



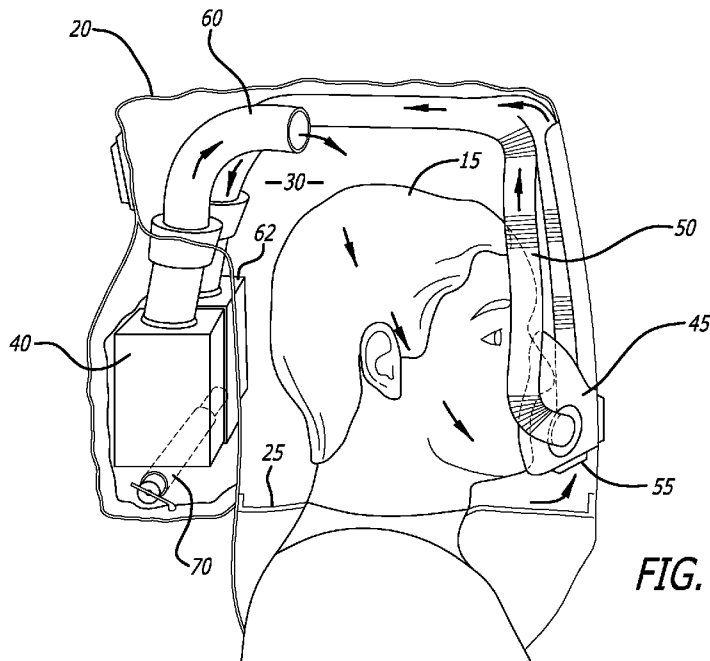
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[Continued on nextpage]

(54) **Title:** AIRCRAFT CREW MEMBER PROTECTIVE BREATHING APPARATUS



**FIG. 2**

(57) **Abstract:** A self-contained breathing device for use in fighting fires comprising a hood for covering a wearer's head, a membrane for sealing the hood to create a breathing chamber inside the hood, and a source of oxygen disposed inside the hood. The source of oxygen is connected to the user by a conduit inside of the hood, and another conduit directs user-exhaled carbon dioxide to the source of oxygen. The breathing device includes a visual indicator inside of the hood that reacts to the presence of a gas within the hood and providing visual feedback to the user based on a quantity of said gas present in the hood.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
**INV. A62B7/08 A62B18/04**  
 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)  
**A62B**

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	EP 0 535 385 A1 (DRAEGERWERK AG [DE] ) 7 April 1993 (1993-04-07) column 4, line 30 - column 5, line 16; figure 1 -----	1-20
X	US 5 191 317 A (TOTH DOUGLAS J [US] ET AL) 2 March 1993 (1993-03-02) column 5, lines 1-21 column 6, lines 12-30; figures 1,5 -----	1-20
X	DE 198 32 000 C1 (DRAEGER AEROSPACE GMBH [DE] ) 4 November 1999 (1999-11-04) column 2, lines 1-62; figures 1,2 -----	1-20

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	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search <b>17 October 2014</b>	Date of mailing of the international search report <b>23/10/2014</b>
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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 <b>Cal ămar, George</b>
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2013/049759
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