

Title (en)

A BREATHING SYSTEM FOR SMOKE DIVING AND THE LIKE

Title (de)

ATEMSYSTEM FÜR ANWENDUNG IN RAUCH, WASSER UND DERGLEICHEN

Title (fr)

SYSTEME RESPIRATOIRE POUR LA PENETRATION DANS LA FUMEE OU DANS UN ENVIRONNEMENT SIMILAIRE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9115265A1] A closed or semi-closed breathing system for smoke diving and the like includes a pneumatically controlled breathing bag (1) communicating in a circulation (4, 5, 6) with a breathing mouthpiece or breathing mask (2) for a user and with an absorption means (3) for exhaled CO₂, a pneumatic actuator (9) arranged for alternating expansion and contraction of the breathing bag (1) in accordance with the breathing pattern of the user, and a pressurized gas source (11) coupled to the breathing bag (1) to supplement the breathing gas therein. The system includes a mode regulator (10) arranged to control the actuator's actuation of the breathing bag (1) while simultaneously maintaining an overpressure in the breathing mask (2) in relation to the surroundings, and a dosing means (13) for the supply of a metered gas quantity to the breathing bag (1) in dependence on its degree of filling.

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