

Title (en)

ROLLING APPARATUS FOR CLEANING A SUBMERGED SURFACE WITH AN ORIENTABLE DRIVING FLOW

Title (de)

ROLLGERÄT ZUR REINIGUNG EINER UNTERWASSERFLÄCHE MIT EINEM AUSRICHTBAREN ANTRIEBSFLUSS

Title (fr)

APPAREIL ROULANT NETTOYEUR DE SURFACE IMMERGÉE À FLUX D'ENTRAÎNEMENT ORIENTABLE

Publication

**EP 2321483 B1 20170719 (FR)**

Application

**EP 09740427 A 20090803**

Priority

- FR 2009051546 W 20090803
- FR 0804424 A 20080804

Abstract (en)

[origin: WO2010015774A2] The invention relates to a wheeled appliance for cleaning a submerged surface, comprising a hollow body; rolling members; a filter chamber formed within the hollow body; a motor-driven pumping device suitable for generating a stream of liquid between a liquid inlet (9) and a liquid outlet, the inlet and the outlet being connected to each other, said appliance being characterized in that it comprises a directional flow guide (91) mounted rotatably on a liquid outlet (10) about an axis of rotation and having a shape suitable for orienting the current of liquid which escapes through this propulsive outlet (10) through this flow guide (91) in such a way that it creates, by reaction, in a flow guide outlet, forces whose resultant has a non-zero component causing the appliance to be propelled parallel to the submerged surface; an actuator for turning said flow guide (91); and a unit for controlling said actuator for turning said flow guide (91).

IPC 8 full level

**E04H 4/16** (2006.01)

CPC (source: EP US)

**E04H 4/1654** (2013.01 - EP US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**FR 2934630 A1 20100205; FR 2934630 B1 20100813;** EP 2321483 A2 20110518; EP 2321483 B1 20170719; ES 2637427 T3 20171013; US 2011203060 A1 20110825; US 8595880 B2 20131203; WO 2010015774 A2 20100211; WO 2010015774 A3 20100514

DOCDB simple family (application)

**FR 0804424 A 20080804;** EP 09740427 A 20090803; ES 09740427 T 20090803; FR 2009051546 W 20090803; US 200913057561 A 20090803