

Title (en)  
Suction cleaner.

Title (de)  
Schmutzsauger.

Title (fr)  
Aspirateur.

Publication  
**EP 0415076 B1 19950111 (DE)**

Application  
**EP 90114232 A 19900725**

Priority  
DE 3928313 A 19890826

Abstract (en)  
[origin: JPH03139319A] PURPOSE: To substantially extend the service life of electric and electronic parts by arranging the parts in the cooling air intake passage of an electric motor. CONSTITUTION: One electric motor 31 is installed in such a state as secured between a lower base plate 32 and an upper fixing plate 33, and an electric or electronic part 16 is provided in such a state as secured to a substrate 15 within a flow box. Also, the intake passage 17 and the exhaust passage of the electric motor cooling air are formed. In this case, the electric motor 31 is formed as commutator-less DC type and at least one substrate 15 is laid within the intake passage 17 of the electric motor cooling air, together with parts mounted thereon. Also, the air intake passage 17 runs approximately like a U-shape and is formed to have a first side part 2, a horizontal part connected thereto and a second side part 13 connected to the horizontal part in a flow order. In addition, the second side part 13 is connected to the upper part of the electric motor 31 airtightly. Accordingly to this construction, the service life of electric and electronic parts can be substantially extended.

IPC 1-7  
**A47L 9/28**

IPC 8 full level  
**A47L 9/00** (2006.01); **A47L 9/28** (2006.01); **H02K 9/00** (2006.01); **H02K 29/00** (2006.01)

CPC (source: EP KR US)  
**A47L 9/28** (2013.01 - KR); **A47L 9/2842** (2013.01 - EP US)

Cited by  
EP3409166A1; EP0510597A1; EP3398498A1; WO2017137329A1; WO2010042563A3; US8286300B2; US8312590B2; US8615845B2; US9238451B2; US10618502B2

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DOCDB simple family (publication)  
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