

Title (en)
ELECTRIC CLEANER

Title (de)
ELEKTRISCHER REINIGER

Title (fr)
NETTOYEUR ÉLECTRIQUE

Publication
EP 2227998 A4 20120808 (EN)

Application
EP 08852498 A 20081118

Priority

- JP 2008070897 W 20081118
- JP 2007302484 A 20071122
- JP 2007307750 A 20071128

Abstract (en)
[origin: EP2227998A1] An electric vacuum cleaner is proposed that can compressively elastically support an electric blower in an electric blower case to isolate noise and vibration due to an operation of the electric blower. An elastic support 45 is a vibration isolating support portion that isolates vibration caused by the electric blower 21, and includes an inner peripheral ring 66 provided in an electric blower case 23, an outer peripheral ring 67 provided near the center of gravity of the electric blower 21, and a coil spring 68 that is a spring member having one end secured to the inner peripheral ring 66 and the other end secured to the outer peripheral ring 67 and to which a compressive force F is applied.

IPC 8 full level
A47L 9/22 (2006.01); **A47L 9/00** (2006.01)

CPC (source: EP)
A47L 9/0081 (2013.01); **A47L 9/22** (2013.01)

Citation (search report)

- [X] JP H0584194 A 19930406 - MATSUSHITA ELECTRIC IND CO LTD
- [X] JP 2001204655 A 20010731 - MATSUSHITA ELECTRIC IND CO LTD
- [X] US 5293664 A 19940315 - LIM MOO S [KR], et al
- [X] JP H04193143 A 19920713 - MATSUSHITA ELECTRIC IND CO LTD
- See references of WO 2009066648A1

Cited by
EP2907435A1; EP2907438A1; GB2514088A; GB2514088B; US11962221B2; EP3626146A1; EP3626147A1; FR3086154A1; FR3086155A1; US11116369B2; US11452412B2; US11937759B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2227998 A1 20100915; EP 2227998 A4 20120808; CN 101868173 A 20101020; CN 101868173 B 20120822; KR 101213305 B1 20121218; KR 20100087177 A 20100803; RU 2430674 C1 20111010; WO 2009066648 A1 20090528

DOCDB simple family (application)
EP 08852498 A 20081118; CN 200880117002 A 20081118; JP 2008070897 W 20081118; KR 20107011210 A 20081118; RU 2010125481 A 20081118