

Title (en)
CLEANING ROBOT AND CONTROL METHOD

Title (de)
REINIGUNGSROBOTER UND STEUERUNGSVERFAHREN

Title (fr)
ROBOT DE NETTOYAGE ET PROCÉDÉ DE COMMANDE

Publication
EP 3900602 A1 20211027 (EN)

Application
EP 19900880 A 20191220

Priority

- CN 201811572166 A 20181221
- CN 201811572174 A 20181221
- CN 201910250300 A 20190329
- CN 2019127044 W 20191220

Abstract (en)
The present invention relates to a cleaning robot and a control method. The cleaning robot may include: a body; a moving mechanism, configured to support the body and driving the cleaning robot to move; a power module, configured to provide a driving force for the cleaning robot to move and work; a mopping module, configured to be mounted on the body and perform predetermined mopping work, where a mop is capable of being mounted on the mopping module; and a control module, configured to be electrically connected to and control the power module, to implement automatic moving and automatic working of the cleaning robot; and further includes a liquid supply device, where the control module can control, based on a current mopping condition, the liquid supply device to convey a liquid to the mopping module. The beneficial effects of the present invention are that the cleaning robot can complete mopping work more efficiently, to reduce burden of a user and improve the degree of automation and the user experience of the cleaning robot. The cleaning robot can intelligently and autonomously control, based on the current mopping condition, the liquid supply device to convey a liquid to a mop, thereby prolonging the service life of a ground material such as a floor in home of the user.

IPC 8 full level
A47L 11/24 (2006.01); **A47L 11/40** (2006.01)

CPC (source: CN EP KR US)
A47L 11/28 (2013.01 - CN); **A47L 11/284** (2013.01 - EP US); **A47L 11/4011** (2013.01 - CN EP KR US); **A47L 11/4036** (2013.01 - KR US); **A47L 11/4055** (2013.01 - EP KR US); **A47L 11/4061** (2013.01 - CN KR US); **A47L 11/4083** (2013.01 - EP US); **A47L 11/4088** (2013.01 - KR US); **A47L 2201/028** (2013.01 - EP US); **A47L 2201/04** (2013.01 - CN KR US); **A47L 2201/06** (2013.01 - CN EP KR US)

Cited by
ES2948865A1; CN114587196A

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 3900602 A1 20211027; **EP 3900602 A4 20220914**; CN 111345744 A 20200630; CN 111345745 A 20200630; JP 2022514791 A 20220215; KR 102611848 B1 20231208; KR 20210108959 A 20210903; US 2022047141 A1 20220217; WO 2020125758 A1 20200625; WO 2020125758 A9 20201008

DOCDB simple family (application)
EP 19900880 A 20191220; CN 201911329264 A 20191220; CN 201911329277 A 20191220; CN 2019127044 W 20191220; JP 2021536292 A 20191220; KR 20217019203 A 20191220; US 201917417059 A 20191220