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ELECTRIC VACUUM CLEANER
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Fig. 1.

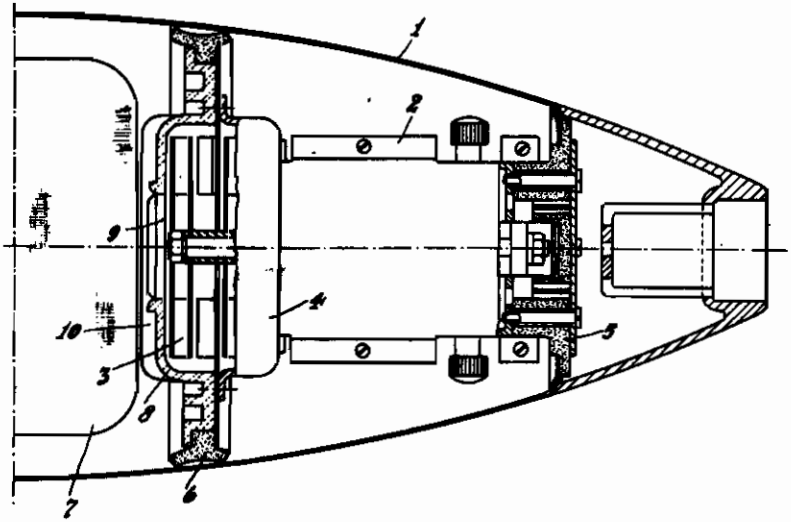
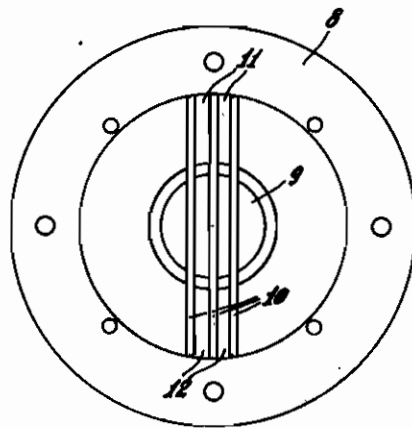


Fig. 2.



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ALIEN PROPERTY CUSTODIAN

ELECTRIC VACUUM CLEANER

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The invention relates to an electric vacuum cleaner the fan or fans of which being mounted in a fan housing which is closed by a cover and whereby the air is sucked through an aperture in the cover of said fan housing and through the dust collector which is arranged before the said aperture. The invention relates more especially to the construction of such a cover for a fan housing of an electric vacuum cleaner.

With the well-known vacuum cleaners of this type it appeared that it often occurred that the dust collector was sucked into the aperture in the fan housing cover so that the said aperture was closed. It has been tried already to remove this drawback by filling the aperture in the cover with a grid. Also in that case it still occurred that said aperture was entirely closed by the dust collector, which was sucked against said grid.

The cover according to the invention is characterized in that in front of the aperture in the cover a number of protruding ribs are arranged which, even if the dust collector is sucked against said ribs, let free lateral air channels, so that the suction action is always maintained. The ribs are preferably arranged parallel to each other at a small mutual distance and the cover with said ribs is mounted in a vertical position on the fan housing.

The invention is elucidated by an embodiment along the lines of the drawing.

Figure 1 is a section of a vacuum cleaner which is provided with the fan housing cover according to the invention.

Figure 2 is a front view of said cover.

In the drawing 1 is the vacuum cleaner housing in which an electromotor 2 with a fan 3, contained in a fan housing 4, is resiliently supported by a rubber support 5 and a rubber ring 6, which is arranged around the fan housing. In front of the fan housing 4 the dust collector 7 is arranged. The fan housing 4 is closed by the cover 8 according to the invention. This cover 8 has a central suction aperture 9 and before said aperture there are some, in the present case three, parallel ribs 10, protruding from the front of the aperture 9.

If during the operation the dust collector 7 is sucked against the cover 8 always two channels 11 and 12 will be left free at either side of the aperture 9, through which channels the sucked-in air may enter. The ribs 10 are preferably arranged vertically, since in that case the dust collector, becoming flat if the vacuum cleaner motor is switched off, will slide down along the ribs 10, so that there is no possibility, as with horizontally arranged ribs, that the dust collector would be kept pending between the ribs by which an air channel would yet be closed.

Preferably the cover is made of Bakelite or a similar artificial resin press material. Said material has the advantage that a smooth surface is obtained which is not subject to alterations so that the very small friction coefficient is maintained which by nature is present.

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