

Title (en)  
REBREATHER SYSTEM

Title (de)  
KREISLAUFATEMGERÄT

Title (fr)  
SYSTÈME DE RÉINHALATION

Publication  
**EP 3459599 B1 20231108 (EN)**

Application  
**EP 18195349 A 20180919**

Priority  
IT 201700106726 A 20170925

Abstract (en)  
[origin: EP3459599A1] A semi-closed rebreather with two breathing bags (20, 40) and a canister(30) removing carbon dioxide from the exhaled breath, the rebreather using a "normal open" (NO) type of solenoid valve (80) to control the flow of replenishment gas supplied to the rebreather circuit by at least one replenishment gas cylinder (50), i.e. that, in the absence of energy, takes the open condition thereby allowing a replenishment gas flow with a maximum flow rate predetermined during the initial design or adjustment step.

IPC 8 full level  
**A62B 7/02** (2006.01); **A62B 7/08** (2006.01); **A62B 9/00** (2006.01); **A62B 9/02** (2006.01); **B63C 11/24** (2006.01)

CPC (source: CN EP RU)  
**A62B 7/02** (2013.01 - EP RU); **B63C 11/24** (2013.01 - CN); **A62B 9/006** (2013.01 - EP); **A62B 9/02** (2013.01 - EP); **B63C 11/24** (2013.01 - EP)

Citation (examination)  
• US 6712071 B1 20040330 - PARKER MARTIN JOHN [GB]  
• US 5924418 A 19990720 - LEWIS JOHN E [US]

Cited by  
CN110576952A; CN111359068A; CN113952564A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3459599 A1 20190327**; **EP 3459599 B1 20231108**; **EP 3459599 C0 20231108**; CA 3017877 A1 20190325; CN 109606588 A 20190412; IT 201700106726 A1 20190325; RU 2018133490 A 20200323; RU 2018133490 A3 20200611; RU 2736304 C2 20201113

DOCDB simple family (application)  
**EP 18195349 A 20180919**; CA 3017877 A 20180919; CN 201811106689 A 20180921; IT 201700106726 A 20170925; RU 2018133490 A 20180921