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S. FLEISCHMAN
WINDOW CLEANING DEVICE
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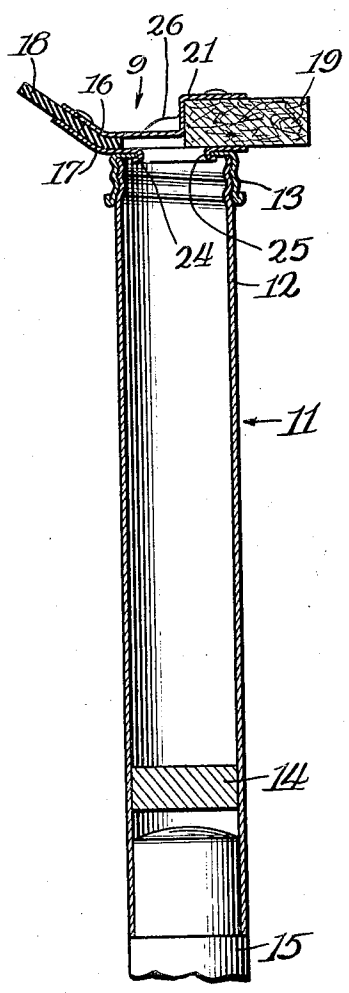
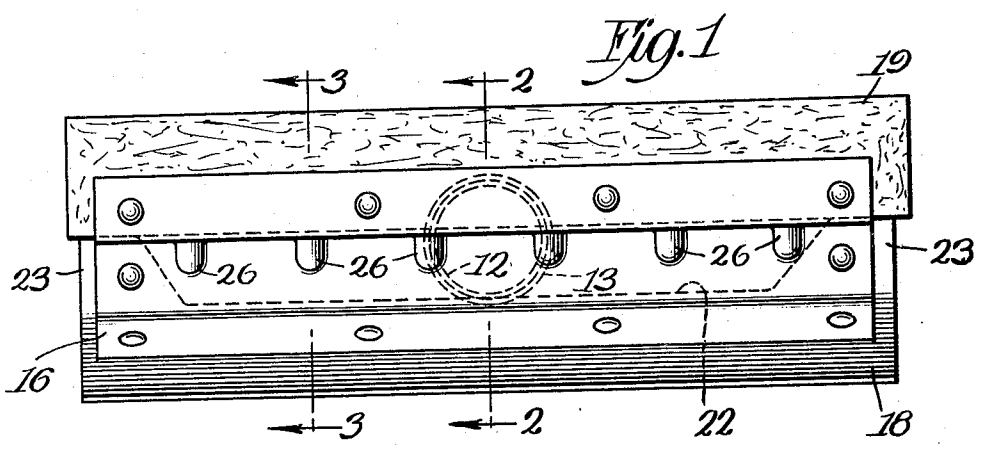


Fig. 2

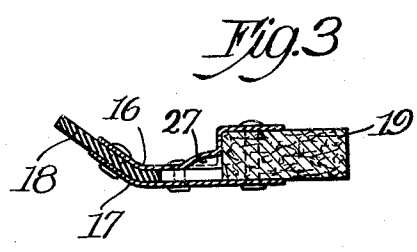


Fig. 3

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UNITED STATES PATENT OFFICE

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WINDOW CLEANING DEVICE

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My invention relates to a window cleaning device, and more particularly to a cleaning device for windows which is a complete self-contained unit.

5 The usual equipment used for cleaning windows is a squeegee, a sponge, and a bucket of water, and the use of this equipment entails the dipping of the hands in the cleaning water and ordinarily results in an excess of
10 water from the sponge which is wiped from the pane with the squeegee and runs down over the window sill.

15 The above disadvantages are overcome by the device of my invention in accordance with the general features of which I provide a self-contained unit in which the use of an excessive amount of water is avoided.

An object of the invention is to provide a new and improved window cleaner.

20 A further object is to provide a compact, self-contained unit having a wiper, a cleaner, and a supply of cleaning fluid.

A further object is to provide a cleaner which is rugged in construction and inexpensive to manufacture.

A further object is to provide a cleaner which does not require wetting the hands.

A further object is to provide a cleaner which avoids the excessive use of water.

30 Other objects and advantages will appear as the description proceeds.

Referring to the drawing, Fig. 1 is a plan view of the window cleaner embodying my invention,

35 Fig. 2 is a section taken on line 2—2 of Fig. 1, and,

Fig. 3 is a section taken on line 3—3 of Fig. 1.

40 The device comprises in general, a head 9, and a handle 11. The handle comprises a hollow tube 12, which is threaded at its upper end to receive a threaded cap 13, rigidly secured to the head. A stopper 14, is placed in the hollow tube a suitable distance from the
45 top to form a chamber which serves as a reservoir for a cleaning fluid. The lower end of tube 12 is adapted to receive a rod or extension handle 15 of suitable length to permit the user to reach all parts of a window. The head consists of an upper plate 16

and lower plate 17, having a substantially rectangular wiper of rubber or other suitable resilient material clamped therebetween. An absorbent cleaning strip or wiper 19 is clamped between the opposite side of the
55 plates. The strip 19 is made considerably thicker than wiper 18, and the upper plate is provided with an offset portion 21, to accommodate the thicker cleaning strip. The rubber wiper 18 has a cut-out portion 22 in the
60 portion which is clamped between the plates, leaving a longitudinal chamber extending substantially the length of the plates. The ends 23 of the rubber wiper are left intact to close the ends of the chamber, and prevent
65 the cleaning fluid from escaping. The lower plate 17 is provided with an aperture, the rim of which is crimped over a similar aperture in cap 13 for securing the cap to the plate, and at the same time providing a duct 25
70 interconnecting the chamber with the reservoir. It will be noted that the chamber extends along substantially the entire length of the cleaning strip 19. However, on account of the close spacing of the plates forwardly of the cleaning strip only a small portion
75 of the edge of strip 19 is in communication with the chamber. In order to increase the area of contact between the cleaning fluid and the cleaning strip, a plurality of beads 26, are formed in the upper plate 16, which provide cavities 27 for increasing the area of contact between the cleaning strip and the cleaning fluid.

85 In using the apparatus it is preferable to first wet the cleaning strip 19 by dipping it in water or other suitable cleaning fluid. The reservoir in the handle is then filled with the cleaning fluid and the device is ready for use. On account of the movement of the device in
90 use, the cleaning fluid will, from time to time, be applied to the cleaning strip 19 to keep it moist. The cleaning strip is first wiped over the surface of the window to be cleaned to loosen the dirt and just sufficient water is supplied to permit the dirt to be wiped from the
95 window by the rubber wiper or squeegee. In this way any excess of water is avoided which would otherwise be wiped to the lower edge of the window and run over the window sill. 100

The device obviates the necessity of wetting the hands in order to wash the windows, and adds greatly to the convenience and sanitation of window washing.

5 It will be understood that the embodiment of the invention herein described and illustrated is merely illustrative of the invention and that many modifications may be made therein without departing from the spirit and scope of the invention.

10 What I claim is new and desire to protect by Letters Patent of the United States is:—

15 A window cleaning device comprising a hollow handle serving as a reservoir for a cleaning fluid, a head mounted on the handle and consisting of an upper and lower plate, an absorbent cleaning strip clamped between the plates and extending from one side thereof, the upper plate having an offset portion to accommodate the cleaning strip, a plurality of beads in said offset portion forming fluid cavities adjacent the edge of the cleaning strip, the lower plate having an aperture extending into the reservoir and forming a fluid passage between the reservoir and the absorbent cleaning strip to keep the strip moist with the cleaning fluid.

25 In witness whereof, I hereunto subscribe my name this 29th day of November, 1929.

30 SAMUEL FLEISCHMAN.

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