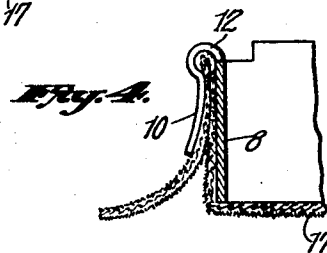
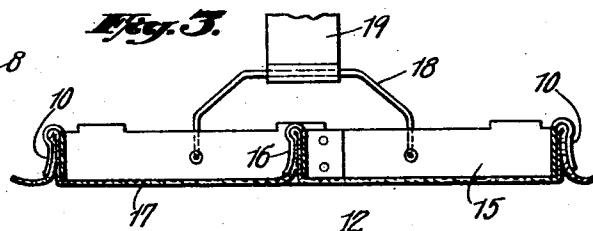
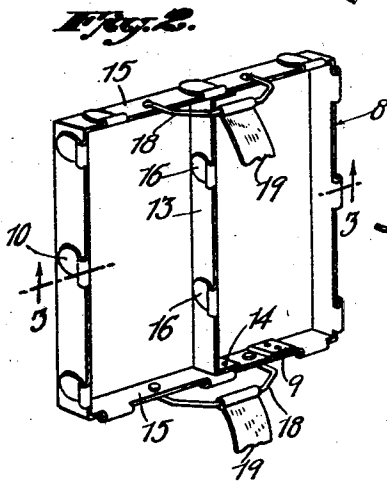
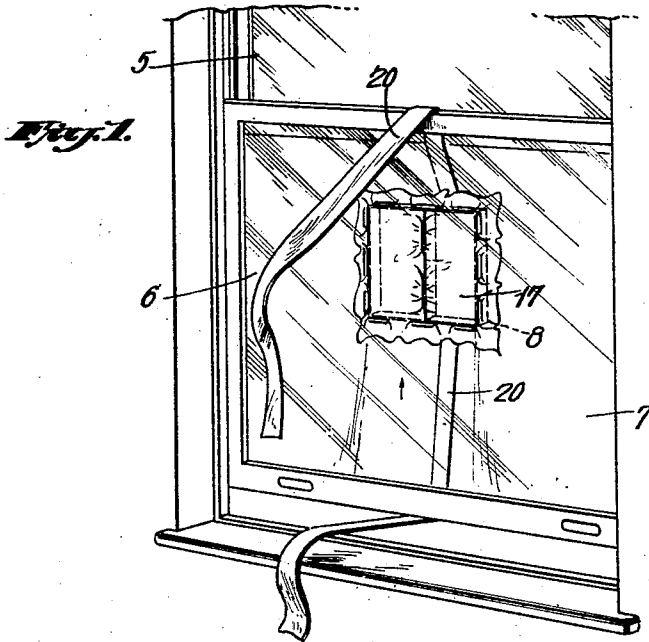


April 9, 1929.

V. SCHARSCHMIDT
SAFETY WINDOW CLEANING DEVICE

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SAFETY WINDOW-CLEANING DEVICE.

Application filed December 29, 1927. Serial No. 243,368.

This invention relates to window cleaning devices and in particular to one adapted for cleaning the outer side of a window without necessitating sitting out on the window sill or leaning out of the window.

A particular object of the invention is to provide a device which may be manipulated vertically of the window sash to clean the outside of the pane quickly and thoroughly.

A still further object of the invention is to provide a towel holding frame which is provided at its opposite edges with manipulating straps or tapes whereby the frame may be moved back and forth across the window to clean the same, the frame being of light construction and being particularly adapted to the purpose to which it is applied.

A still further object of the invention is to provide a mop device which may be used to swab the outside of the window pane and which is provided with an extended handle portion whereby the necessity of sitting outside the window is eliminated.

To enable others skilled in the art to fully comprehend the underlying features of my invention that they may embody the same in the various modifications in structure and relation contemplated, a drawing depicting a preferred form has been annexed as a part of this disclosure and in such drawing, similar reference characters denote corresponding parts throughout all the views, of which,

Figure 1 is a view in perspective of a part of a window showing the position my improved cleaning device would occupy in connection with the lower sash, the tapes thereon being in position to be manipulated to cause movement of the window cleaning frame back and forth across the outer side of the pane.

Figure 2 is a view in perspective of the towel holding frame which forms the most important feature of my invention.

Figure 3 is a cross section taken through the cleaning device, the section being taken on the line 3—3 of Figure 2, and the cleaning towel being shown in position therein.

Figure 4 is an enlarged fragmentary section taken through one edge of the holding frame adjacent one of the hooks or clips to show how the toweling is inserted under the clip and held in position across the bottom of the frame.

Referring to the drawings in detail, 5

indicates a portion of the upper sash and 6 the lower sash of a window construction, the sashes holding the usual window panes 7, the cleaning of which on the outer side is carried on through the use of my improved window cleaning device.

It is well known that in the cleaning of windows on the outside surface, necessitates the person cleaning the window sitting out on the window sill and in many instances, the windows are at a dangerous height and housewives accidentally fall off the window ledge and are injured, and with a view to cleaning the exterior side of the pane without getting outside the window or sitting upon the window sill, I have provided a towel holding frame 8 which consists of a rectangular piece of sheet metal in strip form having its ends overlap as at 9 and riveted together to form a rectangular frame. The frame is punched to provide overturned clips 10 which, at their upper extremities joining the edge of the frame 8, are bulged as at 12 to provide a space in which the toweling may be imprisoned, as will be hereinafter explained. The frame 8 is provided with a center piece or brace made of the same material and indicated by the numeral 13, the same being turned over at its ends 14 and secured in any suitable manner, such for instance, as by riveting, to the ends 15 of the frame and disposed substantially midway between the sides thereof.

This center piece or brace 13 is also punched to provide clips 16 and the purpose of the clips 10 and 16 is to allow an absorbent towel 17 or wiping cloth to be pushed thereunder to be releasably held across what might be termed as the bottom of the frame. This is illustrated in Figure 3 wherein the toweling 17 has been forced into the clips 10 and 16 and is held thereunder so that a smooth towel surface is presented to the window pane surface to be cleaned.

In order to manipulate the frame vertically of the window, I have secured to the ends thereof, the wire bracket or handle 18 which may be suitably shaped to accommodate the ends 19 of tapes 20. It will be noted that these brackets or handles are rigidly secured to the ends 15 of the frame 8 and are disposed at right angles thereto so that when the frame is positioned outside of the window as shown in Figure 1, and the tapes are drawn over the top and under the bottom of the sash 6, the action

of the tapes on the wire bracket or handles 18 will be to force the frame 8 against the outside surface of the pane with the result that during the reciprocation of the frame 5 vertically of the window, the toweling will thoroughly cleanse the outer surface of the pane as satisfactorily as if pressure was applied by the arm of the individual cleaning the window.

10 It is quite evident, therefore, that I have provided a towel or absorbent cloth holding frame which may be positioned exteriorly of a window and through the medium of suitable tape members may be manipulated 15 vertically of the window pane and exteriorly thereof by a person standing in the room, thus eliminating any risk attendant in cleaning a window from the outside.

It is evident, therefore, that I have provided a device for the cleaning of the exterior of a window from the interior of the room, which can be made in few parts, and which will save time in the cleaning of the window due to the fact that the cleaning 25 and polishing device may be manipulated more rapidly than has been possible manually.

While I have illustrated and described my invention with some degree of particularity, 30 I realize that in practice various alterations therein may be made. I therefore reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit of the invention or the scope of the 35 appended claims.

Having thus described my invention what

I claim as new and desire to secure by United States Letters Patent is:—

1. A window cleaning device comprising a frame, a cloth stretched over said frame, brackets on the ends of said frame, a reinforcing member in said frame, clips on the frame and on the reinforcing member for 45 holding the cloth, and tapes secured to the brackets whereby the frame may be reciprocated across a window pane.

2. A window cleaning device comprising a frame, a bracket extending laterally from 50 each of two opposite sides of said frame, a cloth stretched over said frame at the sides thereof, clips arranged along the sides of the frame for holding the cloth in place upon the frame and tapes secured each at one end 55 to a respective one of the brackets, the other ends of the said tapes being free whereby they may be passed over the upper and lower edges of a window sash.

3. A window cleaning device comprising 60 a frame over which a cloth is stretched, the frame comprising side and end members, corresponding edges of the said members, at one side of the frame, all occupying a common plane and constituting the edges over 65 which the cloth is stretched, clip fingers extending from the opposite edges of the said members of the frame and having bends to receive and frictionally grip the margins of the cloth inserted therein, and means upon 70 the frame for the connection thereto of flexible tapes whereby the frame may be moved back and forth over the surface of a window pane.

In testimony whereof I affix my signature.
VIRGINIA SCHARSCHMIDT. [L. S.]