

Title (en)
Self-contained breathing apparatus and control system therefor

Title (de)
Autonome Beatmungsvorrichtung und Steuerungssystem dafür

Title (fr)
Appareil respiratoire autonome et son système de commande

Publication
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Application
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Priority
GB 0904682 A 20090319

Abstract (en)
The present invention provides a self contained breathing apparatus comprising: a breathing circuit including a carbon dioxide scrubber and a gas supply valve for the addition of oxygen or a mixture of oxygen and other gas(es) to the breathing circuit from a gas supply; a mouthpiece valve (12) for the inhalation and exhalation of breathable gas from and to the said breathing circuit; an electronic controller operably connected to at least one oxygen sensor for sensing oxygen partial pressure in the breathing circuit and operably connected to the said gas supply valve for the addition of oxygen, or a mixture of oxygen and other gas(es), to the breathing circuit from said gas supply, the said controller operably controlling the said gas supply valve to maintain at least a minimum pre-determined oxygen partial pressure in the breathing circuit; the said controller having switch means (46, 68, 70, 74) operably connected to and/or associated with a breathing circuit valve such that the action of switching on the said breathing circuit valve (12) for the delivery of breathable gas to the said mouthpiece (35) switches on the electronic controller for operational control such that the electronic controller is switched on at all times when the breathing circuit valve is switched on and capable of delivering breathable gas to the user.

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Citation (search report)

- [I] WO 2005107390 A2 20051117 - HELIOX TECHNOLOGIES INC [US], et al
- [A] EP 0800844 A2 19971015 - INTERSPIRO AB [SE]
- [AD] GB 2340760 A 20000301 - PARKER DIVING LIMITED [GB]
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