

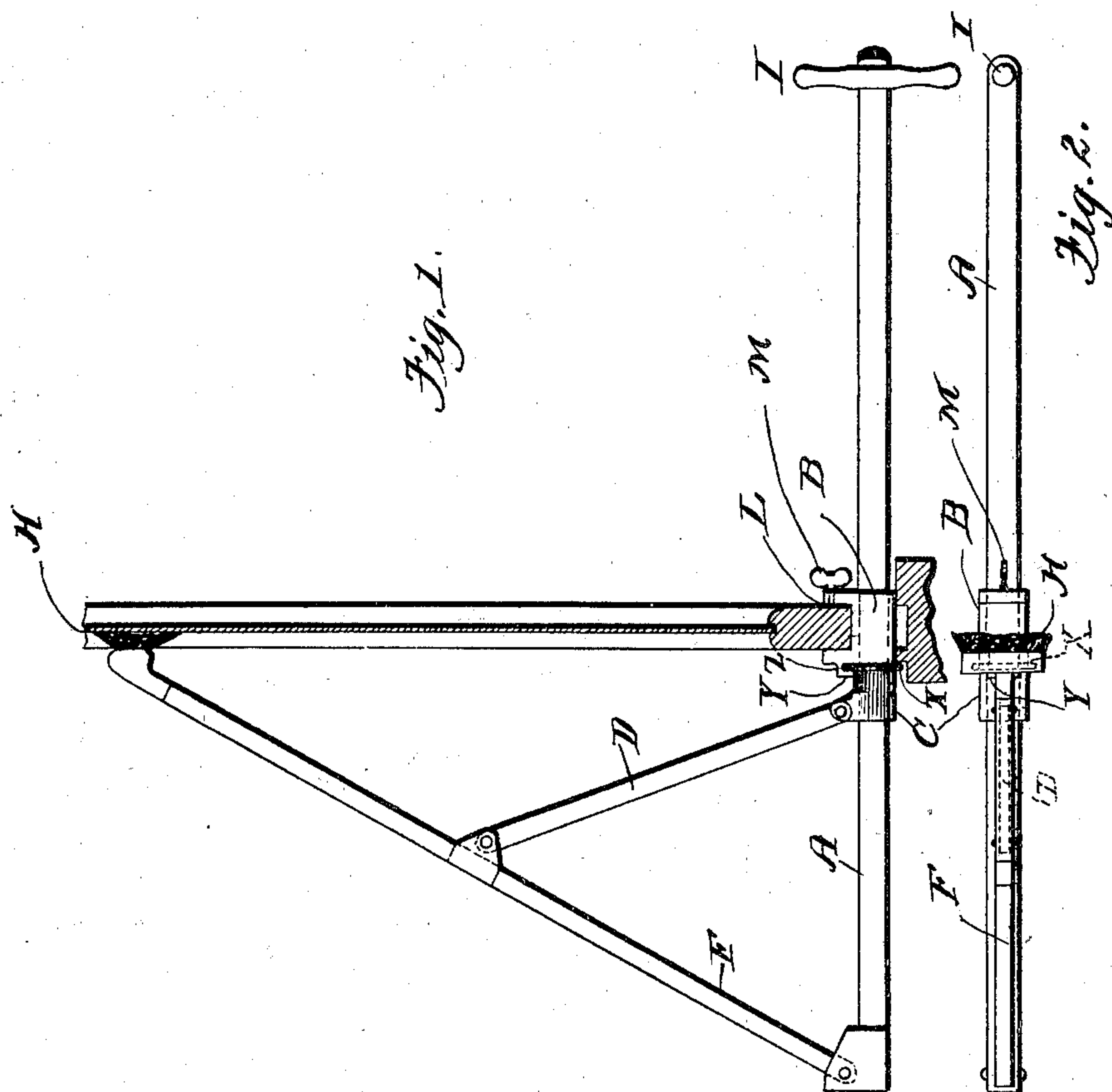
No. 708,299.

Patented Sept. 2, 1902.

E. B. BEELER.  
WINDOW CLEANER.

(Application filed Feb. 15, 1902.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ESTEN B. BEELER, OF CHICAGO, ILLINOIS.

## WINDOW-CLEANER.

SPECIFICATION forming part of Letters Patent No. 708,299, dated September 2, 1902.

Application filed February 15, 1902. Serial No. 94,153. (No model.)

*To all whom it may concern:*

Be it known that I, ESTEN B. BEELER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have  
5 invented certain new and useful Improvements in Window-Cleaners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as  
10 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to window-cleaners;  
15 and the object of the invention is to produce a simple and efficient device by which the outside of windows may be cleaned from the inside thereof.

In the accompanying drawings, Figure 1 is  
20 a side view of the device as applied to a window. Fig. 2 is a top view thereof removed from the window.

Referring specifically to the drawings, the device consists of a block B, the top of which  
25 is recessed, as at L, to receive the bottom rail of a window-sash. A shaft A extends through the block and is provided at its inner end with a handle I, by which it may be rotated or moved longitudinally in the block. A collar C is loosely mounted on the shaft and is  
30 retained in contact with the block B by means of an annular flange X, which is engaged by an offset portion Y of a projection Z from the block. To the outer end of the shaft A is  
35 hinged a lever F, to the other end of which is secured a cleaning device H. A fulcrum-arm D is pivoted to the collar C and to the lever F.

In operation the window-sash is raised a few inches and then lowered into the space  
40 L in the block B, all parts of the machine except the handle being outside of the window. The block B is held to the sill by the sash, or it may, if necessary, be more securely fastened by means of the thumb-screw M. The shaft  
45 A is then moved to and fro through the block and collar by means of the handle I, giving

corresponding motion to the lever F and the cleaning device H in contact with the outside of the window-pane. The shaft and collar may be rotated or turned in the block B,  
50 so that the lever can be projected laterally in all directions to reach all parts of the window-pane.

By the construction stated an efficient device is formed, and in the use thereof a window need not be wide open, as it need be  
55 raised only the distance necessary to accommodate the block B. This is advantageous in cold weather. It will be understood that any kind of cleaning device may be attached  
60 to the lever F.

Having thus described the invention, I claim—

1. A window-cleaner comprising a rotatable, longitudinally-movable shaft, means to  
65 hold the same to a window-frame, a lever having a cleaning device at one end and hinged at its other end to said shaft, and a fulcrum-arm supported upon the window-frame and pivoted to the lever.

2. In a window-cleaner, the combination of  
70 a block secured to a window-frame, a shaft carried thereby and capable of rotary and longitudinal movement, an arm pivotally connected to the block, and a lever attached to  
75 the outer end of the shaft and fulcrumed on the arm.

3. In a window-cleaner, in combination, a block secured to a window-frame, a collar rotatably attached thereto, a shaft extending  
80 through the block and collar and movable rotatively and longitudinally therein, a lever attached to the shaft carrying a cleaning device, and a fulcrum-arm for the lever pivoted  
85 to the collar.

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

ESTEN B. BEELER.

Witnesses:

NELLIE FELTSKOG,  
HARRY G. BATCHELOR.