

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  
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• 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)  
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Citation (search report)  
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