

Title (en)
CLEANING BIN FOR CLEANING ROBOT

Title (de)
REINIGUNGSBEHÄLTER FÜR REINIGUNGSROBOTER

Title (fr)
BAC DE NETTOYAGE POUR ROBOT DE NETTOYAGE

Publication
EP 3558080 B1 20230816 (EN)

Application
EP 16924247 A 20161222

Priority
US 2016068386 W 20161222

Abstract (en)
[origin: WO2018118072A1] A cleaning bin mountable to an autonomous cleaning robot operable to receive debris from a floor surface includes a debris compartment to receive a first portion of debris separated from the airflow and a particulate compartment to receive a second portion of debris separated from the airflow. The cleaning bin also includes a debris separation cone having an inner conduit defining an upper opening and lower opening. The upper opening receives the airflow from the air channel. The inner conduit tapers from the upper opening to the lower opening such that the airflow forms a cyclone within the inner conduit.

IPC 8 full level
A47L 9/16 (2006.01); **A47L 9/12** (2006.01); **A47L 11/24** (2006.01)

CPC (source: EP)
A47L 9/0477 (2013.01); **A47L 9/102** (2013.01); **A47L 9/106** (2013.01); **A47L 9/122** (2013.01); **A47L 9/1625** (2013.01); **A47L 9/1641** (2013.01); **A47L 9/1683** (2013.01); **A47L 2201/00** (2013.01); **A47L 2201/024** (2013.01)

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)
WO 2018118072 A1 20180628; CN 108882817 A 20181123; CN 108882817 B 20210601; EP 3558080 A1 20191030; EP 3558080 A4 20200812; EP 3558080 B1 20230816; JP 2020513861 A 20200521; JP 6686171 B1 20200422; MY 195615 A 20230202

DOCDB simple family (application)
US 2016068386 W 20161222; CN 201680084196 A 20161222; EP 16924247 A 20161222; JP 2018550709 A 20161222; MY PI2019003479 A 20161222