

Title (en)  
FLOOR CLEANING DEVICE

Title (de)  
BODENPFLEGEGERÄT

Title (fr)  
APPAREIL D'ENTRETIEN DU SOL

Publication  
**EP 2944244 B1 20170524 (DE)**

Application  
**EP 15166366 A 20150505**

Priority  
• DE 102014006676 A 20140506  
• DE 102014010099 A 20140705

Abstract (en)  
[origin: CA2890800A1] Disclosed is a floor care appliance in the form of a brush vacuum cleaner having a brush set facing the floor for receiving a driven brush roller with an overload protection, wherein the brush set has at least one electric motor for a suction fan and for the drive of the brush roller, which is assigned a unit for detecting the torque and a safety shutdown is accomplished by means of a switch arrangement above a torque threshold due to overload, wherein a driven element of the unit for torque detection is disposed in the drive train which above the torque threshold can be coupled by means of a switchable coupling element to an associated body of rotation in the form of an eddy current disk made of electrically conductive material, wherein the eddy current disk is assigned at least one magnet which is pivotably positioned on a fixedly mounted movable support, and an adjustment of the support is made by a magnetic field of the coupled eddy current disk formed by the generated eddy current, wherein the support controls a corresponding circuit arrangement such as a switching element as safety cut-off.

IPC 8 full level  
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CPC (source: EP US)  
**A47L 9/0411** (2013.01 - EP US); **A47L 9/0427** (2013.01 - EP US); **A47L 9/0444** (2013.01 - EP US); **A47L 9/2831** (2013.01 - EP US); **A47L 9/2847** (2013.01 - EP US); **A47L 9/2857** (2013.01 - US); **A47L 9/2889** (2013.01 - EP US)

Designated contracting state (EPC)  
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