patent Classification:
A61M 16/06 (2006.01)

(21) International Application Number:
PCT/IB2012/052464

(22) International Filing Date:
16 May 2012 (16.05.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/486,984 17 May 2011 (17.05.2011) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,

[Continued on next page]

(54) Title: FLEXIBLE MEMBER ADJUSTABLE FOREHEAD SUPPORT CROSS-REFERENCE TO RELATED APPLICATIONS

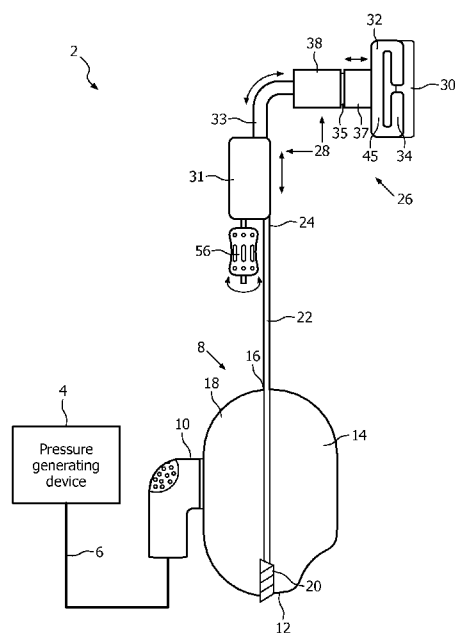


FIG. 1

(57) Abstract: A patient interface device includes a patient sealing assembly having a cushion and a frame member having a faceplate portion and an extension portion extending from the faceplate portion. The cushion is coupled to the faceplate portion. A forehead member engages the forehead of the patient, and a flexible elongated member is coupled to the extension portion. A drive assembly selectively causes the second end portion of the flexible elongated member to move relative to the extension portion in a first direction. Movement of the flexible elongated member relative to the extension portion in the first direction causes movement of the frame member relative to the forehead member in a second direction transverse to the first direction.



UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

10 January 2013

Date of publication of the revised international search report:

28 February 2013

(15) Information about Correction:

see Notice of 28 February 2013

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2012/052464

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61M16/06
ADD.

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 B29C

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

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

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/074517 A1 (RESMED LTD [AU]; HITCHCOCK ROBIN GARTH [AU]; NG EVA [AU]; CHU VINCENT) 20 July 2006 (2006-07-20)	1-3,9
Y	abstract; figures 8.1, 8.2, 8.3, 8.4, 8.5, 9.3, 11.1 paragraph [00110] paragraph [00111] paragraph [00112] paragraph [00113]	11
Y	----- EP 2 005 986 A2 (RESMED LTD [AU]) 24 December 2008 (2008-12-24)	11
A	abstract; figures 3.1, 19 paragraph [0099] paragraph [0074] paragraph [0100] paragraph [0073] paragraph [0098] ----- -/-	4-8,10

☒ 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 another 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

13 September 2012

Date of mailing of the international search report

22/11/2012

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2012/052464

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 2 005 985 A2 (RESMED LTD [AU]) 24 December 2008 (2008-12-24) the whole document -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2012/052464

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006074517 A1	20-07-2006	AU 2006206044 A1	20-07-2006
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		NZ 569187 A	26-02-2010
		US 2008314390 A1	25-12-2008

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2012/052464

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.:
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:
3. ☐ Claims Nos.:
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:

see additional sheet

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 fees, this Authority did not invite payment of additional fees.
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.:

1-11

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11

Patient interface device with a flexible member for adjusting a forehead member, using a drive assembly to cause a movement of the frame member of the patient interface device relative to the forehead member

2. claims: 12-17

Patient interface device with a flexible member for adjusting a forehead member, and a shaping form structured change the shape of a selected portion of a flexible elongated member.

3. claims: 18-22

Patient interface device with a serrated belt member for adjusting a forehead member, the serrated belt member having a plurality of notches being structured to enable the belt member to bend at the portion of the surface.
