

Title (en)  
Dust collector

Title (de)  
Staubsaugler

Title (fr)  
Collecteur de poussière

Publication  
**EP 1743561 A3 20080109 (EN)**

Application  
**EP 06014399 A 20060711**

Priority  
JP 2005203207 A 20050712

Abstract (en)  
[origin: EP1743561A2] A dust collector which can brush off dust in a primary filter (15) automatically. A bag-shaped pre-filter (15) is installed on an upper opening of a tank (2) of a dust collector (1), and a powder filter (17) protruding towards an inner portion of the pre-filter (15) so as to partition a main body (4) and a suction tube (13), is installed over the upper opening of the tank (2) on an inner side of the pre-filter (15). A damper (22) corresponding to a plate-shaped sponge is interposed between the pre-filter (15) and the powder filter (17) in such a manner as to cover an inner side surface of the pre-filter (15) over its entire periphery. In accordance with contraction and restoration motion of the pre-filter (15) and of the damper (22) that result from operation and cessation of operation, dust attached to the pre-filter (15) can be brushed off.

IPC 8 full level  
**A47L 9/20** (2006.01); **A47L 5/36** (2006.01); **A47L 9/12** (2006.01); **A47L 9/14** (2006.01)

CPC (source: EP)  
**A47L 5/365** (2013.01); **A47L 9/125** (2013.01); **A47L 9/20** (2013.01)

Citation (search report)  
• [Y] US 5651811 A 19970729 - FREY ROBERT A [US], et al  
• [Y] US 5690710 A 19971125 - STEPHAN PAUL F [US]  
• [A] US 4297114 A 19811027 - HUTCHINS ALMA A  
• [A] US 6219880 B1 20010424 - WORDEN MICHAEL [US], et al  
• [A] US 6015452 A 20000118 - NEPSUND LARRY R [US], et al  
• [DA] JP 2002045318 A 20020212 - HITACHI KOKI KK

Cited by  
CN115999771A; CN107981781A

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1743561 A2 20070117; EP 1743561 A3 20080109; EP 1743561 B1 20121017; JP 2007021291 A 20070201; JP 4699825 B2 20110615**

DOCDB simple family (application)  
**EP 06014399 A 20060711; JP 2005203207 A 20050712**