

July 9, 1929.

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1,720,481

WINDOW CLEANER

Filed Sept. 7, 1928

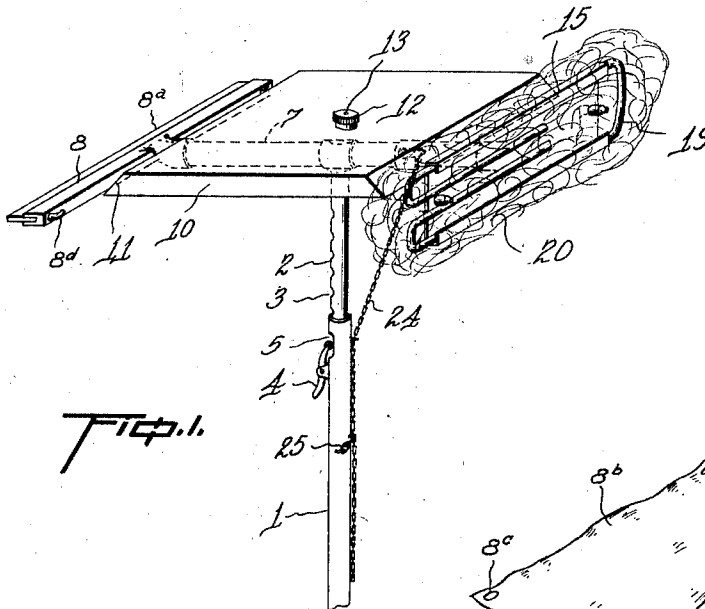


Fig. 1.

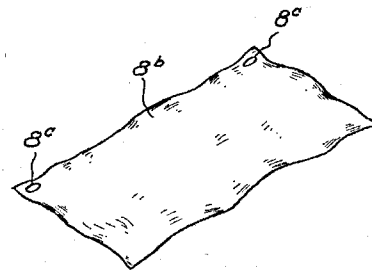


Fig. 4.

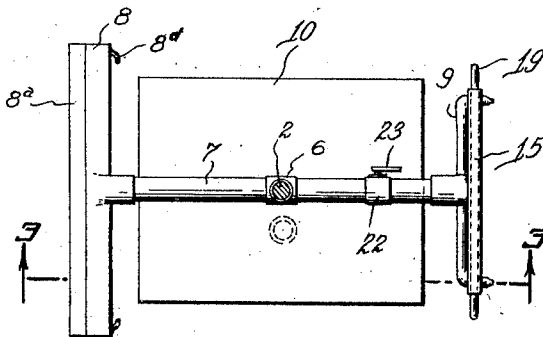


Fig. 2.

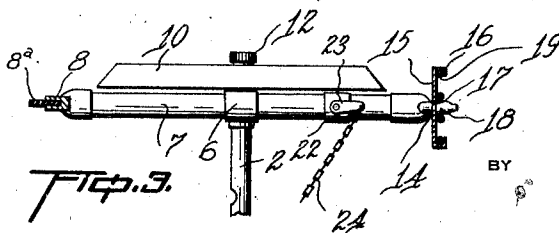


Fig. 3.

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WINDOW CLEANER.

Application filed September 7, 1928. Serial No. 304,492.

The present invention pertains to a novel window cleaner, and the principal object is to provide a device of this character capable of the two operations of washing the window and drying it. In present practice the washing or scrubbing operation is performed by a suitable brush, and the wiping is done by a separate device carrying a rubber strip known as a squeegee. As already indicated, the present invention combines these two articles at once and further provides a water tank in fluid communication with the mop member so that the latter need not be dipped. The elongated handle rod of the present construction may be adjusted in its length to meet various conditions.

The invention is fully disclosed by way of example in the following description and in the accompanying drawings in which—
Figure 1 is a perspective view of the upper end of the device;

Fig. 2 is a bottom plane view of the head thereof;

Fig. 3 is a section on the line 3—3 of Fig. 2; and

Fig. 4 is a perspective view of a fabric or chamois that may be used in lieu of a mop head.

Reference to these views will now be had by use of like characters which are employed to designate corresponding parts throughout.

In Fig. 1 is illustrated as embodying a telescopic handle rod including a tubular sleeve 1 and a stem 2 slidable therein. The stem has a series of notches 3 engageable selectively by a catch 4 fitted on the sleeve and passing through a slot 5 therein. The extensible handle rod may thus be adjusted to various lengths as desired.

On the upper end of the stem 2 is fitted a T-coupling 6 through which is passed a pipe 7 extending to substantially equal distances at both ends thereof. An elongated holder 8 is fitted to one end of the pipe 7 at right angles thereto and is designed to hold a rubber strip or squeegee 8^a for rubbing purposes. The squeegee 8^a may be replaced by the fabric or chamois 8^b illustrated in Fig. 4, having apertures 8^c to receive hooks 8^d on the holder 8.

To the other end of the pipe 7 is fitted a cross pipe 9 at right angles thereto and in fluid communication therewith. On the top of the pipe 9 is suitably mounted and supported a flat water tank 10 having sloped

edges 11 alongside the members 8 and 9 to facilitate assembly. This tank is in fluid communication with the side of the pipe 7 so that it carries the cross pipe 9, and the other side of the pipe 7 may be blind. The upper surface of the tank is provided with a filling plug 12 in which may be formed a vent 13. The ends of the cross pipe 9 are turned outwardly and shouldered as indicated by the numeral 14 in Fig. 3. A clip member 15 with its marginal channels 16 is slipped over the turned ends, by reason of its apertures 17, and is brought to bear against the shoulders 14. Nipples 18 are now threaded on the turned ends to clamp the clip against the shoulders 14. A bent wire rack 19 is provided in such a configuration as to be receivable between the channels 16 and to be held thereby. This rack is adapted to carry a mop head 20 as clearly shown in Fig. 1.

The side of the pipe 7 in communication with the cross pipe 9 is equipped with a normally spring closed valve 22. The handle 23 of the valve is attached to a chain 24 which is carried along the sleeve 1 and adapted to be held by a hook 25 on the sleeve. This valve obviously controls the flow of water from the tank to the mop head, and the rate of flow may be further determined by locking the chain 24 to the hook 25 at any suitable point.

In the operation of the device, water is supplied to the mop head in this manner, and the latter may be applied to the window to loosen the dirt thereon. No dipping of the mop is necessary as in present methods. When the dirt has been released and washed off, the water is wiped off the window by means of the squeegee 8. It will be evident that the squeegee is locked in operative position merely by turning the handle. The device may be adjusted to different lengths for meeting various conditions by properly locking the stem 2 in the sleeve 1.

Although a specific embodiment of the invention has been illustrated and described, it will be understood that various alterations in the details of construction may be made without departing from the scope of the invention, as indicated by the appended claims.

What I claim is:—

1. A window cleaner comprising a handle, a cross head secured thereto, a tank supported at said cross head and in communication therewith, a cross pipe at one end of said cross

head and in fluid communication with said tank through the cross head, said pipe having bent end shoulders and a clip laid against said pipe and having said ends passing there-
5 through, nipples mounted on said ends and clamping said clip against said shoulders, and a rack receivable in said clip and adapted to hold a mop head.

2. A window cleaner comprising a handle,
10 a cross head secured thereto, a tank supported at said cross head and in communication therewith, a cross pipe at one end of said cross head and in fluid communication with said tank through the cross head, said pipe
15 having bent end shoulders and a clip laid against said pipe and having said ends passing therethrough, nipples mounted on said ends and clamping said clip against said shoulders, and a rack receivable in said clip

and adapted to hold a mop head, and means 20 at the other end of said cross head for supporting a wiper.

3. A window cleaner comprising a handle, a cross head secured thereto, a tank supported at said cross head and in communication 25 therewith, a cross pipe at one end of said cross head and in fluid communication with said tank through the cross head, said pipe having bent end shoulders and a clip laid against said pipe and having said ends passing there- 30 through, nipples mounted on said ends and clamping said clip against said shoulders, and a rack receivable in said clip and adapted to hold a mop head, and a valve in said cross head between said tank and cross pipe. 35

In testimony whereof I affix my signature.

FRANK KILBERG.