

No. 870,482.

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F. S. & L. THOMAS.
WINDOW CLEANER.

APPLICATION FILED JAN. 15, 1907.

Fig. 1.

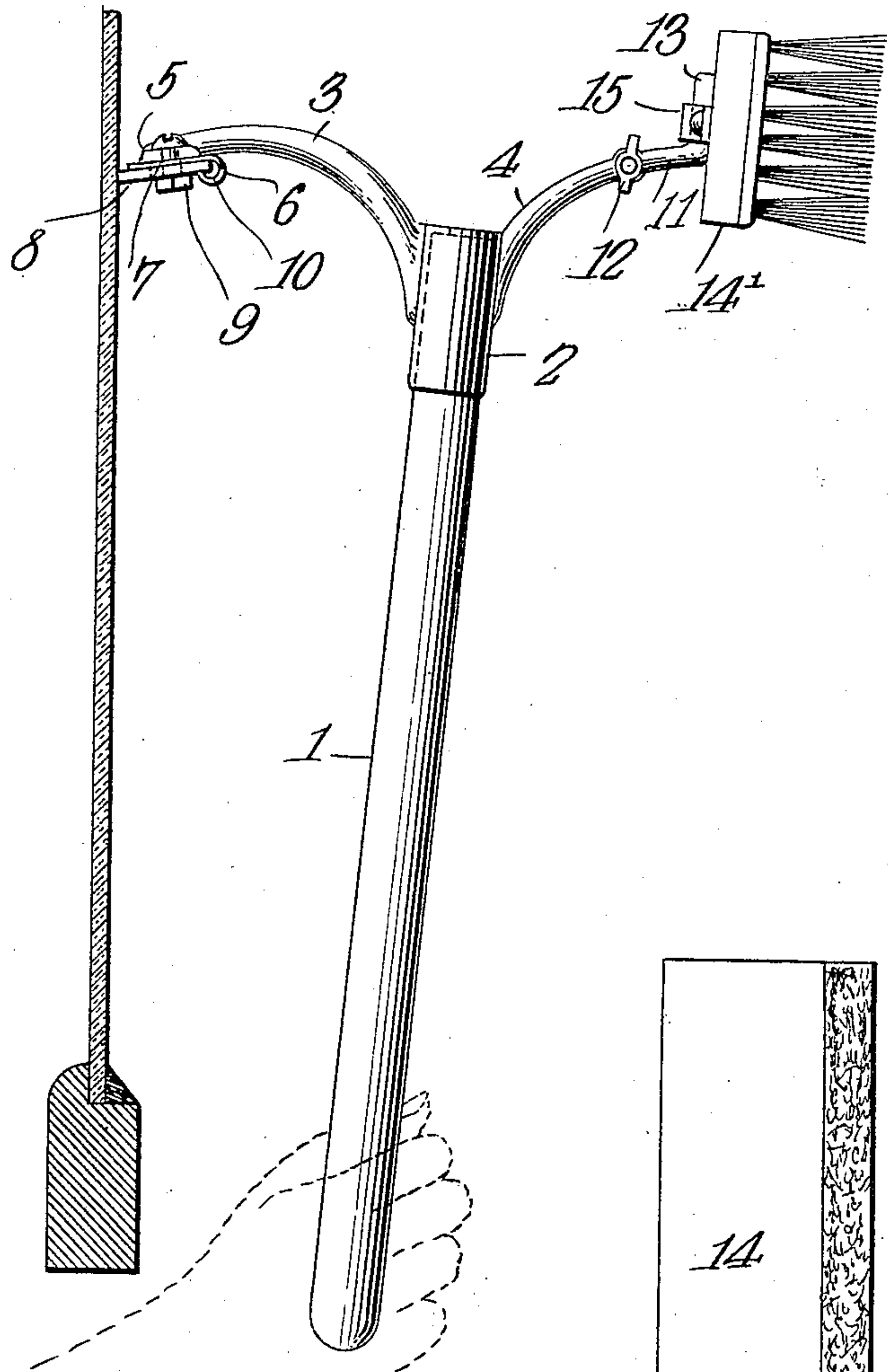
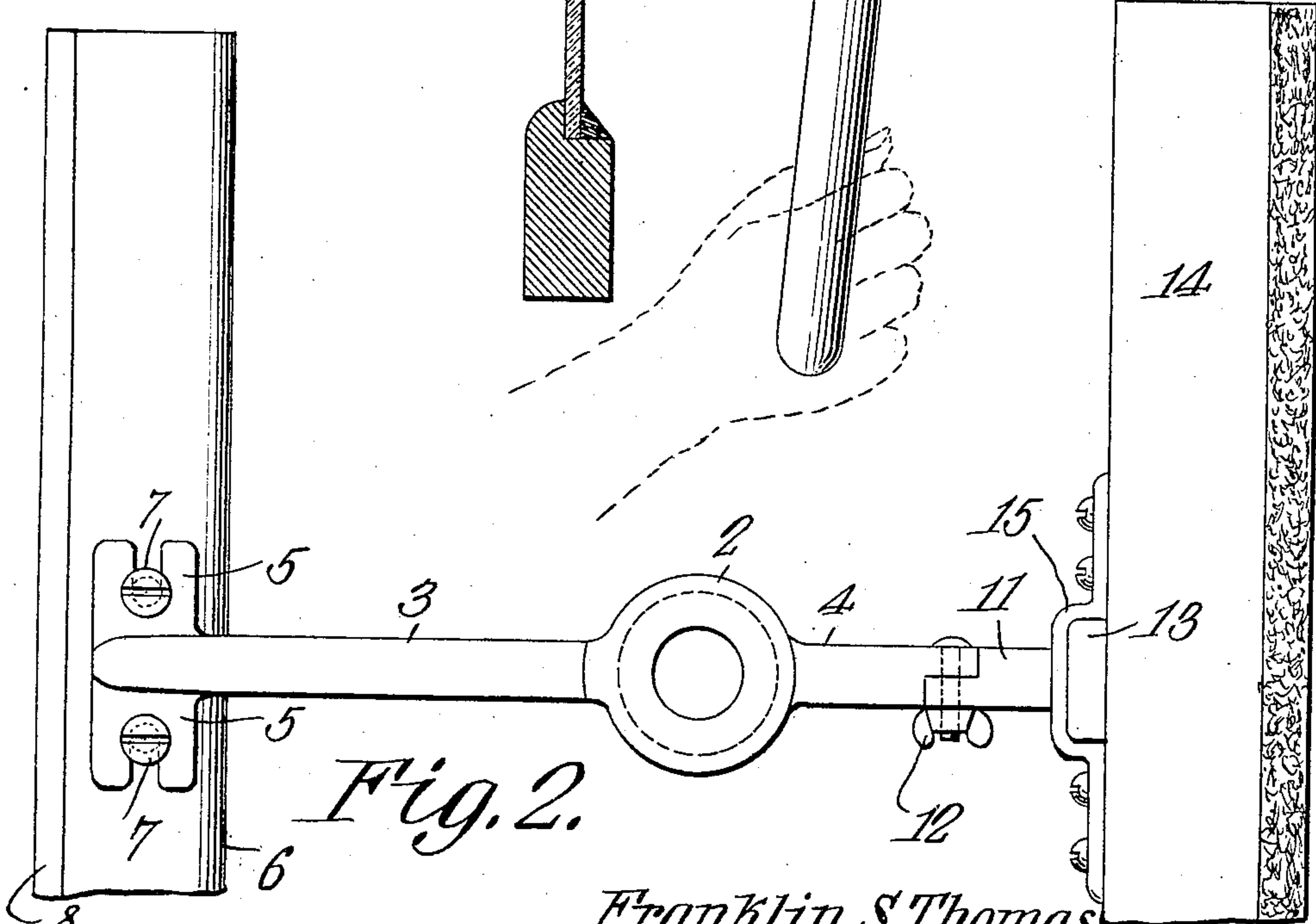


Fig. 2.



WITNESSES:
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FRANKLIN S. THOMAS AND LEOPOLD THOMAS, OF NEW YORK, N. Y.

WINDOW-CLEANER.

No. 870,482.

Specification of Letters Patent.

Patented Nov. 5, 1907.

Application filed January 15, 1907. Serial No. 352,449.

To all whom it may concern:

Be it known that we, FRANKLIN S. THOMAS and LEOPOLD THOMAS, citizens of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Window-Cleaner, of which the following is a specification.

This invention has relation to window cleaners and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

10 The object of the invention is to provide a simple and cheap device for cleaning, polishing and wiping the outer side of windows, said device being so constructed that it may be manipulated by an operator from the inner side of the window.

15 In the accompanying drawing:—Figure 1 is a side elevation of the cleaner provided with a brush, and Fig. 2 is a top plan view of a portion of the cleaner provided with a polisher.

The washer comprises the staff 1 upon the upper end 20 of which is seated the ferrule 2. The said ferrule is provided at its upper end with the upwardly and outwardly extending branches 3 and 4. The branch 3 is provided at its end with the laterally disposed bifurcated lugs 5. The strip of metal 6 is held in place 25 against the under side of the said lugs 5 by means of the clamping bolts 7 which pass through the bifurcations of the lugs 5, the strip 6 and the strip of rubber or flexible material 8. The nuts 9 are screwed upon the lower ends of the bolts 7 and clamp the parts together. The rear 30 edge of the strip of metal 6 is curled as at 10 and bears against the rear portion of the strip of rubber 8 and forms a securing means extending longitudinally of the said strip 8. One edge of the strip 8 is located beyond the edge of the strip of metal 6 and the last said edge is 35 adapted to be used for wiping the outer side of the window. The parts are so arranged that the transverse axis of the strip of rubber 8 is located at a right angle or an angle less than a right angle to the longitudinal axis of the staff 1 in order that the said strip 8 may be 40 properly disposed against the exterior of the window as the staff 1 is manipulated by the arm of the operator which passes through the windows and under the glass being cleaned. Such disposition of the strip 8 with re-

lation to the staff 1 is of importance as the said strip will not thoroughly and efficiently wipe the window in case 45 it is disposed at an angle greater than a right angle to the said staff. The branch 4 is provided with a pivoted portion 11 which may be fixed at a desired angle with relation to the body portion of the said branch 4 by means of a bolt and wing nut 12. The said portion 11 is 50 provided with an upstanding end 13. The back of the polisher 14 or brush 14' (one may be substituted for the other) is provided with a loop 15 which is adapted to slip over the upstanding end 13 of the portion 11 and form an attaching means for the brush or polisher to the 55 portion 11 of the branch 4.

From the foregoing description it is obvious that a brush may be applied to the portion 11 of the branch 4 and that with such brush the exterior of the window may be washed. The staff 1 may then be turned and 60 the exterior of the window wiped by passing the strip 8 vertically along the same. The brush is then removed from the portion 11 of the branch 4 and a polisher is substituted in the place thereof and the portion 11 is pitched at a proper angle with relation to the body por- 65 tion of the branch 4 so that the said polisher may bear squarely and evenly against the exterior of the window when the said surfaces of the window may be readily polished as above intimated.

Having described our invention what we claim as new 70 and desire to secure by Letters-Patent is:—

A cleaner adapted to be manipulated from the inner side of a window for cleaning the outer side thereof, comprising a staff, a ferrule mounted thereon and having an upwardly and outwardly extending branch provided with laterally 75 disposed bifurcated lugs, a metallic plate located under said lugs, a flexible strip located under said plate, said plate having its rear edge curled and bearing against the rear portion of said strip and clamping bolts passing through the bifurcations of the lugs and said plate and 80 strip.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

FRANKLIN S. THOMAS.
LEOPOLD THOMAS.

Witnesses:

THOS. J. O'SULLIVAN,
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