

Title (en)  
CHARGING STATION FOR ROBOT CLEANER

Title (de)  
ANDOCKSTATION FÜR REINIGUNGSROBOTER

Title (fr)  
STATION DE CHARGE POUR ROBOT NETTOYEUR

Publication  
**EP 4085811 A4 20240320 (EN)**

Application  
**EP 20908661 A 20201215**

Priority  
• US 201962954668 P 20191230  
• KR 20200148342 A 20201109  
• KR 2020018360 W 20201215

Abstract (en)  
[origin: EP4085811A1] The present invention relates to a charging apparatus for a robot cleaner, and includes a charging apparatus body that supplies power to a robot cleaner to which a mop facing a floor surface is coupled to a lower side, and accommodates a power module therein, a docking plate disposed on one side of the charging apparatus body, at least a portion of which has an inclined surface, and docking the robot cleaner on an upper portion thereof, and a reaction force removal groove formed by being depressed downward from the docking plate and disposed to overlap at least a portion of the first or second rotation plate when the robot cleaner is docked. It is an invention related to a charging apparatus for a robot cleaner that by separating the area that generates reaction force that prevents the robot cleaner from driving from the docking plate, allows the robot cleaner to more easily climb the docking plate, and at the same time collects and dries the remaining moisture in the mop.

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

CPC (source: EP)  
**A47L 11/4005** (2013.01); **A47L 11/4038** (2013.01); **A47L 11/4072** (2013.01); **A47L 11/4091** (2013.01); **A47L 2201/02** (2013.01); **A47L 2201/022** (2013.01)

Citation (search report)  
• [XA] KR 20190099407 A 20190827 - YUNJING INTELLIGENCE TECH DONGGUAN CO LTD [CN]  
• [XA] KR 100962121 B1 20100610  
• See also references of WO 2021137476A1

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)  
**EP 4085811 A1 20221109**; **EP 4085811 A4 20240320**; AU 2020418666 A1 20220721; CN 114929080 A 20220819; CN 114929080 B 20240514; WO 2021137476 A1 20210708

DOCDB simple family (application)  
**EP 20908661 A 20201215**; AU 2020418666 A 20201215; CN 202080090903 A 20201215; KR 2020018360 W 20201215