

Title (en)
AUTOMATIC UNDERWATER BREATHING MEMBRANE WITH INTEGRATED MANUAL RECHARGE

Title (de)
UNABHÄNGIGES UNTERWASSER- ATEMGERÄT MIT INTEGRIERTER, MANUELLER BEFÜLLUNG

Title (fr)
AUTO-RESPIRATEUR SUBAQUATIQUE A RECHARGEMENT MANUEL INTEGRE

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Application
EP 01929760 A 20010427

Priority
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Abstract (en)
[origin: WO0183293A1] The invention concerns an individual appliance for underwater diving with self-contained recharge. Said appliance consists of a bottle (1) pressurised with air by a manual pump integrated in the bottle (1) or a charging valve (8). Said appliance comprises a maintaining assembly (32a, 32b) adapted on the diver's back. The pressurised air in the bottle (1) is transmitted to the diver via a flexible hose (10) and a regulator (12) to a stage which adjusts the suction pressure to the ambient pressure of water. The pump integrated to the bottle (1) is a high performance pump enabling to attain an inflating capacity of several tens of bars without any extra effort. Said hand pump with two chambers (18, 19) significantly enhances the relationship between the pressure, air flow, and the force exerted on the pump handle (2) compared to a standard single-body pump (37).

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Citation (search report)
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