

Title (en)  
ROLLING SUBMERGED-SURFACE CLEANING APPARATUS DRIVEN BY A DRIVEN FRONT AXLE ASSEMBLY WITH PARTIALLY HYDRAULIC DRIVE ALSO

Title (de)  
ROLLENDE VORRICHTUNG ZUR REINIGUNG EINER UNTERGETAUCHTEN FLÄCHE MIT ANTRIEB DURCH EINE ANGETRIEBENE VORDERACHSENANORDNUNG UND MIT TEILWEISE HYDRAULISCHEM ANTRIEB

Title (fr)  
APPAREIL ROULANT NETTOYEUR DE SURFACE IMMERGÉE À ENTRAÎNEMENT PAR ESSIEU AVANT MOTEUR ET PARTIELLEMENT HYDRAULIQUE

Publication  
**EP 2235293 A2 20101006 (FR)**

Application  
**EP 08863747 A 20081217**

Priority  
• FR 2008052348 W 20081217  
• FR 0709003 A 20071221

Abstract (en)  
[origin: WO2009081044A2] The invention relates to a rolling submerged-surface cleaning apparatus comprising at least one driven front rolling member (2) and a hydraulic circuit having at least one rearwardly-directed liquid outlet (10) designed to create a liquid current which escapes from each rear outlet in such a way as to create a hydraulic reaction force with a longitudinal component of a magnitude designed to be able to drive the apparatus forward with at least one driven front rolling member (2) in contact with a front obstacle (53) in a contact zone (54) situated in the horizontal plane of the shaft of this driven front rolling member (2) with a driving force such that this driven front rolling member (2) rolls over this front obstacle (53) without slipping and makes the front part of the apparatus move upwards with respect to this front obstacle (53).

IPC 8 full level  
**E04H 4/16** (2006.01)

CPC (source: EP)  
**E04H 4/1654** (2013.01)

Citation (search report)  
See references of WO 2009081044A2

Cited by  
WO2016181065A1

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

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**FR 2925558 A1 20090626; FR 2925558 B1 20100122**; AT E513961 T1 20110715; EP 2235293 A2 20101006; EP 2235293 B1 20110622; ES 2368473 T3 20111117; WO 2009081044 A2 20090702; WO 2009081044 A3 20090911

DOCDB simple family (application)  
**FR 0709003 A 20071221**; AT 08863747 T 20081217; EP 08863747 A 20081217; ES 08863747 T 20081217; FR 2008052348 W 20081217