

Title (en)

Regulation method and device for a respirator

Title (de)

Regelungsverfahren und -gerät für ein Atemgerät

Title (fr)

Procédé et dispositif de régulation pour appareil respiratoire

Publication

EP 1579890 A1 20050928 (FR)

Application

EP 05014132 A 20021029

Priority

- EP 02793196 A 20021029
- FR 0114452 A 20011108

Abstract (en)

The method involves measuring the ambient pressure and the instantaneous inhaled breathe-inflow rate in terms of ambient volume in real time. The minimum oxygen content in the complete inhalation phase is computed based on the pressure in order to comply with the respiratory standards. The instantaneous flow rate of additional oxygen is controlled so as to satisfy the standard requirements within a safety margin. An independent claim is also included for a demand and dilution mask regulator.

Abstract (fr)

L'invention concerne un dispositif de régulation d'oxygène pour un porteur dans un avion civil ou militaire, et comprenant un circuit d'amenée d'oxygène reliant une entrée d'oxygène sous pression provenant d'une source, à une admission d'un masque respiratoire par l'intermédiaire d'une vanne de commande directe de débit (24, 24a), et un circuit électronique de commande (62) apte à envoyer une consigne électrique à ladite vanne de commande. <IMAGE>

IPC 1-7

A62B 7/14

IPC 8 full level

A62B 7/14 (2006.01)

CPC (source: EP US)

A62B 7/14 (2013.01 - EP US)

Citation (applicant)

- FR 2778575 A1 19991119 - INTERTECHNIQUE SA [FR]
- FR 2455765 A1 19801128 - INTERTECHNIQUE SA
- US 4336590 A 19820622 - JACQ GEORGES, et al

Citation (search report)

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- [X] US 4336590 A 19820622 - JACQ GEORGES, et al
- [A] GB 949221 A 19640212 - KIDDE WALTER CO LTD
- [A] WO 9706844 A1 19970227 - UNIV FLORIDA [US]
- [A] EP 0288903 A2 19881102 - MINE SAFETY APPLIANCES CO [US]
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US 2003084901 A1 20030508; US 6789539 B2 20040914; CA 2460462 A1 20030515; CA 2460462 C 20080729; DE 60205033 D1 20050818; DE 60205033 T2 20060420; EP 1441812 A1 20040804; EP 1441812 B1 20050713; EP 1579890 A1 20050928; FR 2831825 A1 20030509; FR 2831825 B1 20040130; WO 03039679 A1 20030515

DOCDB simple family (application)

US 25694302 A 20020927; CA 2460462 A 20021029; DE 60205033 T 20021029; EP 02793196 A 20021029; EP 05014132 A 20021029; FR 0114452 A 20011108; FR 0203712 W 20021029