

Title (en)
CLEANER

Title (de)
REINIGER

Title (fr)
APPAREIL DE NETTOYAGE

Publication
EP 4005457 A4 20231011 (EN)

Application
EP 20848313 A 20200129

Priority

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- KR 20190093479 A 20190731
- KR 20190176622 A 20191227
- KR 2020001355 W 20200129

Abstract (en)
[origin: EP4005457A1] The present disclosure discloses a cleaner including a dust housing, an agitator, and a dustpan. The dust housing has a collection opening surface toward a floor. The agitator is disposed at an inside of the dust housing, is rotatably assembled with the dust housing, and is exposed to an outside through the collection opening surface. The agitator is in contact with the floor and sweeps up a foreign material on the floor into the inside of dust housing. The dustpan is installed on any one of the dust housing or the agitator and guides the foreign material moved by the agitator into the inside of the dust housing. The dustpan surrounds a part of an outer circumferential surface of the agitator and is installed to independently rotate with the agitator. When the dustpan of the present disclosure interferes with an obstacle on the floor, the dustpan is rotated and accommodated into a collection space positioned at the inside of the dust housing. Thus, interference or impact with the obstacle can be minimized.

IPC 8 full level
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CPC (source: EP)
A47L 9/0411 (2013.01); **A47L 9/0477** (2013.01); **A47L 11/24** (2013.01); **A47L 2201/00** (2013.01)

Citation (search report)

- [A] US 2010269290 A1 20101028 - LEE BYUNG-JO [KR]
- [A] EP 1217930 A2 20020703 - JOHNSON S C COMM MARKETS INC [US]
- [A] EP 2747625 A1 20140702 - KONINKL PHILIPS NV [NL]
- [A] US 2904818 A 19590922 - SHEAHAN ROBERT E
- See references of WO 2021020677A1

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)
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EP 20848313 A 20200129; AU 2020320325 A 20200129; CN 202080055446 A 20200129; KR 2020001355 W 20200129