April 23, 1929. A. SHAPIRO 1,710,079

WINDOW CLEANING DEVICE

Filed April 30, 1928

Fig. 1.

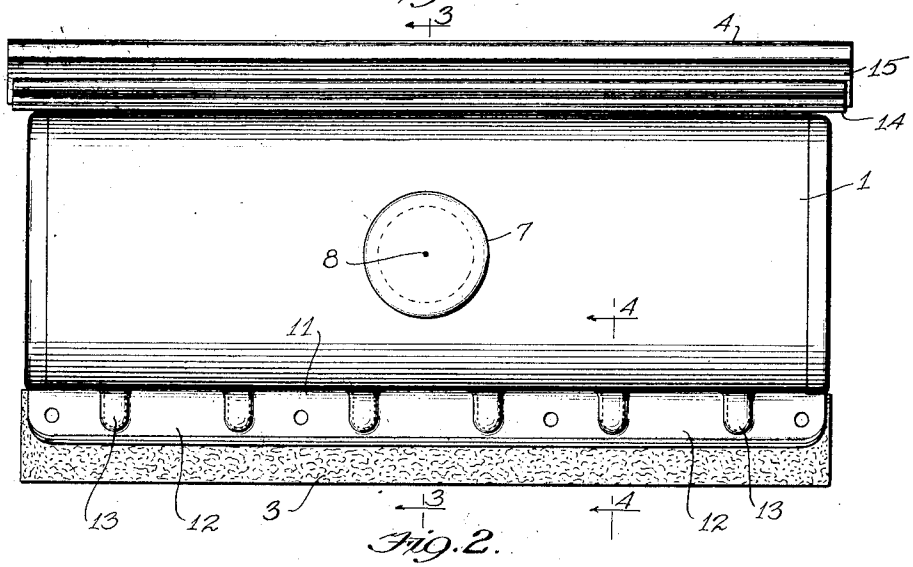


Fig. 2.

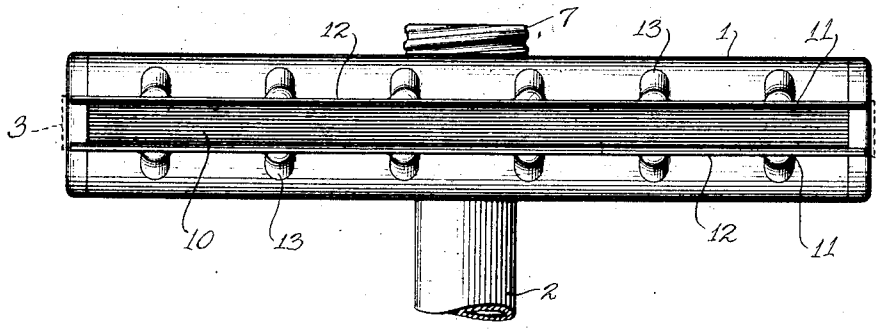


Fig. 3.

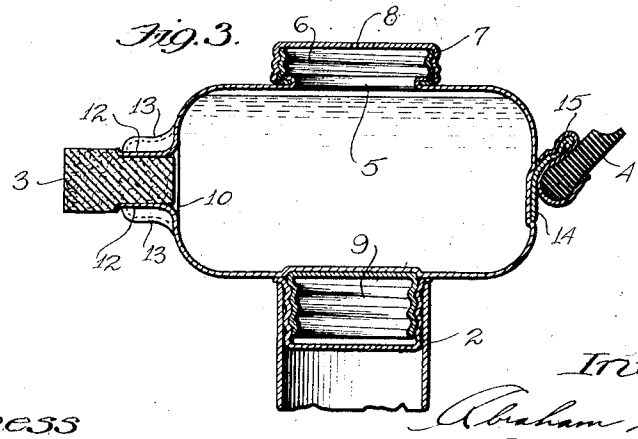
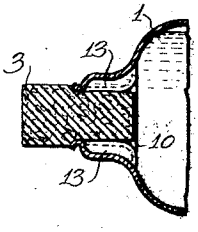


Fig. 4.



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UNITED STATES PATENT OFFICE.

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WINDOW-CLEANING DEVICE.

Application filed April 30, 1928. Serial No. 273,935.

The main objects of this invention are to provide an improved form of cleaning device for cleaning windows and other flat surfaces; to provide a cleaning device having an improved form of reservoir for the water or other cleaning fluid; to provide improved means for securing a squeegee to the reservoir; and to provide a reservoir of this kind having improved means for holding a moistening member.

An illustrative embodiment of this invention is shown in the accompanying drawing, wherein:—

Figure 1 is a top plan of the device.

Fig. 2 is a side elevation of the same, with part of the handle broken away, and the moistening member shown in the dotted outline.

Fig. 3 is an enlarged transverse section taken on the line 3—3 of Fig. 1.

Fig. 4 is a sectional detail, taken on the line 4—4 of Fig. 1.

In the form shown, the improved cleaning device comprises a receptacle 1, mounted on a handle 2, and having attached thereto a moistening member 3 and a squeegee 4.

The receptacle 1 is preferably a sheet metal stamping formed to provide a reservoir for the water or other cleaning fluid.

Formed in the top of the receptacle 1, is a filler opening 5 having a peripheral flange 6, to which is threaded a cap 7 having an air vent 8.

Secured to the bottom of the receptacle 1, is a ferrule 9 providing a threaded socket for the handle 2.

Formed in one side of the receptacle 1, is an outlet opening 10 in which the moistening member 3 is seated. The edges of the receptacle 1, adjacent the opening 10, are bent outwardly to provide a pair of substantially parallel spaced flanges 11 forming bearing portions 12 adapted to grip the moistening member 3.

Portions of the flanges 11 are offset to provide a plurality of ducts 13 adapted to conduct the fluid from the reservoir to the sides of the member 3. The ducts 13 are spaced apart at regular intervals along the outlet 10.

The moistening member 3 may be made of felt or any other suitable absorbent material and is held in the outlet opening 10 by the pressure of the bearing portions 12.

Secured to the opposite side of the receptacle 1, is a rail 14, on which the squeegee 4 is detachably mounted. The squeegee 4 may be made of rubber or any other suitable material and is provided with a clip 15 adapted to slide on the rail 14 when the squeegee is attached or removed.

In operation, the reservoir is filled with water or other liquid poured through the opening 5. The liquid enters the absorbent member 3 through the inner edge of said member and also through the ducts 13. The ducts 13 permit the water to reach the sides of the absorbent member.

After the window has been moistened with the member 3, the device is turned around to permit cleaning with the squeegee 4.

Although but one specific embodiment of this invention has been herein shown and described, it will be understood that numerous details of the construction shown may be altered or omitted without departing from the spirit of this invention as defined by the following claims.

I claim:

1. A cleaning device comprising a sheet metal stamping formed to provide a reservoir having an outlet opening in one side thereof, flanges located on respectively opposite sides of said outlet to provide bearing surfaces, and an absorbent moistening member seated in said outlet between said bearing surfaces, portions of said flanges being offset outwardly away from said absorbent member to provide a plurality of parallel ducts for conducting fluid from said reservoir to the sides of said moistening member.

2. A cleaning device comprising a sheet metal stamping formed to provide a reservoir having a filler opening in one side thereof, a removable cap arranged to close said opening and having a vent therein, a handle secured to the opposite side of said reservoir, a squeegee secured to said reservoir on one side of said handle, said reservoir having an out-

let opening located on the opposite side of said handle, an absorbent moistening member seated in said outlet, and a pair of substantially parallel spaced flanges formed on said reservoir and arranged to grip said member on respectively opposite sides of said outlet, said flanges having spaced portions thereof offset outwardly away from said moistening member to provide a plurality of parallel ducts for conducting fluid from said reservoir to the sides of said moistening member.

Signed at Chicago this 25th day of April, 1928.

ABRAHAM SHAPIRO.