

Title (en)
Vacuum cleaner and controlling method of the same

Title (de)
Staubsauger und Steuerverfahren dafür

Title (fr)
Aspirateur et son procédé de commande

Publication
EP 1859719 A2 20071128 (EN)

Application
EP 07101387 A 20070130

Priority
• KR 20060046077 A 20060523
• KR 20060085919 A 20060906
• KR 20060098191 A 20061010

Abstract (en)
A vacuum cleaner that includes a dust collector (200) forming a dust storage and a method of controlling a vacuum cleaner are provided. The vacuum cleaner includes a fixed member (320), a rotating member (310), a compressing motor (430), a counter, a signaller (830), and a controller (600). The fixed member (320) is fixed to the dust storage (220). The rotating member (310) compresses the dust through interaction with the fixed member (320). The compressing motor (430) drives the rotating member (310). The counter measures a moving time of the rotating member. The signaller (830) issues a dust empty signal. The controller (600) operates the signaller when a measured moving time is less than a reference time. In the method, dust in the dust collector is compressed by the rotating member (310). A quantity of the compressed dust is determined. A signal to empty the compressed dust to an outside of the vacuum cleaner is issued when the quantity exceeds a predetermined amount.

IPC 8 full level
A47L 9/10 (2006.01); **A47L 9/19** (2006.01)

CPC (source: EP)
A47L 9/108 (2013.01); **A47L 9/19** (2013.01)

Citation (applicant)
• JP S58175532 A 19831014 - TOKYO ELECTRIC CO LTD
• DE 3242929 A1 19840524 - VORWERK CO INTERHOLDING [DE]

Cited by
US11497366B2; CN110840329A; CN102210574A; EP2173227A4; CN112013923A; WO2009011482A1

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 RS

DOCDB simple family (publication)
EP 1859719 A2 20071128; EP 1859719 A3 20120725; EP 1859719 B1 20140312; AU 2007200409 A1 20071213; AU 2007200409 B2 20090528; JP 2007313293 A 20071206; JP 4625039 B2 20110202

DOCDB simple family (application)
EP 07101387 A 20070130; AU 2007200409 A 20070131; JP 2007066748 A 20070315