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E. O. H. HANSSON

2,287,474

VACUUM CLEANER

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Fig. 1

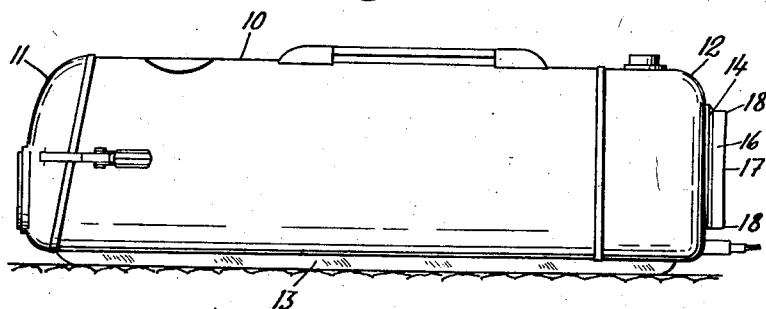


Fig. 2

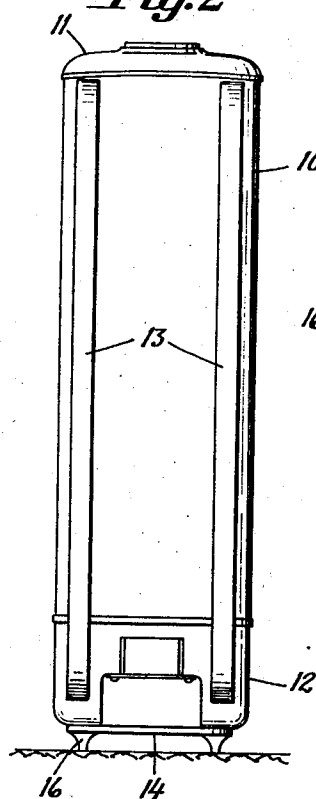
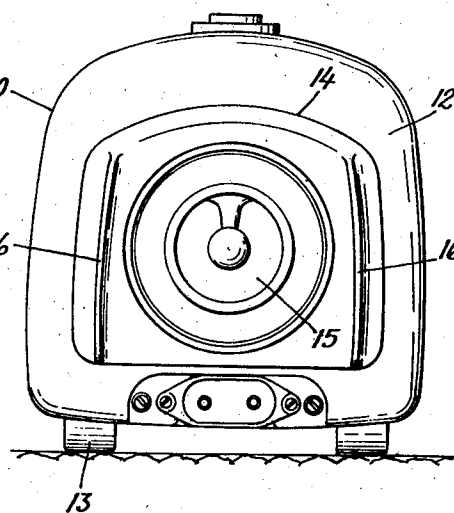


Fig. 3



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VACUUM CLEANER

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In Sweden December 8, 1938

1 Claim. (Cl. 15—16)

The present invention relates to a vacuum cleaner of the horizontal type the casing of which encloses a motor-fan unit and a dust collector. In operation, such a vacuum cleaner rests in a horizontal position on for instance wheels or runners. Under certain conditions it is, however, desirable to place it in a vertical position, for example, when emptying the dust collector or storing the cleaner in a closet. When placed in this manner, vacuum cleaners of hitherto known constructions are often very unstable, especially if the support is soft or uneven. This drawback is eliminated by the present invention which, in the main, is characterized by elongated ribs or like supporting members extending from the rear end of the cleaner casing in a substantially axial direction, suitably grouped in a symmetrical manner round the axial centre line of the casing and running along the rear surface of the casing. In a suitable embodiment of the invention the supporting ribs are formed integral with the rear hood of the cleaner casing or if desired with a part which is removably connected with said hood, and which has formed therein the air outflow orifice of the cleaner.

The accompanying drawing illustrates an embodiment of the invention, and in the following description of this embodiment other characteristics of the invention will be set forth.

Fig. 1 is a side view of a vacuum cleaner provided with supporting members according to the invention.

Fig. 2 is a view of the underside of the cleaner, the latter being placed in a vertical position on the supporting members according to the invention.

Fig. 3 is a view of the rear end of the cleaner shown in Figs. 1 and 2, but on a larger scale.

In the drawing the casing of the vacuum cleaner is designed by 10. To its forward and rear ends hoods or the like 11 and 12, respectively, are attached. On the underside of the casing there are arranged runners 13 on which the cleaner rests when in operation. In the embodiment shown the rear hood 12 of the casing is provided with a member 14 fastened thereto in any suitable manner and formed with an air outflow orifice 15. This member 14 may be a casting of aluminum or the like, while the hood 12 may consist of Bakelite or some similar material. According to the invention the rear end of the cleaner is formed with special supporting mem-

bers which extend from said end in a substantially axial direction and are suitably grouped in a symmetrical manner round the axial centre line of the casing. In the present case the supporting members consist of two elongated ribs 16 cast integral with the member 14, one on each side of the air outflow orifice 15. To secure the largest possible supporting surface the ribs 16 are placed as far outward on the sides of the cover 14 as possible. If desired, the ribs may also be placed on the end surface of the hood 12 at the sides of member 14 in order to give a still larger supporting surface to the implement in the vertical position. As appears from Fig. 3 of the drawing, the ribs are somewhat bow-shaped, thus closely following the contour of the casing. As will be seen from Fig. 1, the outer edge of each supporting rib 16 is slightly dished inwardly, as indicated at 17 whereby each rib thus possesses two fulcrums 18 for supporting the cleaner when in the vertical position, namely one at each end of the rib. Such a shape of the supporting ribs obviously still further improves the stability of the cleaner, when it is placed on a soft or uneven surface. If desired, more than two supporting combs may be provided.

While I have shown one more or less specific embodiment of my invention, it is to be understood that this has been done for purposes of illustration only and that the scope of my invention is not to be limited thereto, but is to be determined by the appended claim.

Having thus described my invention, what I claim is:

In a vacuum cleaner, a hollow casing provided with a dust bag opening at one end, means for supporting said casing on a horizontal surface with said opening in a substantially vertical plane, a casting secured to the opposite end of said casing and formed with an outlet opening and a plurality of symmetrically located ridge-like members cast integral with said casting and projecting therefrom on either side of said outlet opening for providing a stable support on the horizontal surface for said casing in an upright position with said dust bag opening in a horizontal plane and for spacing said outlet opening from the supporting surface, whereby air discharged through said outlet opening may escape between said members.

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