

Feb. 13, 1962

G. F. CARABET
SUCTION CLEANERS

3,020,577

Filed June 29, 1960

2 Sheets-Sheet 1

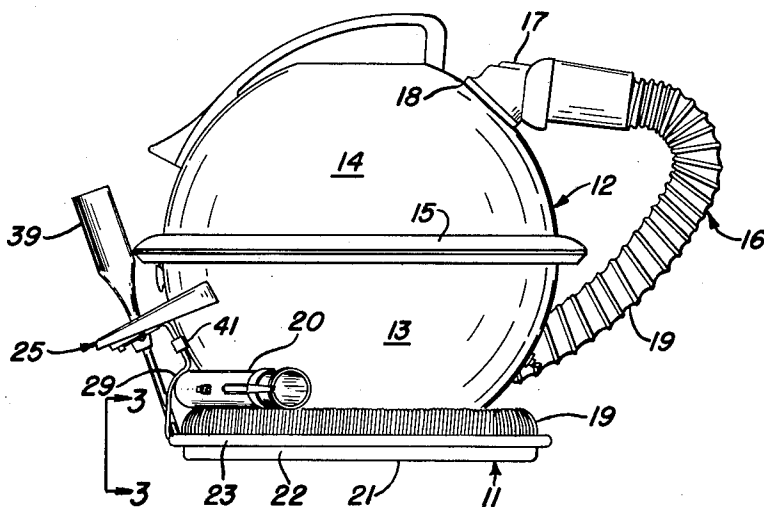


Fig. 1

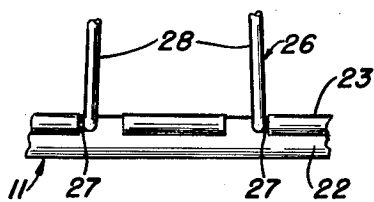


Fig. 3

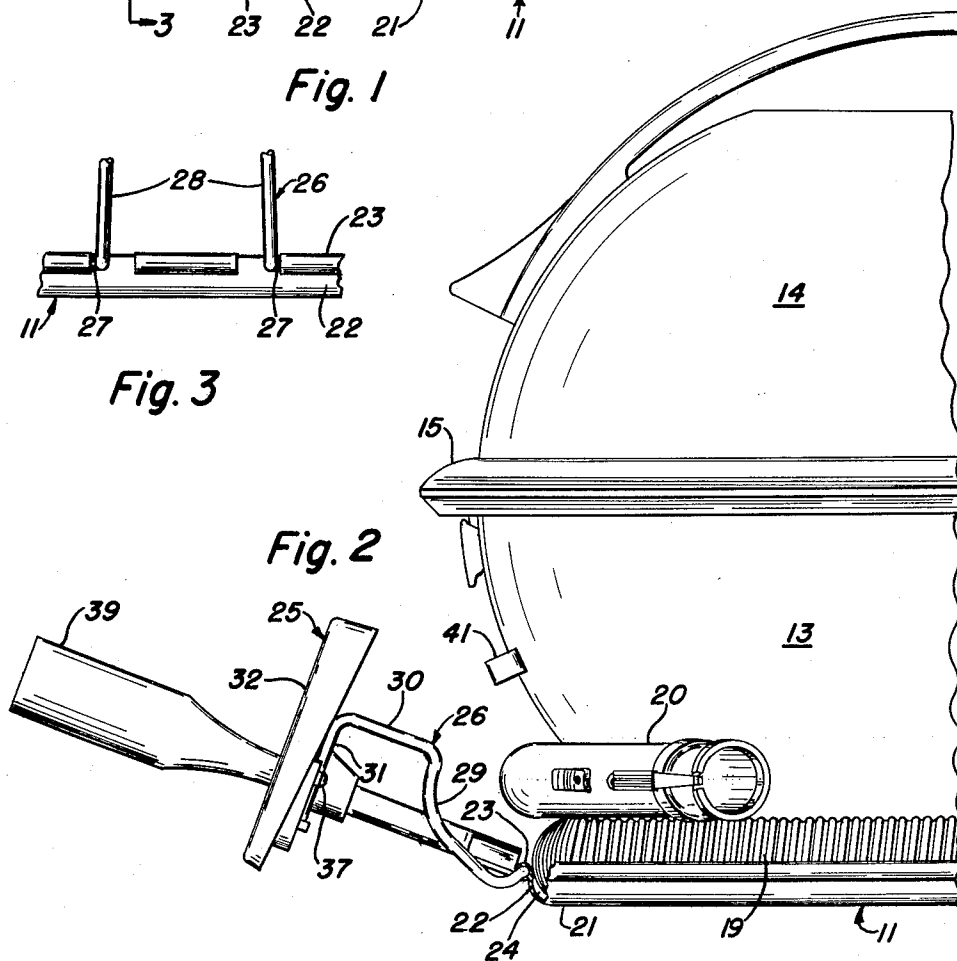


Fig. 2

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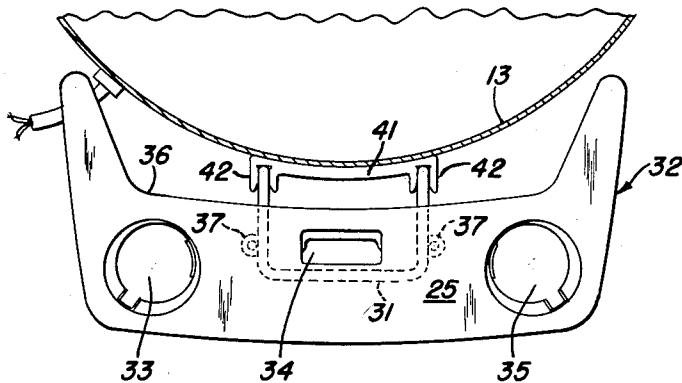


Fig. 4

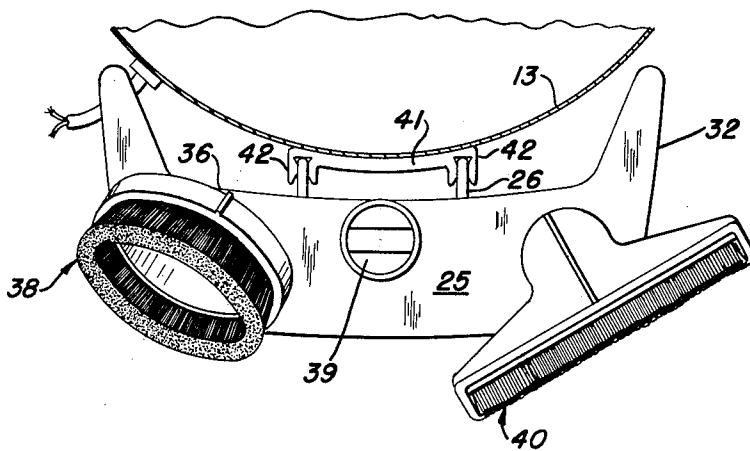


Fig. 5

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3,020,577

SUCTION CLEANERS

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2 Claims. (Cl. 15—323)

The present invention relates to suction cleaners and more particularly to a device for retaining the hose in coiled condition about the cleaner body and which also provides a holder for the tools used with the cleaner.

An object of the invention is to provide a suction cleaner having movably mounted support means to permit coiling the hose about the cleaner body, retain the hose in coiled condition and also store the accessories used with the hose. Other objects and advantages of the invention will become apparent from the following description and drawings, wherein:

FIGURE 1 is an elevational view of a canister type suction cleaner showing the support means in position to maintain the hose coiled about the cleaner and a cleaning tool carried by the support means,

FIGURE 2 shows the retaining means in released position to permit uncoiling the hose from the cleaner body,

FIGURE 3 is a view along the line 3—3 in FIGURE 1 showing the means for attaching the retaining means to the cleaner body,

FIGURE 4 is a top view of the tool holder, and

FIGURE 5 shows cleaning tools supported in the holder.

The embodiment of the invention herein disclosed comprises a cleaner body including a base 11 on which is supported a substantially spherical shaped casing 12 having a lower portion 13 to which is suitably hinged an upper section 14. An annular furniture guard 15 surrounds the meeting edges of the upper and lower casing sections. A hose 16 has one end 17 removably attached to the inlet 18 in the casing for communication with an unshown filter bag. A motor-fan unit is positioned within the casing 12 to provide a suction air stream in the hose 16 for cleaning surfaces in a manner well known in the art. The hose 16 includes a flexible portion 19 and terminates in a coupling 20 for removable attachment of the tools required for particular cleaning operations.

The base 11 of the cleaner body has a bottom wall 21 from which upwardly projects an annular side wall 22 terminating in a rolled bead 23. The bottom wall 21 and side wall 22 of the base cooperate with the adjacent arcuate wall of the casing lower section 13 to provide a recess 24 therebetween and form a support in which the hose 16 may be coiled for storage.

A tool holder 25 is pivotally mounted on the base 11 of the cleaner and includes a one piece wire frame 26, the terminal ends 27 of which are offset and inserted in the hollow bead 23 of the base 11 as shown in FIGURE 3. The wire frame has two legs 28 which project upwardly from the offset ends 27 in spaced relation to the recess 24 and blend into an arcuate section 29 extending inwardly toward the adjacent casing section 13 at which point portions 30 of the legs project upwardly along the casing section 13 and then extend laterally and outwardly into a U-shaped frame portion 31 disposed in one plane.

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Resting on the U-shaped portion 31 of the wire frame 26 is a platform member 32 provided with three openings 33, 34 and 35 to receive cleaning tools, and the inner marginal edge 36 of the platform conforms substantially to the arcuate surface of the casing lower section 13. The member 32 is rigidly secured to the wire frame 26 by a plurality of screws 37 which engage the wire frame portion 31 and are threaded into the member 32. In FIGURE 5 several cleaning tools are shown supported on the member 32 and include a dusting brush 38, crevice tool 39 and furniture brush 40.

The tool holder 25 is attached to the cleaner body by squeezing the lower leg portions 28 of the wire frame 26 toward each other and inserting the offset ends 27 into the hollow bead 23 whereby the holder is rotatably supported on the cleaner base 11. In order to releasably lock the tool holder 25 in position to retain the hose 16 coiled about the cleaner body a latch member 41 is secured to the casing section 13 and is provided with spaced resilient latches 42 which receive the portions 30 of the wire frame 26 to secure the latter along the casing section 13.

When it is desired to store the cleaner hose 16 the latter may be disconnected from the cleaner inlet 18 or remain attached as shown in FIGURE 1 and the operator grasps the member 32 to release the frame portions 30 from the latches 42 whereby the tool holder 25 is pivoted about the offset ends 27 to the position shown in FIGURE 2 to thereby expose the recess 24 and the bottom wall 21 of the cleaner base 11. The hose 16 is then coiled about the casing section 13 and is arranged in the recess 24 whereby the base bottom wall 21 and annular side wall 22 form a support for the first coil of the hose. The coiling of the hose 16 is continued and when completed the operator grasps the tool holder member 32 and pivots the wire frame 26 upwardly to its latched position shown in FIGURE 1. In this position the arcuate portion 29 of the wire frame 26 engages the uppermost coil of the hose 16 to retain the latter on the cleaner body. The cleaning tools 38, 39 and 40 are removably supported on the member 32 by the peripheral edges of the openings 33, 34 and 35.

While I have shown and described but one embodiment of my invention, it is to be understood that this embodiment is to be taken as illustrative only and not in a limiting sense. I do not wish to be limited to the particular structure shown and described but to include all equivalent variations except as limited by the scope of the claims.

I claim:

1. In a suction cleaner of the type having a flexible hose and adapted to use cleaning tools: a cleaner body having a side wall, means projecting from said side wall and cooperating therewith to define a recess having a vertically disposed open mouth through which the hose is removably coiled in said recess to store the hose, retaining means including frame means projecting upwardly from said projecting means into engagement with the hose, when stored, to maintain the latter in said coiled condition in said recess, tool storage means on the upper portion of said frame means and arranged above the coiled hose to removably support cleaning tools adjacent said body side wall, and means mounting said frame means on said projecting means for movement of said

frame means and tool storage means outwardly of said body side wall to hose release position whereby the hose may be uncoiled from said recess.

2. In a suction cleaner as described in claim 1, said mounting means movably supporting the lower portion of said frame means on said projecting means, and said tool storage means being arranged with respect to said frame means and said mounting means to maintain the tools supported on said storage means when said retaining means is in said hose release position.

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