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(54) Title: MINIATURIZED WEARABLE OXYGEN CONCENTRATOR

(57) Abstract: A component gas concentrator includes an air compressor, an air-tight first container containing a molecular sieve bed, the first container in fluid communication with the compressor through a first gas conduit, and an air-tight second container in fluid communication with the first container through a second gas conduit. A gas flow controller such as PLC controls actuation of valves mounted to the gas conduits.

**INTERNATIONAL SEARCH REPORT**

International Application No

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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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)  
 IPC 7 B01D A61M

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, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 871 564 A (MCCOMBS) 16 February 1999 (1999-02-16)  column 3, line 40 -column 6, line 14 ---	1-13, 18-33, 38-40
X	US 5 531 807 A (MCCOMBS) 2 July 1996 (1996-07-02)  column 4, line 14 -column 6, line 37 ---	1-13, 18-33, 38-40
A	US 5 850 833 A (KOTLIAR) 22 December 1998 (1998-12-22) column 8, line 56 -column 10, line 4 ---	1,14-17, 21,34-37
A	US 6 003 744 A (CULJAK) 21 December 1999 (1999-12-21) column 2, line 354 -column 41 ---	1,14-17, 21,34-37
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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 400 713 A (FINAN) 10 September 1968 (1968-09-10) column 3, line 68 -column 8, line 34 -----	1, 14-17, 21, 34-37

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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