

Title (en)

Automatic cleaner

Title (de)

Automatischer Reiniger

Title (fr)

Nettoyeur automatique

Publication

EP 2749194 A3 20180314 (EN)

Application

EP 13199543 A 20131224

Priority

KR 20120153102 A 20121226

Abstract (en)

[origin: EP2749194A2] Provided is an automatic cleaner (10). The automatic cleaner (10) includes a casing (110) having a suction hole (112), a main brush (120) disposed on a side of the suction hole (112) within the casing (110), a first driving part (150) arranged to rotate the main brush (120), an operable member (210) movably disposed on the casing (110), a second driving part (230) arranged to generate power for moving the operable member (210), a side brush (220) rotatably disposed on the operable member (210) to receive power of the first driving part (150), and a control part (170) arranged to control the first and second driving parts (150, 230).

IPC 8 full level

A47L 9/28 (2006.01); **A47L 9/04** (2006.01)

CPC (source: EP KR)

A47L 9/0433 (2013.01 - EP); **A47L 9/0444** (2013.01 - EP); **A47L 9/0455** (2013.01 - EP); **A47L 9/0488** (2013.01 - EP); **A47L 9/28** (2013.01 - KR); **A47L 9/2805** (2013.01 - EP); **A47L 9/2847** (2013.01 - EP); **A47L 11/14** (2013.01 - KR); **A47L 11/204** (2013.01 - KR); **A47L 2201/00** (2013.01 - EP)

Citation (search report)

- [A] JP 2005006857 A 20050113 - TOSHIBA TEC KK
- [A] JP 2006087507 A 20060406 - SANYO ELECTRIC CO
- [A] EP 2417892 A1 20120215 - LG ELECTRONICS INC [KR]

Cited by

US2022083070A1; EP4064950A4; EP3995064A1; WO2021107320A1; US11284759B2; US2022175204A1; WO2021210732A1

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 2749194 A2 20140702; EP 2749194 A3 20180314; EP 2749194 B1 20181114; AU 2013270454 A1 20140710; AU 2013270454 B2 20150924; CN 103892770 A 20140702; CN 103892770 B 20170412; KR 101469333 B1 20141204; KR 20140083402 A 20140704; RU 2013157120 A 20150627; RU 2557509 C2 20150720

DOCDB simple family (application)

EP 13199543 A 20131224; AU 2013270454 A 20131210; CN 201310733993 A 20131226; KR 20120153102 A 20121226; RU 2013157120 A 20131223