

Title (en)

LARGE VOLUME PUMP FOR INFLATING INFLATABLE ELEMENTS

Title (de)

GROSSE VOLUMENPUMPE ZUM AUFBLASEN VON AUFBLASBAREN ELEMENTEN

Title (fr)

POMPE GRAND VOLUME POUR LE GONFLAGE D'ÉLÉMENTS GONFLABLES

Publication

**EP 3923763 B1 20240501 (FR)**

Application

**EP 20709705 A 20200206**

Priority

- FR 1901482 A 20190214
- IB 2020050966 W 20200206

Abstract (en)

[origin: WO2020165704A1] The invention concerns a pump for inflating a large-volume inflatable object, the pump being formed of a sealed bag (10) made of flexible material in which the inflatable object can be stored, the bag comprising a plurality of elements (12, 13) such as valves and/or one-way valves arranged to allow an inspiration of air into the bag via an air inlet, without the need to open the bag, then an expiration of the air contained in the bag via an air outlet that is different from the air inlet, the bag also comprising, on a circumferential wall of the bag, a shaping device for maintaining a maximum volume bag shape. According to the invention, the pump is characterised in that the shaping device comprises a plurality of hoops (21 to 25) fastened to the wall of the bag so that the hoops extend in planes substantially perpendicular to the axis of the cylinder formed by the bag when the bag is filled. The invention can be used for transporting a plurality of articles and for inflating large-volume objects such as a pneumatic boat.

IPC 8 full level

**A45C 13/00** (2006.01); **A45C 13/36** (2006.01); **A45F 3/00** (2006.01); **A45F 3/04** (2006.01); **A45F 4/02** (2006.01); **F04B 33/00** (2006.01)

CPC (source: EP)

**A45C 13/008** (2013.01); **A45C 13/36** (2013.01); **A45F 3/04** (2013.01); **A45F 4/02** (2013.01); **F04B 33/00** (2013.01); **A45F 2003/003** (2013.01)

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)

**WO 2020165704 A1 20200820**; EP 3923763 A1 20211222; EP 3923763 B1 20240501; FR 3092736 A1 20200821; FR 3092736 B1 20211022

DOCDB simple family (application)

**IB 2020050966 W 20200206**; EP 20709705 A 20200206; FR 1901482 A 20190214