

Title (en)  
CLEANING DEVICE FOR A SUBMERGED SURFACE

Title (de)  
REINIGUNGSVORRICHTUNG FÜR EINE UNTERGETAUCHTE OBERFLÄCHE

Title (fr)  
DISPOSITIF DE NETTOYAGE POUR UNE SURFACE IMMERGÉE

Publication  
**EP 3742896 A1 20201202 (EN)**

Application  
**EP 19743883 A 20190122**

Priority  
• NO 20180118 A 20180125  
• NO 20181124 A 20180828  
• NO 2019050012 W 20190122

Abstract (en)  
[origin: WO2019147137A1] A cleaning device (1) for cleaning a submerged surface (99), the cleaning device (1) forming a first end portion (11) and a second end portion (12), and the cleaning device (1) including at least one rotatable brush (20) arranged to roll across the surface (99). The cleaning device further includes a frame (10) with a first axis (A1) between the first end portion (11) and the second end portion (12), and a second axis (A2) perpendicular to the first axis (A1). The brush (20) is provided with a rotational axis (20R) which is slanted relative to the first axis (A1). A rotatable brush (20A-D) for cleaning a submerged surface is described as well. The rotatable brush (20A-D) has a bristle (26A-C) with a free end portion (28) and a circular circumferential path (31), where the free end portion (28) forms a secant angle (a) with the circumferential path (31) which is different from 90 degrees.

IPC 8 full level  
**A01K 63/10** (2017.01); **B08B 1/00** (2006.01); **B08B 1/04** (2006.01); **B63B 59/08** (2006.01); **B63B 59/10** (2006.01)

CPC (source: DK EP KR NO)  
**A01K 63/10** (2017.01 - DK EP KR NO); **A46B 13/001** (2013.01 - DK EP KR NO); **A46B 13/02** (2013.01 - NO); **B08B 1/00** (2013.01 - DK); **B08B 1/12** (2024.01 - EP KR NO); **B08B 1/165** (2024.01 - EP); **B08B 1/32** (2024.01 - KR NO); **B08B 1/34** (2024.01 - EP); **B63B 59/08** (2013.01 - DK EP KR NO); **B63B 59/10** (2013.01 - DK EP KR NO); **B63B 2059/087** (2013.01 - NO); **Y02A 40/81** (2018.01 - EP NO)

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 2019147137 A1 20190801**; AU 2019211023 A1 20200903; AU 2019211023 B2 20211202; CA 3089570 A1 20190801; CA 3204519 A1 20190801; CL 2020001953 A1 20201218; CN 111787790 A 20201016; DK 181512 B1 20240320; DK 202070491 A1 20200804; DK 202270218 A1 20220511; DK 202270218 A8 20220525; EP 3742896 A1 20201202; EP 3742896 A4 20211013; EP 4085764 A1 20221109; KR 20200111229 A 20200928; KR 20230092027 A 20230623; NO 20181124 A1 20190726; NO 343977 B1 20190805; NO 344164 B1 20190923

DOCDB simple family (application)  
**NO 2019050012 W 20190122**; AU 2019211023 A 20190122; CA 3089570 A 20190122; CA 3204519 A 20190122; CL 2020001953 A 20200724; CN 201980016066 A 20190122; DK PA202070491 A 20200716; DK PA202270218 A 20220426; EP 19743883 A 20190122; EP 22171418 A 20190122; KR 20207024345 A 20190122; KR 20237020069 A 20190122; NO 20180118 A 20180125; NO 20181124 A 20180828