

Title (en)
Suction cleaning device

Title (de)
Saugreinigungsgerät

Title (fr)
Appareil de nettoyage par aspiration

Publication
EP 2347690 B1 20150114 (DE)

Application
EP 11161193 A 20060126

Priority
• EP 06706421 A 20060126
• DE 102005017568 A 20050411

Abstract (en)
[origin: US2008086835A1] The invention relates to a vacuum cleaning device comprising a dirt collection container which has a suction inlet and is in flow connection with at least one suction unit via at least one filter and at least one suction line, and comprising at least one external air inlet which opens into the suction line downstream of the at least one filter and is adapted to be closed by means of at least one closing valve, the closing valve having a movable valve body which, in a closed position, bears against at least one valve seat so as to form one or more sealing lines, the at least one sealing line delimiting an area which, in the closed position of the closing valve, is acted upon by a differential pressure. In order to develop the vacuum cleaning device in such a way that the at least one closing valve is of structurally simple design and the at least one filter can be completely cleaned within a short period of time, the invention proposes that the square of the total length of all sealing lines is at least 25 times the total size of all areas which are delimited by the sealing lines and acted upon by a differential pressure.

IPC 8 full level
A47L 9/00 (2006.01); **A47L 9/20** (2006.01)

CPC (source: EP US)
A47L 9/0072 (2013.01 - EP US); **A47L 9/20** (2013.01 - EP US)

Cited by
US11627863B2; WO2021001152A1

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)
US 2008086835 A1 20080417; US 8186005 B2 20120529; AT E505123 T1 20110415; DE 102005017568 A1 20061012;
DE 102005017568 B4 20240425; DE 202006020948 U1 20110303; DE 502006009299 D1 20110526; DK 1868478 T3 20110725;
DK 2347690 T3 20150309; EP 1868478 A1 20071226; EP 1868478 B1 20110413; EP 2347690 A2 20110727; EP 2347690 A3 20130619;
EP 2347690 B1 20150114; ES 2361427 T3 20110616; PL 1868478 T3 20110930; PL 2347690 T3 20150630; WO 2006108460 A1 20061019

DOCDB simple family (application)
US 97387407 A 20071009; AT 06706421 T 20060126; DE 102005017568 A 20050411; DE 202006020948 U 20060126;
DE 502006009299 T 20060126; DK 06706421 T 20060126; DK 11161193 T 20060126; EP 06706421 A 20060126; EP 11161193 A 20060126;
EP 2006000672 W 20060126; ES 06706421 T 20060126; PL 06706421 T 20060126; PL 11161193 T 20060126