

Title (en)
CLEANING APPLIANCE

Title (de)
REINIGUNGSVORRICHTUNG

Title (fr)
APPAREIL DE NETTOYAGE

Publication
EP 3809935 A4 20220330 (EN)

Application
EP 19811940 A 20190521

Priority
• KR 20180062623 A 20180531
• KR 2019006074 W 20190521

Abstract (en)
[origin: WO2019231157A1] A cleaning appliance comprises a housing provided in a hollow cylinder shape, having an intake unit and an exhaust unit; a fan provided to include an impeller located in the housing, a rotary shaft to which the impeller is fixed, and a motor rotating the rotary shaft, moving the air entering the housing through the intake unit to the exhaust unit; a particle separator provided inside the housing to provide a path for guiding the air entering the intake unit to the impeller, separating particles from the air by using a centrifugal force; a battery housing located at a point spaced apart from a point where the intake unit is located, as much as 180°, in a space provided by a circumferential surface of the housing and protruded to be far away from the circumferential surface of the housing; a battery provided in the battery housing, supplying a power to the motor; and a handle provided to connect the circumferential surface of the housing with the battery housing, wherein the rotary shaft is inclined at an angle greater than 0° and smaller than 90° toward a direction where the handle is located based on a vertical line passing through the center of gravity of the particle separator.

IPC 8 full level
A47L 5/24 (2006.01); **A47L 9/16** (2006.01); **A47L 9/22** (2006.01); **A47L 9/28** (2006.01); **A47L 9/32** (2006.01)

CPC (source: EP KR US)

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A47L 9/22 (2013.01 - EP KR US); **A47L 9/2884** (2013.01 - EP KR US); **A47L 9/322** (2013.01 - EP KR US)

Citation (search report)

- [XA] WO 2018036123 A1 20180301 - TTI MACAO COMMERCIAL OFFSHORE LTD [CN]
- [X] WO 2017147643 A1 20170908 - ELECTRICAL HOME-AIDS PTY LTD [AU]
- [A] DE 202016104819 U1 20171204 - GENIUS GMBH [DE]
- [A] WO 2018021415 A1 20180201 - TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORP [JP]
- See also references of WO 2019231157A1

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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KR 20190136643 A 20191210; TW 202000110 A 20200101; TW I728366 B 20210521; US 2021137336 A1 20210513

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