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71 Applicant: **RACAL SAFETY LIMITED**
No. 1 Building Beresford Avenue
Wembley Middlesex HA0 1QJ(GB)

72 Inventor: **Odell, Raymond**
184 Mutton Lane
Potters Bar Hertfordshire(GB)

72 Inventor: **O'Connor, Richard Kevin**
28 Park Hill
London W.5(GB)

72 Inventor: **Edward, David Brian**
109 Elgin Avenue
Harrow Middlesex(GB)

74 Representative: **Harrison, Philippa Dinah et al,**
A. A. THORNTON & CO Northumberland House 303-306
High Holborn
London WC1V 7LE(GB)

54 **Improvements in and relating to respirators.**

57 The power assisted positive pressure respirator for use in contaminated atmospheres comprises a facepiece (1) having an inlet (3) connected to a pump unit (5) for supplying air to the facepiece which has been filtered by filter means (11) connected to the pump unit inlet. The facepiece is also provided with an outlet provided with a one-way valve (2) which is biased to its closed position and is openable when a predetermined pressure above atmospheric pressure is established within the facepiece.

To maximise use of the filter means (11) a one-way inlet valve (13) is provided intermediate the pump unit (5) and the facepiece (1) conveniently at the inlet to the facepiece, which is closed during exhalation by the wearer to thereby cause the pump to be placed in a condition in which, although it continues to operate, no or substantially no air is moved thereby, so that during this period, no or substantially no air is drawn through the filter means (11).

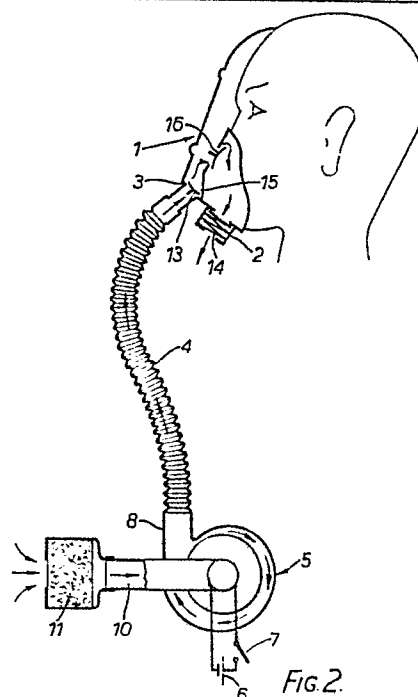


FIG. 2.



European Patent
Office

EUROPEAN SEARCH REPORT

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EP 83 30 2484

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
X,A	FR-A- 785 223 (CELA HOLDING S.A.) * Page 1, line 56 - page 2, line 4; page 3, lines 35-67; figures 1, 2, 5, 6 * ---	1-9	A 62 B 7/10
X,A	CH-A- 202 373 (BEZ et al.) * Page 2, right-hand column, line 17 - page 3, left-hand column, line 2 * ---	1,9	
A	FR-A-1 037 477 (PERROT) * Page 2, left-hand column, lines 15-25 * ---	1	
A	FR-A-1 320 829 (HOUILLERES DU BASSIN DU NORD ET DU PAS-DE-CALAIS) * Figures 5, 6 * ---	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
A	GB-A-2 058 577 (RACAL SAFETY LTD.) ---		A 62 B 7/00 A 62 B 18/00
A	GB-A-2 032 284 (RACAL SAFETY LTD.) ---		
P,A	EP-A-0 066 451 (RACAL SAFETY LTD.) -----		
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 02-02-1984	Examiner KANAL P K
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			