

Title (en)
DUST SEPARATING/DUST COLLECTING CONTAINER AND ELECTRIC CLEANER

Title (de)
STAUBABSCHEIDUNGS-/STAUBSAMMELBEHÄLTER UND ELEKTRISCHER REINIGER DAMIT

Title (fr)
RÉCIPIENT SÉPARATEUR DE POUSSIÈRE/COLLECTEUR DE POUSSIÈRE ET APPAREIL DE NETTOYAGE ÉLECTRIQUE

Publication
EP 2540206 A4 20130731 (EN)

Application
EP 11747518 A 20110225

Priority
• JP 2010043322 A 20100226
• JP 2010043321 A 20100226
• JP 2011054334 W 20110225

Abstract (en)
[origin: EP2540206A1] A dust collecting device and an electric vacuum cleaner capable of: performing centrifugal separation using a swirling flow generated in a cylindrical container body while accumulating centrifugally separated dust; and reliably collecting dust that have once been accumulated. The dust collecting device comprising: a container body 33 having a closed-end cylindrical shape; a suction tube 34 that is connected to the container body 33 and generates a swirling flow along an inner periphery of the container body 33; a discharge tube 35 that is connected to the container body 33 so as to be closer to one end of the container body 33 than the suction tube 34; a partitioning wall 37 that includes a first opening 37a at substantially a center of the container body 33 and is provided between the suction tube 34 and the discharge tube 35; and a separating wall 41 that located closer to another end of the container body 33 than a connection portion of the suction tube 34, forms a gap 39 between an inner peripheral surface of the container body 33 and the separating wall 41, and includes an opening 41a on an outer side of the center of the container body 33.

IPC 8 full level
A47L 9/16 (2006.01)

CPC (source: EP KR)
A47L 9/10 (2013.01 - KR); **A47L 9/16** (2013.01 - KR); **A47L 9/1608** (2013.01 - EP); **A47L 9/1666** (2013.01 - EP); **A47L 9/1683** (2013.01 - EP)

Citation (search report)
• [XA] US 2006053757 A1 20060316 - HAN JUNG-GYUN [KR], et al
• [XA] JP 2002051950 A 20020219 - SHARP KK
• [XA] EP 1987759 A2 20081105 - SAMSUNG KWANGJU ELECTRONICS CO [KR]
• [A] WO 0107168 A1 20010201 - GBD CORP [CA], et al
• See references of WO 2011105562A1

Cited by
EP3289947A4; EP3050477A1; EP3210514A1; FR3048172A1; US10736475B2; US10786126B2; US11357370B2; US11432690B2; US12035872B2

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)
EP 2540206 A1 20130102; EP 2540206 A4 20130731; EP 2540206 B1 20150325; CN 102858218 A 20130102; CN 102858218 B 20150826; KR 101399752 B1 20140527; KR 20120125312 A 20121114; RU 2012141042 A 20140410; RU 2526008 C2 20140820; WO 2011105562 A1 20110901

DOCDB simple family (application)
EP 11747518 A 20110225; CN 201180020868 A 20110225; JP 2011054334 W 20110225; KR 20127022192 A 20110225; RU 2012141042 A 20110225