

Title (en)

Motor, fan and filter arrangement for a vacuum cleaner

Title (de)

Motor, Ventilator und Filteranordnung für einen Staubsauger

Title (fr)

Moteur, ventilateur et agencement de filtre pour un aspirateur

Publication

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Application

EP 10163808 A 20070418

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Abstract (en)

The present invention provides a vacuum cleaner comprising a motor, fan and filter arrangement, wherein said arrangement comprises: a motor; a fan connected to an output shaft (12) of said motor and having an axial intake; and a filter; wherein the fan is arranged with its axial intake facing said motor; and the motor is housed within said filter; characterised in that : the vacuum cleaner is a stick vac having an upper body portion, a lower body portion, a floorhead, a handle and a dust filtering portion comprising said motor, fan and filter arrangement, and wherein said upper body portion is pivotable relative to said lower body portion about an axis of dust filtering portion.

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Citation (applicant)

- EP 1523916 A2 20050420 - BLACK & DECKER INC [US]
- EP 1752076 A1 20070214 - BLACK & DECKER INC [US]

Cited by

US10842330B2; US9986880B2; US10674884B2; US11241129B2; US10568477B2; US10729294B2; US9962048B2; US10750913B2; US10016105B2; US10702113B2; US10016104B2; US10631693B2; US11950745B2; US10791889B2; US11229334B2; US11826007B2; US12075962B2; US10537216B2; US10722086B2; US10765278B2; US11445875B2; US11737621B2; EP3320821A1; US10105027B2; US10165914B2; US10980382B2; US9962047B2; US9980616B2; US10085604B2; US10159391B2; US10165915B2; US10165913B2; US10238249B2; US10244906B2; US10258208B2; US10327610B2; US10426302B2; US10506904B2; US10624512B2; US10813510B2; US11160425B2; US11202539B2

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