

Title (en)

UNDERWATER DIVING METHOD AND SYSTEM COMPRISING BREATHING GAS CONTAINING HYDROGEN

Title (de)

VERFAHREN UND UNTERWASSERTAUCHVORRICHTUNG MIT HYDROGEN ALS ATMUNGSGAS

Title (fr)

PROCEDE ET INSTALLATION DE PLONGEE SOUS-MARINE EN MELANGE RESPIRATOIRE A L'HYDROGNE

Publication

EP 0773880 B1 19981028 (FR)

Application

EP 95927785 A 19950811

Priority

- FR 9501083 W 19950811
- FR 9410538 A 19940826

Abstract (en)

[origin: WO9606771A1] The technical field of the invention relates to medium depth and deep sea underwater diving for industrial applications. The invention concerns a method and a system for the pressurization and decompression of a diver (8) and for providing him with breathing gas containing hydrogen. According to the present invention, the person is pressurized to an absolute pressure P1 (14) of at least 0.45 Mpa with a first type of breathing gas which does not contain hydrogen; the person (8) is supplied, based on at least this pressure P1 (14) with a second type of breathing gas at pressure P according to the diving depth p. The second breathing gas is of the hydrexlo type and contains hydrogen at a minimum partial pressure of 0.33 Mpa, less than 4 volume percent oxygen, helium at a pressure over 0.1 Mpa and other gases such as nitrogen at a pressure below 0.09 Mpa; the hydrexlo mixture supply so obtained at pressure P2 (18) at the desired diving depth p2 is maintained.

IPC 1-7

B63C 11/18

IPC 8 full level

B63C 11/18 (2006.01)

CPC (source: EP US)

B63C 11/18 (2013.01 - EP US)

Designated contracting state (EPC)

GB

DOCDB simple family (publication)

WO 9606771 A1 19960307; AU 3180295 A 19960322; BR 9508682 A 19980106; EP 0773880 A1 19970521; EP 0773880 B1 19981028; FR 2723909 A1 19960301; FR 2723909 B1 19970221; US 6138670 A 20001031

DOCDB simple family (application)

FR 9501083 W 19950811; AU 3180295 A 19950811; BR 9508682 A 19950811; EP 95927785 A 19950811; FR 9410538 A 19940826; US 79385597 A 19970219