

Title (en)

Automated pool cleaning vehicle with rotating and stationary scrubbing elements

Title (de)

Automatisches Poolreinigungsfahrzeug mit rotierenden und stationären Scheuerelementen

Title (fr)

Véhicule de nettoyage de piscine automatique avec éléments d'épuration rotatifs et fixes

Publication

EP 2743430 A2 20140618 (EN)

Application

EP 13197511 A 20131216

Priority

US 201213717621 A 20121217

Abstract (en)

Disclosed herein is a submersible pool cleaning vehicle (PCV) (20) having both cleaning and scrubbing structures. The PCV includes spaced wheels (30) and several sets of scrubbing members (60,62,64). Each of the scrubbing members includes a plurality of scrubbing elements. The PCV also includes a cleaning brush (42) for dislodging particles. In one exemplary embodiment, the PCV includes a fixed scrubbing member (60) and two rotating scrubbing members (62,64). The rotating scrubbing members act cooperatively and create a current after dislodging particles and dirt from the pool surface. The rotating scrubbing members direct the current carrying such dislodged material toward the intakes of the PCV so that it can be permanently removed from the pool water.

IPC 8 full level

E04H 4/16 (2006.01)

CPC (source: EP US)

E04H 4/1654 (2013.01 - EP US)

Citation (applicant)

- US 7867389 B2 20110111 - HUI WING-KIN [HK]
- US 2009255070 A1 20091015 - HUI WING-KIN [HK]
- US 2012102665 A1 20120503 - HUI WING-KIN [HK], et al

Cited by

CN108776479A; US9909333B2; US9885194B1; US10767382B2; US9885196B2; US9896858B1; US10156083B2; US10253517B2; US10557278B2; US11236523B2

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 2743430 A2 20140618; EP 2743430 A3 20150909; EP 2743430 B1 20200715; CN 103867001 A 20140618; ES 2814875 T3 20210329; US 2014165307 A1 20140619

DOCDB simple family (application)

EP 13197511 A 20131216; CN 201310723694 A 20131217; ES 13197511 T 20131216; US 201213717621 A 20121217