Title (en)
SWIMMING AND DIVING AID

Title (de)
SCHWIMM- UND TAUCHHILFE

Title (fr)
ENGIN AUXILIAIRE DE NATATION ET DE PLONGÉE

Publication
EP 3245126 B1 20190710 (DE)

Application
EP 16700552 A 20160112

Priority
• DE 102015000259 A 20150116
• EP 2016050432 W 20160112

Abstract (en)
[origin: CA2973631A1] The invention relates to a swimming and diving aid with a vehicle hull on which a user lies or stands, with a flow channel which is arranged in the vehicle hull and which accommodates a propeller driven by an electric motor with radially outwardly directed propeller blades mounted on a base part of the propeller, wherein the electric motor has a rigidly arranged motor stator and a rotating rotor, which is spatially assigned to the motor stator. Provision is made that the rotor of the electric motor is coupled directly or indirectly to at least one outer end of at least one propeller blade, and that the motor stator is arranged circumferentially around the rotor at least in sections. The motor arrangement permits a dynamic drive of the swimming and diving aid.

IPC 8 full level
B63H 11/08 (2006.01); **B63H 21/17** (2006.01); **B63H 23/00** (2006.01); **B63H 23/24** (2006.01)

CPC (source: CN EP IL KR RU US)
B63H 11/08 (2013.01 - CN EP IL KR RU US); **B63H 21/17** (2013.01 - CN EP IL KR US); **B63H 23/00** (2013.01 - CN EP IL US); **B63H 23/24** (2013.01 - CN EP IL KR US); B63H 2023/005 (2013.01 - CN EP IL KR 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)
DE 102015000259 A1 20160721; **DE 102015000259 B4 20161229**; AU 2016208152 A1 20170817; AU 2016208152 B2 20191212; BR 112017015226 A2 20180109; BR 112017015226 B1 20230404; CA 2973631 A1 20160721; CN 107406134 A 20171128; CN 107406134 B 20191001; EP 3245126 A1 20171122; EP 3245126 B1 20190710; ES 2747859 T3 20200311; HK 1244761 A1 20180817; IL 253484 A0 20170928; IL 253484 B 20210531; JP 2018502012 A 20180125; JP 6678677 B2 20200408; KR 102446309 B1 20220921; KR 20170117423 A 20171023; MY 186629 A 20210731; RU 2017128219 A 20190218; RU 2017128219 A3 20190218; RU 2691537 C2 20190614; US 10227122 B2 20190312; US 2018134358 A1 20180517; WO 2016113237 A1 20160721

DOCDB simple family (application)
DE 102015000259 A 20150116; AU 2016208152 A 20160112; BR 112017015226 A 20160112; CA 2973631 A 20160112; CN 201680015043 A 20160112; EP 16700552 A 20160112; EP 2016050432 W 20160112; ES 16700552 T 20160112; HK 18104266 A 20180328; IL 25348417 A 20170713; JP 2017537481 A 20160112; KR 20177022733 A 20160112; MY PI2017702520 A 20160112; RU 2017128219 A 20160112; US 201615541227 A 20160112