

Title (en)  
DIVING GEAR

Title (de)  
TAUCHGERÄT

Title (fr)  
APPAREIL DE PLONGÉE

Publication  
**EP 3645383 A1 20200506 (DE)**

Application  
**EP 17754262 A 20170630**

Priority  
EP 2017066262 W 20170630

Abstract (en)  
[origin: WO2019001725A1] Diving gear (1) comprising an air pump (2) having a rigid housing (3) with an interior space (4) and an opening (8) which is closed by a bag-like flexible part (11) in order to form a variable pump volume delimited by the housing (3) and the flexible part (11), wherein the air pump (2) is configured in such a manner that, in the event of a positive pressure caused by surrounding water (22), the flexible part (11) is pressed into the interior space (4), thus reducing the pump volume, and, at least in sections, lies against an inner wall (13) of the housing (3) in a contact portion (12) of the interior space (4), wherein the flexible part (11) can be pulled out of the interior space (4) counter to the positive pressure by muscle force of a diver (17), thus increasing the pump volume. According to the invention, an air duct (20) is provided which is configured in such a manner that, during the suction, the air can flow from the region (10) of an end (7) of the interior space in the direction of a start (6) of the interior space at least into a region (21) of maximum height (18), preferably into the region (9) of the start (6) of the interior space, and into the interior space (4).

IPC 8 full level  
**B63C 11/20** (2006.01)

CPC (source: EP US)  
**B63C 11/18** (2013.01 - US); **B63C 11/20** (2013.01 - EP US); **B63C 11/205** (2013.01 - EP); **B63C 11/207** (2013.01 - EP US);  
**B63C 11/22** (2013.01 - US)

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2019001725 A1 20190103**; EP 3645383 A1 20200506; EP 3645383 B1 20210526; US 11286025 B2 20220329;  
US 2020164954 A1 20200528

DOCDB simple family (application)  
**EP 2017066262 W 20170630**; EP 17754262 A 20170630; US 201716626946 A 20170630