

Title (en)
ROBOT CLEANER

Title (de)
REINIGUNGSROBOTER

Title (fr)
ROBOT NETTOYEUR

Publication
EP 4142559 A4 20240605 (EN)

Application
EP 20934170 A 20200810

Priority
• KR 20200051421 A 20200428
• KR 2020010545 W 20200810

Abstract (en)
[origin: US2021330148A1] A robot cleaner includes a main body forming an exterior of the robot cleaner, a driving unit configured to move the main body, a cleaning module coupled to the main body and configured to suction dust from a traveling surface, and a dust collector coupled to the main body and configured to collect the dust suctioned by the cleaning module. The cleaning module includes a cleaning module housing that defines an exterior of the cleaning module that is coupled to the main body. A mopping unit is rotatably coupled in the cleaning module housing. The mopping unit is configured to accommodate water therein and clean the traveling surface. A mop is detachably coupled to the mopping unit, and a pump is disposed in the mopping unit. The pump is configured to guide water to the mop as the main body moves.

IPC 8 full level
A47L 11/40 (2006.01)

CPC (source: EP US)
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Citation (search report)
• [A] US 2018184870 A1 20180705 - MOON SIHWAN [KR], et al
• [A] WO 2017052180 A1 20170330 - LG ELECTRONICS INC [KR]
• [A] KR 100887891 B1 20090306 - OH JAE WOOK [KR]
• [AD] CN 104545707 A 20150429 - LIANG SHENGXI
• See also references of WO 2021221233A1

Designated contracting state (EPC)
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US 2021330148 A1 20211028; EP 4142559 A1 20230308; EP 4142559 A4 20240605; KR 102325528 B1 20211112;
KR 20210132919 A 20211105; TW 202139913 A 20211101; TW I763030 B 20220501; WO 2021221233 A1 20211104

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US 202016936481 A 20200723; EP 20934170 A 20200810; KR 20200051421 A 20200428; KR 2020010545 W 20200810;
TW 109130811 A 20200908