

Title (en)

Apparatus for preventing motor overload of a vacuum cleaner

Title (de)

Vorrichtung zum Vermeiden einer Überbelastung des Motors eines Staubsaugers

Title (fr)

Appareil pour empêcher le surchargement du moteur d'un aspirateur

Publication

EP 1514505 A2 20050316 (EN)

Application

EP 04253436 A 20040609

Priority

KR 20030063138 A 20030909

Abstract (en)

A motor overload preventing apparatus for a vacuum cleaner includes a damper body and an resilient member. The damper body has an opening/closing portion formed on one end, to selectively block a tapered aperture of a body frame of the vacuum cleaner, and the opening/closing portion is tapered to correspond in shape with the aperture. The resilient member resiliently biases the opening/closing portion toward a direction of closing the aperture. The damper body is movably disposed to rotate so as to selectively open and close the aperture, and to this end, it is preferred that the damper body is connected by a hinge to the body frame. Satisfactory sealing can be ensured even when there is surface contact between the opening/closing portion and the aperture without requiring additional material, such as a rubber. Additionally, the number of components can be reduced, and with the omission of flexible material, such as rubber, the manufacturing costs can be reduced.

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Cited by

DE102010030222B3; DE102007001757A1; DE102007001757B4; EP1731075A3; US7487570B2; WO2011157575A1; WO2007020136A1; WO2007017320A1; WO2022269237A1

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