Feb. 7, 1933. R. C. THOMPSON 1,896,128

CLOTHES BRUSHING AND CLEANING APPLIANCE

Filed June 8, 1931 2 Sheets-Sheet 1

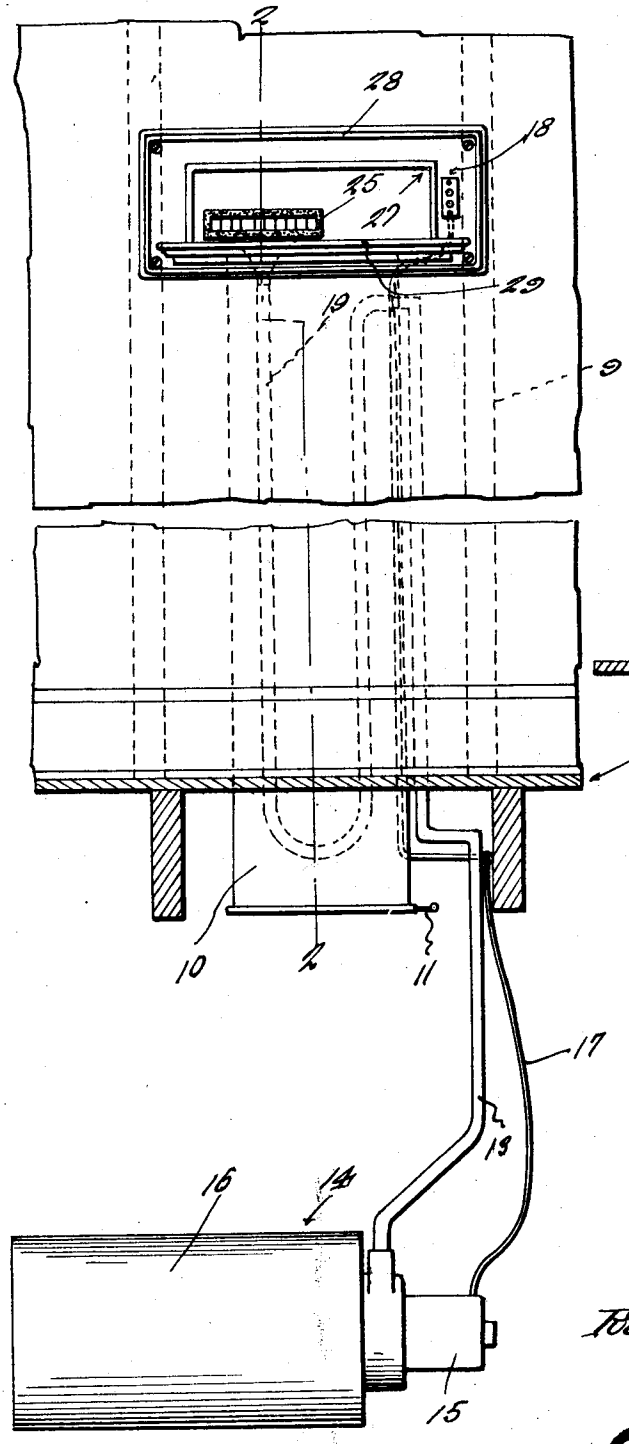


Fig. 1.

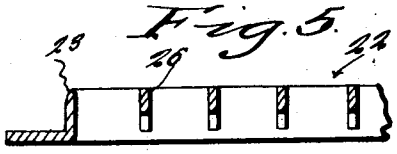


Fig. 5.

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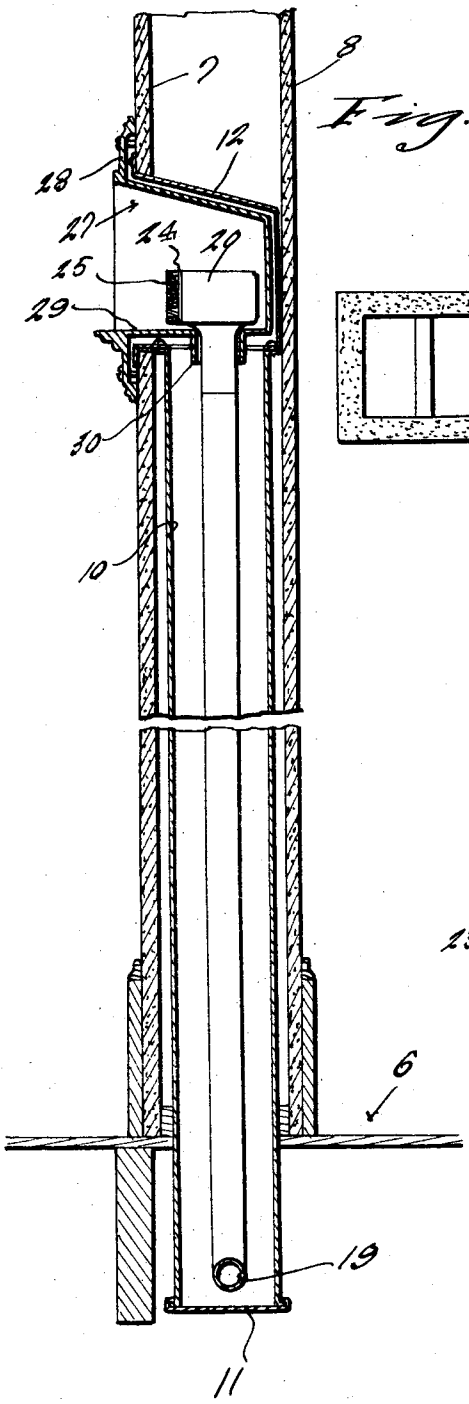


Fig. 2.

Fig. 3

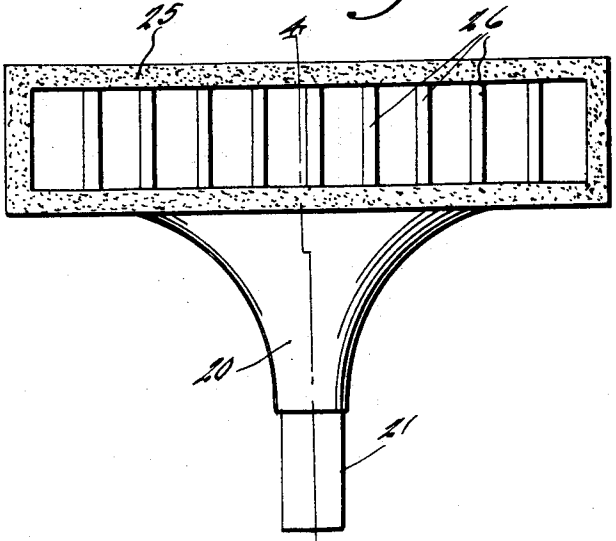
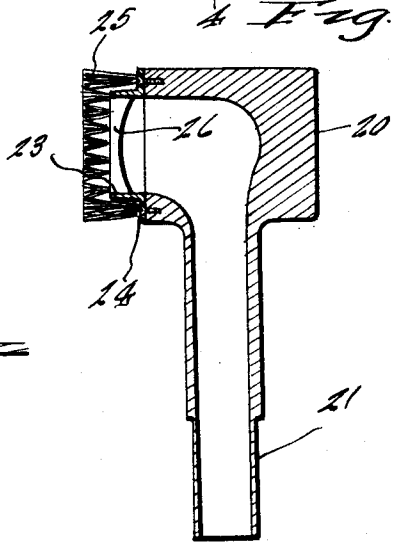


Fig. 4.



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UNITED STATES PATENT OFFICE

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CLOTHES BRUSHING AND CLEANING APPLIANCE

Application filed June 8, 1931. Serial No. 542,977.

This invention relates to an improved household or domestic electrical cleaning appliance characterized primarily by a brush equipped suction cleaner.

The invention has more particular reference to a structure which is adapted to be built in the wall within the vicinity of a clothes closet, the same being constructed to operate somewhat in the same manner as a suction or vacuum cleaner.

More specifically stated, the structure is characterized by a casing and housing arrangement built into the wall, an extensible and retractible flexible suction hose, a detachable brush, and an electrical dirt accumulating and collection suction appliance.

The particular details selected for utilization in the novel assembly of parts will become more readily apparent from the following description and drawings.

In the drawings:

Figure 1 is fragmentary view in section and elevation showing the complete assembly with the brush retracted to an out-of-the-way storage position.

Figure 2 is a vertical section on the line 2—2 of Figure 1.

Figure 3 is an enlarged front elevation of the brush accessory.

Figure 4 is a section on the line 4—4 of Figure 3.

Figure 5 is a fragmentary section of the grid-like brush carrier frame.

In the drawings, in Figure 2, the floor is represented by the numeral 6 and spaced walls are indicated by the numerals 7 and 8. An opening is cut through the wall 7 so as to permit the principal parts of the assembly to be located in the space between the walls 7 and 8 and between the vertical studding 9 as represented in dotted lines in Figure 1.

The numeral 10 designates a perpendicular tubular receptacle having a slidable bottom closure or plate at 11. This hose receptacle 10 is attached at its upper end to an open front supporting casing 12 of appropriate proportions and shape. As seen in Figure 1, the section pipe 13 is secured at its upper end to the upper end portion of the receptacle 10 while it is secured at its lower end to the dirt and dust accumulating and collection device 14. This is in the nature of a suction or vacuum cleaner and located in the cellar or some other convenient point to facilitate cleaning.

It comprises a motor 15 and an appropriate housing 16. Incidently the electric wires are represented by the numeral 17 and extend up through the studding where they are connected with an appropriate control switch 18. This switch is conveniently located to facilitate operation of the appliance.

The appliance proper comprises a flexible hose 19 of appropriate length which is coiled and connected in the receptacle 10 as shown in dotted lines in Figure 1. A suitably shaped head 20 is provided with a neck 21 fitted telescopically in the upper end of the hose, and this head has a substantially rectangular mouth portion on which the bristle carrying frame 22 is mounted. This frame comprises a rim 23 having an attaching flange 24 on which the brush bristles 25 are mounted as shown in Figures 3 and 4.

In addition, the frame is provided with spaced parallel cross bars 26 forming a guard to prevent the clothing from being sucked into the head 20. The intake end of the hose is fastened to the suction pipe 13 as represented in dotted lines as shown in Figure 1. In actual practice the hose is about seven feet long and made of appropriate flexible material so that it can be extended and contracted expeditiously and with efficiency.

The numeral 27 designates the brush hanger which is in the form of a box-like insert fitted telescopically within the casing 12 and having its outer open face formed with a marginal attaching flange 28. This flange is made ornamental to provide an appropriate facing. The bottom wall 29 of the insert serves as a shelf and is provided with an aperture and a depending guide 30 through which the hose is withdrawn and replaced.

This ornamental facing, hanger, or insert 27 is of sufficient proportions to permit the hand to be placed in to grasp the brush and to pull it out for use. Obviously when the brush and hose is extended and the switch turned on the suction cleaner 14 is set into operation so as to permit the brush to be ma-

nipulated in a suitable manner for brushing the clothing and to allow the dust and dirt and extraneous particles to be sucked into the head 20 through the guards 26 to be conveyed by the hose 19 and pipe 13 into the collection receptacle 16.

The gist of the invention is found in a simple and economical arrangement of parts including a built in casing structure which has its major portions confined and concealed between the walls 7 and 8 and conveniently supported from the studding whereby to permit the device to be installed expeditiously satisfactorily in houses without requiring extensive alteration. The idea of using an ornamental hanger 27 constituting a shelf and supporting the brush when not in use is a desirable feature of the invention because of the ornamental and utilitarian features thereof. Then too, the idea of providing a protective receptacle 10 for accommodating the flexible hose 19 when the latter is not in use is an important structural distinction. Then too, the remote location of the suction cleaner 14 in the cellar or at some convenient point to facilitate cleaning and extraction of dirt is a worthy feature of importance.

The detachable brush-equipped fitting or head 20 is a novel contribution to the success of the device as a whole. Then too, the arrangement utilizing a mounting frame 22 to carry the brush bristles and providing a guard is a further advantage. All told, the parts have been carefully selected and organized to promote efficiency, reliability, and to fulfill the requirements of a structure of this class in a highly satisfactory manner.

It is thought that the description taken in connection with the drawings will enable a clear understanding of the invention to be had. Therefore, a more lengthy description is thought unnecessary. While the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

I claim:

In combination, a wall structure including a pair of spaced wall units, one of said wall units having an opening therein, a casing disposed in the opening to project into the space between the wall units, said casing having an open front and an opening in the bottom thereof, a receptacle, depending from the casing and in the space between the wall units, said receptacle communicating with the bottom of the casing, a wall receptacle disposed within the casing and being provided with a depending tubular guide and extending through the opening in the bottom of the casing, said wall receptacle being open at its front, a suction line conduit connected from the outside to the depending receptacle adjacent the upper end thereof, a suction hose slidable through the tubular guide and being equipped at its outer end with a brush, said hose being secured at the end within the depending receptacle to the adjacent end of the suction line.

In testimony whereof I affix my signature.

RALPH C. THOMPSON.