

Title (en)
SELF-PROPELLED CLEANING MACHINE

Title (de)
SELBSTFAHRENDE REINIGUNGSMASCHINE

Title (fr)
MACHINE DE NETTOYAGE AUTOPROPULSÉE

Publication
EP 4321077 A1 20240214 (EN)

Application
EP 23161188 A 20230310

Priority
CN 202210945808 A 20220808

Abstract (en)
The present invention discloses a self-propelled cleaning machine including a base, a walking module, a lift module, a cleaning device and a reciprocating device. The lift module includes a lift seat, which is provided below the base and is configured to move up and down relative to the base for the lift seat to approach or depart from the base. The reciprocating device is connected to the cleaning device. At least a portion of the reciprocating device is configured to be connected to the lift seat of the lift module, so that the at least a portion of the reciprocating device moves up and down along with up-and-down movements of the lift seat. Moreover, the reciprocating device is configured to enable the cleaning device to perform a reciprocating motion relative to the lift seat in a mopping mode to thereby mop the floor back and forth.

IPC 8 full level
A47L 11/284 (2006.01); **A47L 11/28** (2006.01); **A47L 11/40** (2006.01); **A47L 25/00** (2006.01)

CPC (source: CN EP US)
A47L 11/24 (2013.01 - CN); **A47L 11/28** (2013.01 - EP); **A47L 11/284** (2013.01 - CN EP US); **A47L 11/4036** (2013.01 - US); **A47L 11/4055** (2013.01 - CN US); **A47L 11/4058** (2013.01 - EP); **A47L 11/4069** (2013.01 - US); **A47L 2201/00** (2013.01 - CN EP); **A47L 2201/06** (2013.01 - US)

Citation (applicant)
• CN 112842174 A 20210528 - SHENZHEN PUREH2B LIFE TECH CO LTD
• CN 107510417 A 20171226 - HOBOT TECH CO LTD

Citation (search report)
• [XA] CN 216569771 U 20220524 - SHENZHEN TSUCHUAN ROBOT LTD COMPANY
• [XAI] CN 113693497 A 20211126 - BEIJING ROBOROCK TECH CO LTD
• [XA] CN 114795009 A 20220729 - WUXI ROIDMI INF TECH CO LTD
• [XA] CN 216364940 U 20220426 - SUZHOU LEYTT INTELLIGENT TECH CO LTD

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 4321077 A1 20240214; CN 117562456 A 20240220; TW 202406496 A 20240216; US 2024041287 A1 20240208

DOCDB simple family (application)
EP 23161188 A 20230310; CN 202210945808 A 20220808; TW 112111458 A 20230327; US 202318194152 A 20230331