

(No Model.)

M. J. BECKER.
WINDOW CLEANER.

No. 484,284.

Patented Oct. 11, 1892.

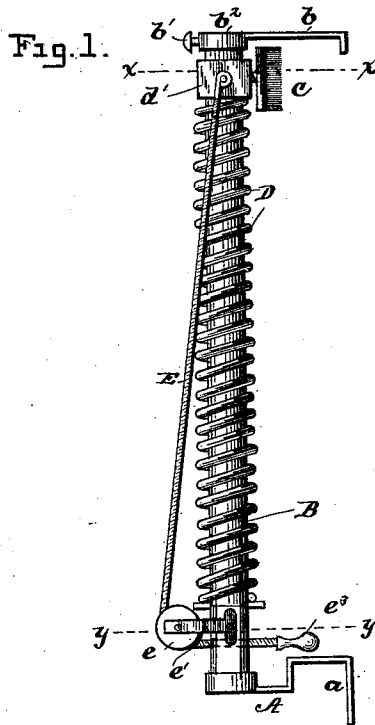


Fig. 2.

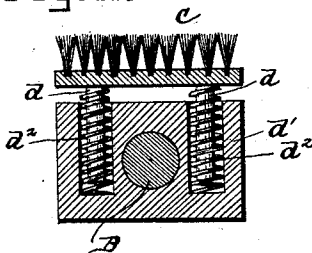
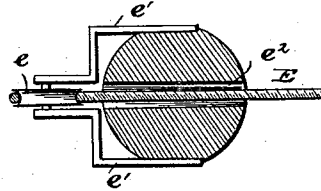


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

MARGARET J. BECKER, OF COHOES, NEW YORK.

WINDOW-CLEANER.

SPECIFICATION forming part of Letters Patent No. 484,284, dated October 11, 1892.

Application filed June 10, 1891. Renewed September 5, 1892. Serial No. 445,075. (No model.)

To all whom it may concern:

Be it known that I, MARGARET J. BECKER, a citizen of the United States of America, residing at Cohoes, in the county of Albany and State of New York, have invented certain new and useful Improvements in Window-Cleaners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to a new and improved window-cleaner, having for its object, primarily, to provide a cheap, simple, and highly-efficient device for cleaning the outside of a window-glass from within, the device being operated by an operator in the room or building of which the window forms a part, thereby avoiding all danger in reaching outside of or beyond a window in the washing thereof.

The invention comprises a rod or standard, a spring-pressed brush designed to bear against the outer surface of a window-glass, and means for pulling said brush, as against the action of its elevating-spring.

The invention further consists of a rod or standard capable of being adjustably secured to a window-sill at any point thereof, an upper adjustable arm for holding the upper end of said rod or standard, a brush moving on said standard and having springs for forcing it against a window-glass, a spring for holding said brush in a normally elevated or raised position, and a cord or strap secured to said brush for lowering the same, as against the action of said spring, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of my improved window-cleaner. Fig. 2 is a horizontal sectional view on the line *x x*, Fig. 1. Fig. 3 is a similar view on the line *y y*, Fig. 1.

Referring to the drawings, A designates an angular holding-plate which is designed to conform to the top surface of a window-sill and is provided with an inner flange *a* to bear against the inner edge of such sill.

B is a post or standard pivotally secured at its lower end to holding-plate A, and to its upper end is secured a right-angular arm *b*, which can be adjusted and held at any suitable point by a set-screw *b'*, working in a col-

lar *b*². This arm *b* is designed to bear against the top of a window-sash, so as to hold the post or standard in proper position. 55

C is a brush, from the back of which project two parallel studs or short rods *d*, which are extended into holes in a rectangular block *d'*, through which post or standard A is designed to project. On these studs or rods *d* 60 are coil-springs *d*², which serve to press the brush outward from plate *d'* against the surface of the window-glass. Around post or standard B is a spiral spring D, which at its lower end is held by a transverse stud of post 65 or standard A, and at its upper end the same bears against the under surface of block *d'* and serves to hold the same elevated to the upper end of said post or standard.

E is a cord or strap secured at its upper end to the brush-holding block *d'* and is passed around a wheel or pulley *e*, held by a bracket *e'*, attached to post or standard A near the lower end thereof, and after being passed through a hole or aperture *e*² in said post or 75 standard said cord or strap is provided with a knob or handle *e*³ to be grasped by the operator.

From the foregoing it will be seen that the lower holding-plate A can be moved along 80 the window-sill to any desired point and that by the operator pulling on the cord or strap the brush can be pulled down over the surface of the window-glass, it being returned to its normal position or elevated by the action 85 of the spiral spring encircling the post or standard. Water or other washing-fluid can be supplied to the brush by a hose or any other suitable means. It will be observed that the brush is constantly held tight up 90 against the surface of the glass by the coil-spring secured to the studs or short rods of said brush. By adjusting the upper angular arm the device can be applied to windows of different heights. 95

The advantages of my invention are apparent, and it will be especially observed that the same can be readily and easily operated, that it comprises but few parts, and is strong, cheap, and durable. 100

I claim as my invention—

1. The herein-described window-cleaner, comprising the post or standard, the brush yieldingly secured thereon, capable of being

raised and lowered, and the springs bearing against said brush for forcing the same outward away from said post or standard, substantially as set forth.

5 2. The herein-described window-cleaner, comprising the post or standard, the brush secured thereon, the spiral spring encircling said post or standard and holding said brush raised or elevated, and the cord or strap secured to said brush for lowering the same, 10 substantially as set forth.

3. The herein-described window-cleaner, comprising the post or standard, the brush having studs or short rods, the block movable 15 on said post or standard and into which said studs or rods are projected, the springs encircling said studs or rods, the spiral spring bearing against said plate and holding said brush raised or elevated, the wheel or pulley secured 20 to the lower end of said post or standard, and the cord or strap for lowering said brush, passed around said wheel or pulley, as set forth.

4. The herein-described window-cleaner, 25 comprising the lower angular holding-plate, the post or standard secured thereto at its lower end, the angular bar adjustably secured

to the upper end of said post or standard, the spring-pressed brush movable on said post or standard, and the cord or strap connected 30 to said brush for lowering the same, substantially as set forth.

5. The herein-described window-cleaner, comprising the lower angular holding-plate, the post or standard secured thereto at its 35 lower end, the angular bar adjustably secured to the upper end of said post or standard, the brush having studs or short rods, the block movable on said post or standard and into which said studs or rods are projected, 40 the springs encircling said studs or rods, the spiral spring bearing against said plate and holding said brush raised or elevated, the wheel or pulley secured to the lower end of said post or standard, and the cord or strap 45 for lowering said brush, passed around said wheel or pulley, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MARGARET J. BECKER.

Witnesses:

ADA McMARTIN,
MOLLIE O'BRIEN.