

Title (en)  
SURFING WAVE-MAKING APPARATUS AND SURFING PRACTICE FACILITY EQUIPPED WITH SAME

Title (de)  
SURFWELLENERZEUGUNGSVORRICHTUNG UND SURFÜBUNGSANLAGE DAMIT

Title (fr)  
APPAREIL DE PRODUCTION DE VAGUES POUR PRATIQUER LE SURF ET INSTALLATION POUR LA PRATIQUE DU SURF ÉQUIPÉE DUDIT APPAREIL

Publication  
**EP 3885011 A4 20211201 (EN)**

Application  
**EP 18940515 A 20181119**

Priority  
JP 2018042669 W 20181119

Abstract (en)  
[origin: EP3885011A1] Provided is a surfing wave-making apparatus that is capable of making the so-called tubular plunging breakers which are suitable for surfing, and which have continuous crests ranging from a collapse stage to a stage immediately before collapse. The present invention comprises: a container body 110 that is open at the front thereof, is equipped with at least a bottom part, and is capable of trapping water in part of the inner space thereof; and a moving track 120 that allows the container body 110 to travel thereon and that is equipped with a slope surface track 121 and an in-pool track 123. The container body 110 falls along the slope surface track 121, plunges into water of the pool as a result of free-fall motion, and travels on the in-pool track 123 in the container body 110 decelerates, only the water held inside is thrust forward in the form of an isolated traveling wave 202 so as to produce a plunging breaker suitable for surfing.

IPC 8 full level  
**A63C 19/10** (2006.01); **A63B 69/00** (2006.01); **E04H 4/00** (2006.01)

CPC (source: EP KR US)  
**A63B 69/0093** (2013.01 - KR US); **A63C 19/10** (2013.01 - EP KR); **A63G 31/007** (2013.01 - KR); **E04H 4/0006** (2013.01 - EP KR US); **E04H 4/14** (2013.01 - KR)

Citation (search report)

- [XA] DE 2551052 A1 19760526 - ALSTHOM CGEE
- [XA] FR 344691 A 19041110 - HEINRICH HOEGLAUER [DE]
- [XA] US 3789612 A 19740205 - RICHARD G, et al
- [X] DE 102010035117 A1 20120223 - MUELLER FALKO [DE], et al
- [X] US 9920544 B1 20180320 - BENNETT WALTER JUDSON [US], et al
- [A] WO 2016129107 A1 20160818 - RESPONSE-ENGINEER INC [JP]
- [A] JP H03136678 A 19910611 - NIPPON KOKAN KK
- [A] JP S4849241 A 19730711
- [A] JP S5241392 A 19770330 - MITSUI SHIPBUILDING ENG
- [A] US 2017021257 A1 20170126 - OLSEN II GILBERT T [US]
- See references of WO 2020105090A1

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)  
**EP 3885011 A1 20210929; EP 3885011 A4 20211201**; AU 2018449992 A1 20210624; CN 113195065 A 20210730; JP 6579566 B1 20190925; JP WO2020105090 A1 20210215; KR 20210090701 A 20210720; SG 11202106176S A 20210729; US 2022008799 A1 20220113; WO 2020105090 A1 20200528

DOCDB simple family (application)  
**EP 18940515 A 20181119**; AU 2018449992 A 20181119; CN 201880100348 A 20181119; JP 2018042669 W 20181119; JP 2019517449 A 20181119; KR 20217018947 A 20181119; SG 11202106176S A 20181119; US 201817294966 A 20181119