

Title (en)  
CYCLONE DUST COLLECTION DEVICE, AND VACUUM CLEANER AND HANDY-STICK TYPE VACUUM CLEANER WHICH INCLUDE SAME

Title (de)  
ZYKLONSTAUBSAMMELVORRICHTUNG, STAUBSAUGER UND STABSTAUBSAUGER DAMIT

Title (fr)  
DISPOSITIF DE COLLECTE DE POUSSIÈRE À CYCLONE, ET ASPIRATEUR ET ASPIRATEUR DE TYPE À MANCHE MANIABLE  
COMPRENANT LEDIT DISPOSITIF

Publication  
**EP 3639714 A4 20200722 (EN)**

Application  
**EP 18844477 A 20180730**

Priority  
• KR 20170099853 A 20170807  
• KR 2018008630 W 20180730

Abstract (en)  
[origin: EP3639714A1] Provided is a cyclone dust collector with improved usability, a vacuum cleaner having the cyclone dust collector, and a handy-stick type vacuum cleaner having the cyclone dust collector. The handy-stick type vacuum cleaner includes the cyclone dust collector. The cyclone dust collector includes a suction duct configured to suction air in a first direction and provided with an air suction passage formed therein, a cyclone chamber configured to separate dust from air introduced through the suction duct by turning the air, and provided with a grille rotatably formed therein, and a dust collection chamber configured to collect the dust separated from the air in the cyclone chamber in a second direction opposite to the first direction.

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

CPC (source: EP KR US)  
**A47L 5/225** (2013.01 - EP); **A47L 5/24** (2013.01 - EP KR US); **A47L 9/122** (2013.01 - EP); **A47L 9/1608** (2013.01 - EP KR US);  
**A47L 9/1658** (2013.01 - US); **A47L 9/1666** (2013.01 - US); **A47L 9/1675** (2013.01 - EP); **A47L 9/1683** (2013.01 - EP US);  
**A47L 9/1691** (2013.01 - EP US)

Citation (search report)  
• [I] WO 2017116159 A1 20170706 - SAMSUNG ELECTRONICS CO LTD [KR]  
• [A] KR 20020060379 A 20020718 - SAMSUNG KWANGJU ELECTRONICS CO [KR]  
• See also references of WO 2019031749A1

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 3639714 A1 20200422; EP 3639714 A4 20200722**; CN 111031870 A 20200417; CN 111031870 B 20220812; KR 102341743 B1 20211222;  
KR 20190015967 A 20190215; US 2020245834 A1 20200806; WO 2019031749 A1 20190214

DOCDB simple family (application)  
**EP 18844477 A 20180730**; CN 201880051652 A 20180730; KR 20170099853 A 20170807; KR 2018008630 W 20180730;  
US 201816637466 A 20180730