

Title (en)

Backpack comprising a portable device for rapidly inflating an avalanche air bag

Title (de)

Rucksack mit einer tragbaren Vorrichtung zum schnellen Aufblasen eines Lawinen-Airbags

Title (fr)

Sac à dos, comportant un dispositif portable de gonflage rapide d'un airbag de protection contre les avalanches

Publication

**EP 2548619 B1 20190515 (FR)**

Application

**EP 12176665 A 20120717**

Priority

CH 12122011 A 20110720

Abstract (en)

[origin: EP2548619A2] The device has an inlet to be connected to a cartridge (2) of compressed gas i.e. carbon dioxide at high pressure, for allowing the gas to expand into an air intake chamber (32). The intake chamber has an opening (6) allowing atmospheric air to be admitted and an outlet (28) to be connected to an inflatable bag. An intermediate distribution chamber is arranged between the inlet and the intake chamber for connecting the inlet to the intake chamber. Ejection holes are formed to open into a lateral wall of the intake chamber to connect the intake chamber to the intermediate distribution chamber.

IPC 8 full level

**C06D 5/02** (2006.01); **A62B 33/00** (2006.01); **A63B 29/02** (2006.01); **B63C 9/00** (2006.01); **F17C 7/00** (2006.01)

CPC (source: EP US)

**A62B 33/00** (2013.01 - EP US); **C06D 5/02** (2013.01 - US); **F17C 7/00** (2013.01 - US); **A63B 29/021** (2013.01 - EP US); **B63C 2009/007** (2013.01 - EP US)

Citation (examination)

- US 2005087559 A1 20050428 - SMITH MIKE L [US], et al
- US 2006037643 A1 20060223 - RAMSEY J W [US], et al

Citation (opposition)

Opponent : NIC IMPEX

- DE 3237060 A1 19840412 - ASCHAUER AUSSSENWERBUNG [DE]
- US 6220909 B1 20010424 - ASCHAUER PETER [DE], et al
- US 7018257 B2 20060328 - COURTNEY WILLIAM L [US]
- MOFID GORJIBANDPY ET AL.: "Computational Investigation of Air-Gas Venturi Mixer for Powered Bi-Fuel Diesel Engine", INTERNATIONAL JOURNAL OF MECHANICS AND MECHATRONICS ENGINEERING, vol. 4, no. II, 2010, XP055675596
- YUSAF T. ET AL., DEVELOPMENT OF A 3D CFD MODEL TO INVESTIGATE THE EFFECT OF THE MIXING QUALITY ON THE CNG-DIESEL ENGINE PERFORMANCE, January 2000 (2000-01-01), XP055675606

Cited by

FR3039074A1; US10626887B2; WO2014131565A3; WO2017013327A1; WO2016189242A1; US10617895B2; WO2014131565A2; US9814938B2; EP3812011A1; WO2021078440A1; EP4197602A1

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 2548619 A2 20130123; EP 2548619 A3 20150318; EP 2548619 B1 20190515**; CA 2783600 A1 20130120; CA 2783600 C 20190716; CH 705330 A2 20130131; US 2013019994 A1 20130124; US 9290420 B2 20160322

DOCDB simple family (application)

**EP 12176665 A 20120717**; CA 2783600 A 20120719; CH 12122011 A 20110720; US 201213553075 A 20120719