

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 pint 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
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CPC (source: EP KR US)
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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)
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