

Title (en)

Apparatus for collecting dust and vacuum cleaner having the same

Title (de)

Gerät zum Sammeln von Staub und Staubsauger mit diesem Gerät

Title (fr)

Appareil pour la collection de poussière et aspirateur avec cet appareil

Publication

EP 1676517 B1 20111026 (EN)

Application

EP 05110344 A 20051104

Priority

KR 20050000445 A 20050104

Abstract (en)

[origin: EP1676517A2] An apparatus for collecting dust and vacuum cleaner having the same are disclosed, by which dust collecting performance is enhanced. The present invention includes a primary cyclone dust collecting part (212,214) performing centrifugal separation to collect the dust included in an air introduced via a first inlet (214a) provided to an outer circumference of the primary cyclone dust collecting part (212,214), an exhaust member (217) provided within the primary cyclone dust collecting part (212,214) wherein a multitude of perforated holes are provided to a lateral side of the exhaust member (217) to communicate with a first outlet (214b) of the primary cyclone dust collecting part (212,214), and a guide rib (218) provided to the primary cyclone dust collecting part (212,214) guiding the air introduced into the first inlet (214a) in a direction tangential to an inner wall of the primary cyclone dust collecting part (212,214) to prevent the air from being directly introduced into the exhaust member (217), the guide rib (218) making a prescribed angle with a tangential line at a point connected to the primary cyclone dust collecting part (212,214).

IPC 8 full level

A47L 9/16 (2006.01); **B04C 5/26** (2006.01)

CPC (source: EP KR)

A47L 9/16 (2013.01 - KR); **A47L 9/1625** (2013.01 - EP); **A47L 9/1641** (2013.01 - EP); **A47L 9/165** (2013.01 - EP); **A47L 9/1666** (2013.01 - EP); **B04C 5/04** (2013.01 - EP); **B04C 5/13** (2013.01 - EP); **B04C 5/24** (2013.01 - EP)

Cited by

CN112043202A; JP2016187502A; CN110505826A; AU2012241550B2; US2023190061A1; US9237834B2; US9451859B2; US8931136B2; WO2012140452A1; US9414730B2; US9918602B2; US10750916B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1676517 A2 20060705; **EP 1676517 A3 20090805**; **EP 1676517 B1 20111026**; AT E530100 T1 20111115; ES 2373103 T3 20120131; KR 100556442 B1 20060303

DOCDB simple family (application)

EP 05110344 A 20051104; AT 05110344 T 20051104; ES 05110344 T 20051104; KR 20050000445 A 20050104