

Title (en)

ROBOT SWIMMING POOL CLEANER WITH REVERSING ADJUSTMENT MECHANISM

Title (de)

SCHWIMMBECKENREINIGER MIT ROBOTER UND UMKEHREINSTELLMECHANISMUS

Title (fr)

ROBOT NETTOYEUR DE PISCINE AVEC MÉCANISME DE RÉGLAGE DE MARCHE ARRIÈRE

Publication

EP 4296454 A1 20231227 (EN)

Application

EP 23169879 A 20230425

Priority

- CN 202221550989 U 20220620
- CN 202221564058 U 20220620

Abstract (en)

The present application discloses a robot swimming pool cleaner with a reversing adjustment mechanism, which includes a main body provided with a water outlet. The water outlet is provided with the reversing adjustment mechanism. The reversing adjustment mechanism includes a plurality of adjustment blades which are linked. The adjustment blades are rotatably connected with the main body. One adjustment blade is provided with a pressing sheet. The pressing sheet is provided with a locating pin. The main body is provided with a plurality of locating holes matched with the locating pin. The robot swimming pool cleaner is provided with the reversing adjustment mechanism, adjustment for a water draining direction may be realized through the reversing adjustment mechanism, thereby changing a movement direction of the robot swimming pool cleaner, reducing a probability of repeating a cleaning route and improving a cleaning efficiency of the robot swimming pool cleaner. The reversing adjustment mechanism is simple and novel in structure, strong in practicability, and stable and reliable in performance; the locating pin may be disengaged from the locating holes in a way of pressing the pressing sheet with hand, the pressing sheet is released after adjustment to complete relocation of the adjustment blade; and the whole adjustment process is simple and convenient.

IPC 8 full level

E04H 4/16 (2006.01)

CPC (source: EP US)

E04H 4/1654 (2013.01 - EP); **E04H 4/1663** (2013.01 - EP US)

Citation (search report)

- [XAI] US 10260249 B2 20190416 - WITELSON SHAY [IL], et al
- [XAI] EP 1875017 B1 20090603 - BRENOT CLAUDE [FR]
- [XA] US 9366049 B1 20160614 - HUI WING-TAK [CN], et al
- [XAI] US 2022112735 A1 20220414 - BESNIER ARNAUD [FR], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4296454 A1 20231227; AU 2023202590 A1 20240118; CA 3197955 A1 20231220; MX 2023007200 A 20231221;
US 2023407661 A1 20231221

DOCDB simple family (application)

EP 23169879 A 20230425; AU 2023202590 A 20230428; CA 3197955 A 20230426; MX 2023007200 A 20230615; US 202318308116 A 20230427