

Title (en)
OXYGEN-PRODUCING RESPIRATORY PROTECTION DEVICE

Title (de)
SAUERSTOFF ERZEUGENDES ATEMSCHUTZGERÄT

Title (fr)
APPAREIL DE PROTECTION RESPIRATOIRE FILTRANT PRODUISANT DE L'OXYGENE

Publication
EP 1838394 A1 20071003 (DE)

Application
EP 06722457 A 20060119

Priority
• DE 2006000072 W 20060119
• DE 102005003176 A 20050119

Abstract (en)
[origin: US2008276934A1] In a breathing apparatus the chemical cartridge through which respiratory air flows to generate oxygen is divided into a plurality of air treatment chambers (15 to 18) by means of retaining grids. An impact-damping means (21 a , 21 b) consisting of a multilayer fine wire mesh, which abuts flat against the relevant front cover is located in the external air treatment chambers (15, 18) whilst provided in the middle air treatment chambers (16, 17) is a damping element (24, 25) consisting of a multilayer fine-wire mesh folded in a zigzag fashion, having fold edges running parallel and at a distance from the outer wall of the chemical cartridge (2), one edge thereof running in a zigzag fashion is fixed to a wire grid (26, 27). The damping elements of each adjacent air treatment chambers are not in alignment. Potassium hyperoxide granules (22) for oxygen generation are located in the air treatment chambers. One air treatment chamber (18) can be filled with lithium hydroxide tablets (23) for binding excess carbon dioxide. The apparatus is capable of functioning immediately with high performance in an active case of application even after many years of non-active use under high mechanical loading.

IPC 8 full level
A62B 7/08 (2006.01)

CPC (source: EP US)
A62B 7/08 (2013.01 - EP US)

Citation (search report)
See references of WO 2006076895A1

Cited by
US11813486B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2008276934 A1 20081113; US 8230854 B2 20120731; AT E471184 T1 20100715; AU 2006207719 A1 20060727;
AU 2006207719 B2 20101111; CN 101107046 A 20080116; CN 101107046 B 20110817; DE 102005003176 B3 20060720;
DE 502006007225 D1 20100729; EP 1838394 A1 20071003; EP 1838394 B1 20100616; ES 2347818 T3 20101104; PL 1838394 T3 20110131;
WO 2006076895 A1 20060727; ZA 200705527 B 20080430

DOCDB simple family (application)
US 79570106 A 20060119; AT 06722457 T 20060119; AU 2006207719 A 20060119; CN 200680002657 A 20060119;
DE 102005003176 A 20050119; DE 2006000072 W 20060119; DE 502006007225 T 20060119; EP 06722457 A 20060119;
ES 06722457 T 20060119; PL 06722457 T 20060119; ZA 200705527 A 20070706