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[Continued on next page]

(54) Title: VENTILATION SYSTEM WITH REMOVABLE PRIMARY DISPLAY

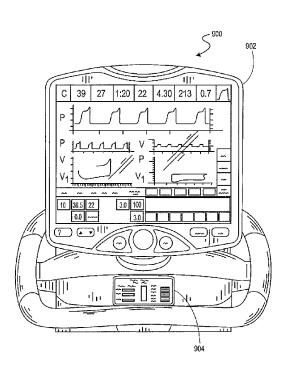


FIG. 9

(57) Abstract: The disclosure describes a novel approach for displaying information on a ventilator system. The disclosure describes a novel respiratory system including a removable primary display and system status display. Further, the disclosure describes a novel method for displaying ventilator information and a novel method for controlling a ventilator system.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. A61M16/00 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 - A61B

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 practical, search terms used)

EPO-Internal

Citation of document, with indication, where appropriate, of the relevant passages WO 2005/013879 A2 (PULMONETIC SYSTEMS INC [US]) 17 February 2005 (2005-02-17) pages 6-12,16,; figures 1,2a,2b,5,6a,6b WO 2006/020862 A2 (WELCH ALLYN INC [US];	Relevant to claim No. 1-13 1-13
[US]) 17 February 2005 (2005-02-17) pages 6-12,16,; figures 1,2a,2b,5,6a,6b WO 2006/020862 A2 (WELCH ALLYN INC [US];	
	1_13
PERKINS DAVID G [US]; LINQUEST DOUGLAS J [US]; W) 23 February 2006 (2006-02-23) paragraphs [0015] - [0021], [0038] - [0042], [0083] - [0088]; figures 1-25 paragraphs [0110] - [0178]	1-13
US 2008/072896 A1 (SETZER BONNY CARLENE [US] ET AL) 27 March 2008 (2008-03-27) paragraphs [0004] - [0009], [0027] - [0097]; figures 1-22	1-13
	paragraphs [0015] - [0021], [0038] - [0042], [0083] - [0088]; figures 1-25 paragraphs [0110] - [0178] US 2008/072896 A1 (SETZER BONNY CARLENE [US] ET AL) 27 March 2008 (2008-03-27) paragraphs [0004] - [0009], [0027] - [0097]; figures 1-22

Further documents are listed in the continuation of Box C.	X See patent family annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document 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	Date of mailing of the international search report	
10 March 2011	16/06/2011	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Loughman, John	

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2010/058850

C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	US 2008/072902 A1 (SETZER BONNY CARLENE [US] ET AL) 27 March 2008 (2008-03-27) paragraphs [0004] - [0008], [0026] - [0096]; figures 1-22	1-13
A	paragraphs [0004] - [0008], [0026] - [0096]; figures 1-22	1-13

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International application No. PCT/US2010/058850

INTERNATIONAL SEARCH REPORT

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:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
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
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.: 1-13
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: 1-13

Ventilation control system GUI

2. claims: 14-17

Status change trigger

3. claims: 18-20

Power supply management

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2010/058850

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005013879 A2	17-02-2005	AU 2004263115 BR PI0413275 CA 2531926 EP 1653905 JP 2007501074 US 2006144396 US 2007000490 US 2006213518 US 2008092892 US 2008092893 US 2008053438	A 10-10-2006 A1 17-02-2005 A2 10-05-2006 T 25-01-2007 A1 06-07-2006 A1 04-01-2007 A1 28-09-2006 A1 24-04-2008 A1 24-04-2008
WO 2006020862 A2	23-02-2006	AU 2005272721 CA 2576869 EP 1786350 EP 2127610 US 2005288571 US 2010324380	A1 23-02-2006 A2 23-05-2007 A2 02-12-2009 A1 29-12-2005
US 2008072896 A1	27-03-2008	WO 2008039726	A2 03-04-2008
US 2008072902 A1	27-03-2008	WO 2008039703	A2 03-04-2008
WO 2007117716 A2	18-10-2007		A 24-06-2009 A1 07-01-2009 A2 14-01-2009 T 17-09-2009 T 17-09-2009 A1 06-12-2007 A1 06-12-2007