

## Title (en)

Portable device for acquisition of oxygen autonomy

## Title (de)

Tragbare Vorrichtung zue Bestimmung der Sauerstoffautonomie

## Title (fr)

Dispositif portable d'acquisition d'une valeur d'autonomie d'oxygène.

## Publication

**EP 1065432 A1 20010103 (FR)**

## Application

**EP 00401848 A 20000628**

## Priority

FR 9908247 A 19990628

## Abstract (en)

The device does not depend on a connection to the cylinder, but provides a calculated value for the quantity of gas remaining on the basis of measured parameters. The portable device provides an independent indication of the amount of oxygen remaining in a gas cylinder, whilst the external pressure is constant. It comprises a support (1) carrying at least one table of values, addressed by a cursor as a function of the pressure within the gas cylinder, and a fixed flow rate. A display window (3) shows directly the quantity of oxygen remaining within the cylinder as a function of these two values. The device may operate by use of a slide-rule type device whereby the cursor points to specific figures within a table. Alternatively the device may be an electronic processor with a memory, in which case the pressure and flow rate parameters may be entered via a keypad, and the resulting quantity of oxygen displayed on an electronic display panel.

## Abstract (fr)

L'invention concerne un dispositif portable d'acquisition d'une valeur d'autonomie d'oxygène contenu dans une bouteille, la pression extérieure étant constante, caractérisé en ce que le dispositif comprend un support (1) portant au moins une table de valeurs adressée par un curseur (2) en fonction de la pression intérieure P de la bouteille et d'un débit D fixé, et une fenêtre de lecture (3) indiquant directement la valeur d'autonomie d'oxygène de la bouteille pour cette pression intérieure P et ce débit D donnés, et en ce que ledit dispositif est indépendant de la bouteille.

<IMAGE>

## IPC 1-7

**F17C 13/02**

## IPC 8 full level

**F17C 13/02** (2006.01)

## CPC (source: EP)

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## Citation (search report)

- [X] US 4876903 A 19891031 - BUDINGER WILLIAM D [US]
- [X] GB 2311015 A 19970917 - COHEN ELLIS B [GB]
- [A] US 4835371 A 19890530 - ROGERS RAYMOND E [US]
- [A] US 3670575 A 19720620 - EMERICK BRUCE D
- [A] US 3784093 A 19740108 - BENNETT K
- [A] FR 2414852 A7 19790810 - BINA ALIDO [IT]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03 27 February 1998 (1998-02-27)

## Cited by

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**EP 1065432 A1 20010103**; **EP 1065432 B1 20050316**; AT E291198 T1 20050415; DE 60018641 D1 20050421; FR 2795547 A1 20001229; FR 2795547 B1 20020201

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