

Title (en)

WATER JET POOL CLEANER WITH OPPOSING DUAL PROPELLERS

Title (de)

POOLREINIGER MIT WASSERDÜSEN UND GEGENLÄUFIGEN DOPPELPROPELLERN

Title (fr)

DISPOSITIF DE NETTOYAGE POUR PISCINE À JET D'EAU DOTÉ DE PROPULSEURS DOUBLES OPPOSÉS

Publication

EP 2673429 A4 20160120 (EN)

Application

EP 11858210 A 20110811

Priority

- US 2011000261 W 20110211
- US 2011047435 W 20110811

Abstract (en)

[origin: WO2012108903A1] A robotic pool or tank cleaner is propelled by water jets, the direction of which is controlled by the direction of rotation of a reversible pump motor that is horizontally mounted in the pool cleaner housing that has a propeller attached to either end of the motor drive shaft which projects from opposing ends of the motor body, each of the propellers being positioned in, or near a water jet discharge conduit that terminates in discharge ports at opposite ends of the housing. Each discharge conduit has a pressure-sensitive flap valve downstream of the respective propellers. When the propellers rotate in one direction, the water is drawn through one or more openings in the base plate, passes through one or more filter assemblies associated with the pool cleaner and is discharged through one of the discharge ports as a water jet of sufficient force to propel the pool cleaner.

IPC 8 full level

E04H 4/16 (2006.01); **B08B 5/00** (2006.01)

CPC (source: EP)

E04H 4/1654 (2013.01); **E04H 4/1663** (2013.01)

Citation (search report)

- [XYI] CN 1538022 A 20041020 - XU YONGDE [CN]
- [YA] US 2004168838 A1 20040902 - ERLICH GIORA [US], et al
- See references of WO 2012108903A1

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

DOCDB simple family (publication)

WO 2012108903 A1 20120816; WO 2012108903 A8 20130418; AU 2011358547 A1 20130418; AU 2016219631 A1 20160908; AU 2016219631 B2 20180301; EP 2673429 A1 20131218; EP 2673429 A4 20160120; EP 2673429 B1 20220309; EP 3792429 A1 20210317; ES 2912164 T3 20220524

DOCDB simple family (application)

US 2011047435 W 20110811; AU 2011358547 A 20110811; AU 2016219631 A 20160822; EP 11858210 A 20110811; EP 20197421 A 20110811; ES 11858210 T 20110811