

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 A2 20060517 (EN)**

Application  
**EP 05024573 A 20051110**

Priority  
JP 2004328752 A 20041112

Abstract (en)  
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)

Citation (applicant)  
US 6351872 B1 20020305 - MCCORMICK MICHAEL J [US]

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

Designated contracting state (EPC)  
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