

Title (en)

PORTABLE ELECTROCHEMICAL OXYGEN GENERATOR

Title (de)

PORATBLER ELEKTROCHEMISCHER SAUERSTOFFGENERATOR

Title (fr)

GENERATEUR D'OXYGENE ELECTROCHIMIQUE PORTABLE

Publication

EP 1368512 A2 20031210 (DE)

Application

EP 01988790 A 20011026

Priority

- DE 0104083 W 20011026
- DE 10053546 A 20001027

Abstract (en)

[origin: DE10053546A1] The invention relates to a portable electrochemical oxygen generator, comprising: a proton-conducting polymer electrolyte membrane (PEM) (1); a water-filled, porous anode (2), with an anode chamber (6); a porous air cathode (3), with a cathode chamber (5), whereby the PEM, anode and cathode form a PEM-cell; a direct current source (4); a cathode gas condensate separator (7), connected to the anode chamber by means of a condensate line and a pump (8), to form a water-cooling circuit; a reservoir with reducing valve (9) for the oxygen generated and a controller/regulator unit (11), for the control/regulation of the oxygen generation, the air feed and the temperature of the PEM-cell.

IPC 1-7

C25B 1/02; C25B 1/10

IPC 8 full level

C25B 1/02 (2006.01); **C25B 1/10** (2006.01)

CPC (source: EP US)

C25B 1/02 (2013.01 - EP US); **C25B 1/04** (2013.01 - EP US); **C25B 9/73** (2021.01 - EP US); **Y02E 60/36** (2013.01 - EP US)

Citation (search report)

See references of WO 0234970A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 10053546 A1 20020502; EP 1368512 A2 20031210; US 2004101723 A1 20040527; WO 0234970 A2 20020502; WO 0234970 A3 20030814

DOCDB simple family (application)

DE 10053546 A 20001027; DE 0104083 W 20011026; EP 01988790 A 20011026; US 41531103 A 20031205