

Title (en)

CLEANING DEVICE COMPRISING VACUUM CLEANER AND DOCKING STATION

Title (de)

REINIGUNGSVORRICHTUNG MIT STAUBSAUGER UND ANDOCKSTATION

Title (fr)

DISPOSITIF DE NETTOYAGE COMPRENANT UN ASPIRATEUR ET UNE STATION D'ACCUEIL

Publication

EP 4154786 A4 20231227 (EN)

Application

EP 21831600 A 20210512

Priority

- KR 20200082178 A 20200703
- KR 2021005933 W 20210512

Abstract (en)

[origin: EP4154786A1] Provided is a cleaning apparatus including: a vacuum cleaner including a battery configured to generate a suction force and a dust collecting chamber in which foreign substances suctioned by the suction force are collected; and a docking station connected to the vacuum cleaner and having a long axis extending in a first direction, wherein the docking station includes: a charging part provided to come in contact with the battery to charge the battery; a docking part connected to the dust collecting chamber to remove the foreign substances collected in the dust collecting chamber; and a suction device configured to suction the foreign substances and internal air in the dust collecting chamber docked onto the docking part, wherein the docking part includes a docking opening that is opened in a second direction different from the first direction such that at least a portion of the dust collecting chamber is inserted into the docking opening.

IPC 8 full level

A47L 9/28 (2006.01); **A47L 9/10** (2006.01); **A47L 9/16** (2006.01)

CPC (source: EP KR US)

A47L 5/225 (2013.01 - EP); **A47L 5/26** (2013.01 - EP US); **A47L 7/0095** (2013.01 - KR); **A47L 9/106** (2013.01 - EP); **A47L 9/14** (2013.01 - KR); **A47L 9/1418** (2013.01 - US); **A47L 9/1683** (2013.01 - EP US); **A47L 9/1691** (2013.01 - EP); **A47L 9/2805** (2013.01 - KR); **A47L 9/2836** (2013.01 - KR); **A47L 9/2842** (2013.01 - KR); **A47L 9/2873** (2013.01 - EP KR US)

Citation (search report)

- [A] WO 2015129387 A1 20150903 - MITSUBISHI ELECTRIC CORP [JP], et al
- [A] DE 202018103929 U1 20180718 - NEW ICON DEVELOPMENT LTD [HK]
- [A] EP 3524115 A1 20190814 - LG ELECTRONICS INC [KR]
- See also references of WO 2022005013A1

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 4154786 A1 20230329; **EP 4154786 A4 20231227**; CN 115734735 A 20230303; KR 102470035 B1 20221125; KR 102566393 B1 20230814; KR 20210002057 A 20210106; KR 20220016265 A 20220208; KR 20230121703 A 20230821; US 2023146588 A1 20230511; WO 2022005013 A1 20220106

DOCDB simple family (application)

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