Abstract: A system that determines the volume of oxygen taken by the lungs comprises a ventilation that is connected to a spirometric device (44) that contains oxygen. The oxygen absorbed by the lungs from the circuit is replaced by an equivalent amount of oxygen from the device. The volume of oxygen that leaves the device is measured to indicate the volume of oxygen taken by the lungs. A source of make-up oxygen (16) is connected to the circuit and the flow of make-up oxygen is adjusted as necessary to maintain a constant volume of oxygen in the device. The volume of make-up oxygen is measured and serves as an indication of the amount of oxygen taken by the lungs. A valve (28) is used to isolate the device from the circuit during all but a part of the ventilation cycle to prevent substantial pressure or movement excursions within the device.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7)  : A61M 15/00, 16/00; A62B 7/00, 9/02, 19/00, 23/02
   US CL.  : 128/204.18, 204.22, 204.28, 205.12, 205.13, 205.14, 205.17, 205.23, 205.24, 205.27, 205.28, 204.21
   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)
   U.S. : Please See Continuation Sheet

   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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

   Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.
   Y US 4,991,576 A (Henkin et al.) 12 February 1991 (12.02.1991), See figures 2, 3 6A-6H; column 5, lines 30-40; column 6, lines 35-45; column 12, lines 5-15. 1-3, 14, 16, 17, 21 and 22
   Y US 2,180,057 A (Jones) 14 November 1939 (14.11.1939), See figure 1-5. 10, 18 and 19
   Y US 5,431,154 A (Seigel et al.) 11 July 1995 (11.07.1995), See figures 1-3. 11-13, 19 and 20
   Y US 5,398,675 A (Henkin et al.) 21 March 1995 (21.03.1995), See figures 1 and 2. 4-9 and 15

   * 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 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

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

   Date of the actual completion of the international search 07 June 2005 (07.06.2005)
   Date of mailing of the international search report 29 SEP 2005

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   Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of Item 4 of the first sheet:
The title does not meet the requirements of PCT Rule 4.3. The title must be short and precise, preferably 2 to 7 words. So the examiner has renamed the titled to:

VENTILATION CIRCUIT WITH CO2 ABSORPTION AND SPIROMETRY MEASUREMENT

Continuation of B. FIELDS SEARCHED Item 1:
128/204.18, 204.22, 204.28, 205.12, 205.13, 205.14, 205.17, 205.23, 205.24, 205.27, 205.28, 204.21, 203.28, 201.25, 203.12, 200.24, 912, 914