

Title (en)
Vacuum cleaner with motor overheating safety device

Title (de)
Staubsauger mit Thermosicherung für den Motor

Title (fr)
Aspirateur avec sécurité thermique du moteur

Publication
EP 1656874 B1 20090401 (EN)

Application
EP 05024573 A 20051110

Priority
JP 2004328752 A 20041112

Abstract (en)
[origin: EP1656874A2] A vacuum cleaner includes an electric motor for driving a rotational brush for brushing dust particles from a surface to be cleaned, an electric blower for generating a suction air stream for sucking in the dust particles, a dust chamber for collecting the dust particles therein, a motor controller for controlling the electric motor, an input controller for controlling the electric blower, a current detector for detecting a current flowing through the motor controller, and a temperature detector for detecting a temperature of the electric motor. If the temperature of the electric motor increases over a predetermined temperature value, the electric motor is stopped and the stoppage of the electric motor is detected by the current detector.

IPC 8 full level
A47L 9/28 (2006.01)

CPC (source: EP US)
A47L 9/0411 (2013.01 - EP US); **A47L 9/2805** (2013.01 - EP US); **A47L 9/2831** (2013.01 - EP US); **A47L 9/2842** (2013.01 - EP US); **A47L 9/2857** (2013.01 - EP US); **A47L 9/2863** (2013.01 - EP US); **A47L 9/2889** (2013.01 - EP US)

Cited by
CN109106287A; CN113613537A; EP3241476A1; EP4252606A1; WO2014177171A1; WO2020163336A1; EP2062517B1

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)
EP 1656874 A2 20060517; EP 1656874 A3 20070418; EP 1656874 B1 20090401; AT E427064 T1 20090415; CN 100344254 C 20071024; CN 1771878 A 20060517; DE 602005013628 D1 20090514; ES 2321731 T3 20090610; JP 2006136512 A 20060601; US 2006101605 A1 20060518

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