

Title (en)
SUBMERGED-SURFACE CLEANING APPARATUS WITH ANGLED PUMPING IMPELLER

Title (de)
VORRICHTUNG ZUR REINIGUNG EINER UNTERGETAUCHTEN FLÄCHE MIT ABGEWINKELTEM PUMPLAUFRAD

Title (fr)
APPAREIL NETTOYEUR DE SURFACE IMMERGÉE À HÉLICE DE POMPAGE INCLINÉE

Publication
EP 2240654 B1 20110831 (FR)

Application
EP 08864710 A 20081218

Priority
• FR 2008052370 W 20081218
• FR 0708998 A 20071221

Abstract (en)
[origin: WO2009081060A2] The invention relates to a submerged-surface cleaning apparatus comprising a hollow body and members (2, 3, 4) for driving the body over the submerged surface, a filtration chamber created in the body and having: a liquid inlet (9) situated at the base of the body; a liquid outlet (10) situated on the opposite side to the base of the body; a hydraulic circuit for the circulation of liquid between this liquid inlet (9) and this liquid outlet (10) through a filtering device (11); a liquid pumping device (12, 13, 14) comprising a pumping motor (12) that has a rotary drive shaft (13) coupled to a pumping impeller (14) interposed in the hydraulic circuit, characterized in that the liquid outlet (10) is longitudinally offset from the liquid inlet (9) and in that the pumping impeller (14) has an axis of rotation (51) that is angled, making a non-zero angle other than 90° with the longitudinal direction.

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2925553 A1 20090626; FR 2925553 B1 20100312; AT E522682 T1 20110915; AU 2008339719 A1 20090702; AU 2008339719 B2 20150122; CA 2709896 A1 20090702; EP 2240654 A2 20101020; EP 2240654 B1 20110831; ES 2372791 T3 20120126; PT 2240654 E 20111222; US 2011000033 A1 20110106; US 8393032 B2 20130312; WO 2009081060 A2 20090702; WO 2009081060 A3 20090911; ZA 201005172 B 20111228

DOCDB simple family (application)
FR 0708998 A 20071221; AT 08864710 T 20081218; AU 2008339719 A 20081218; CA 2709896 A 20081218; EP 08864710 A 20081218; ES 08864710 T 20081218; FR 2008052370 W 20081218; PT 08864710 T 20081218; US 80868008 A 20081218; ZA 201005172 A 20100720