Title (en)

Electric vacuum cleaner with two dust collecting sections and a switching mechanism

Title (de)

Elektrischer Staubsauger mit zwei Staubsammelbehältern und einem Umschaltmechanismus

Title (fr)

Aspirateur électrique avec deux collecteurs de poussières et un mécanisme de commutation

Publication

EP 1913857 A2 20080423 (EN)

Application

EP 07019140 A 20070928

Priority

JP 2006283949 A 20061018

Abstract (en)

Dust is trapped in a main dust collecting chamber (21) by selecting a cleaning state through a switching mechanism (58) where a switching valve (48) provides communication between the main dust collecting chamber (21) and the upstream side of an electric blower (5) while an outside air incoming valve (52) is closed to cut off the communication with outside air. The dust trapped in the main dust collecting chamber (21) can be transferred to the auxiliary dust collecting chamber (22) by selecting a dust transfer state through the switching mechanism (58) where the switching valve (48) provides communication between the auxiliary dust collecting chamber (22) and the upstream side of the electric blower (5) while the opening-closing valve (41) provides communication between the main dust collecting chamber (21) and the auxiliary dust collecting chamber (22), and the outside air incoming valve (52) is opened to introduce outside air into the main dust collecting chamber (21), which can limit the reduction in suction power over time.

IPC 8 full level

A47L 9/20 (2006.01); **A47L 9/10** (2006.01)

CPC (source: EP KR US)

A47L 9/10 (2013.01 - KR); **A47L 9/106** (2013.01 - EP US); **A47L 9/14** (2013.01 - KR); **A47L 9/1683** (2013.01 - EP US); **A47L 9/20** (2013.01 - EP US)

Cited by

WO2010124912A1; CN102413749A; EP3435828A4; AU2016400021B2; EP2368471A4; EP3581082A1; US11627863B2; US8142554B2; WO2020221625A1; US10184616B2; US8186005B2; US11197593B2; US11759067B2

Designated contracting state (EPC)

DE GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1913857 A2 20080423; **EP 1913857 A3 20091021**; **EP 1913857 B1 20110420**; CN 101164486 A 20080423; CN 101164486 B 20110928; DE 602007013985 D1 20110601; JP 2008099812 A 20080501; JP 4255132 B2 20090415; KR 100894375 B1 20090422; KR 20080035459 A 20080423; US 2008092326 A1 20080424

DOCDB simple family (application)

EP 07019140 A 20070928; CN 200710139093 A 20070725; DE 602007013985 T 20070928; JP 2006283949 A 20061018; KR 20070101035 A 20071008; US 97472707 A 20071016