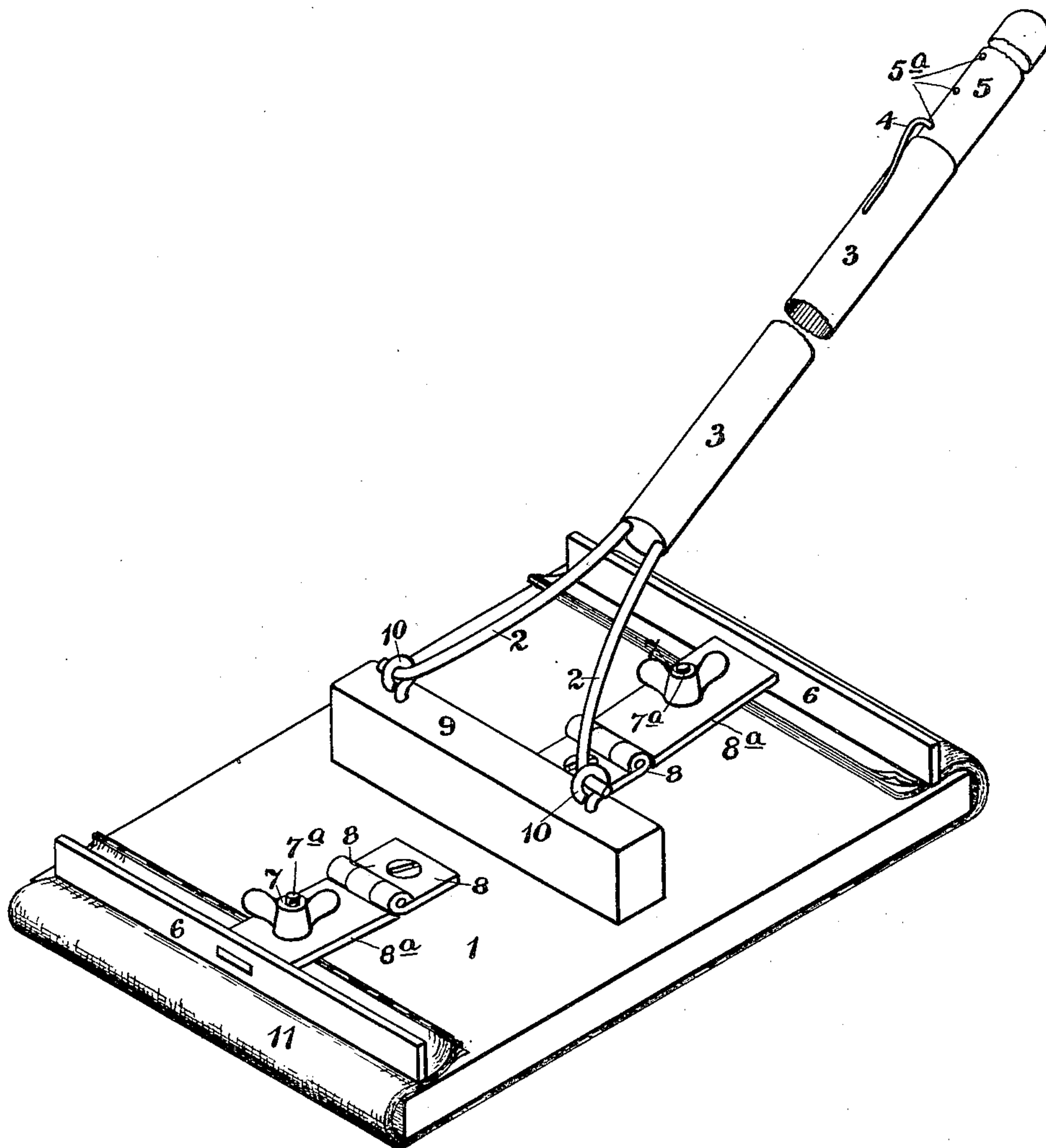


No. 869,842.

PATENTED OCT. 29, 1907.

B. A. HILL.
WINDOW CLEANER.
APPLICATION FILED APR. 28, 1906.



Witnesses

Wm. P. Hawley

H. B. Mc Cabe

Inventor

Benjamin A. Hill.

By Chas. C. Tillman
Att'y

UNITED STATES PATENT OFFICE.

BENJAMIN A. HILL, OF CHICAGO, ILLINOIS.

WINDOW-CLEANER.

No. 869,842.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed April 28, 1906. Serial No. 314,312.

To all whom it may concern:

Be it known that I, BENJAMIN A. HILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain
5 new and useful Improvements in Window-Cleaners, of which the following is a specification.

This invention relates to improvements in a device to be used for cleaning and polishing window-panes, mirrors, and the like and for cleaning other surfaces,
10 and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The objects of the invention are to provide a device
15 of the above-named character, which shall be simple and inexpensive in construction, strong, durable, and effective in operation and so made that it can be operated by means of a handle, which may be adjusted to suitable lengths so as to adapt the device for use on the
20 upper or lower window-sashes to be cleaned, or which may be used in the hand of the operator similar to a brush or cloth.

A further object of the invention is to provide means for securely holding a pad of fibrous material on the
25 body of the cleaner in such a manner that it may be bodily removed therefrom, or the external layers thereof may be removed one at a time.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.
30

In order to enable others skilled in the art to which my invention pertains to make and use the same I will now proceed to describe it, referring to the accompanying drawing, in which—the figure is a perspective
35 view of a window cleaner embodying my invention, showing the parts in their positions ready for use and illustrating the handle shortened for the convenience of illustration.

Referring to the drawing—1 designates the body of
40 the cleaner, which is preferably made of wood and rectangular in shape, as shown. Secured transversely on the body 1 at about its middle is a block 9, which is provided on its upper surface near each of its ends with screw-eyes 10, which are adapted to receive the
45 outwardly bent free ends of the handle extensions 2, each of which is, by preference, made of yielding or spring wire, and have their other ends secured in suitable openings in the lower end of the tubular portion 3 of the handle, which tubular part may be made of
50 any suitable material and of the desired length. Movably located in the upper portion of the tubular part 3 is another portion 5 of the handle, which is provided with a number of openings 5^a to receive one end of a spring catch 4, which is adapted to engage with its

free portion the upper part 3 of the handle, thereby
55 holding the sections 3 and 5 in engagement with one another. It is apparent that the spring catch 4 may be removed from one of the lower openings 5^a and inserted in one of the upper ones, or vice versa, when it is desired to shorten or lengthen the handle, which
60 may be done by telescoping the part 5 with the part 3 which, as before stated, is tubular. Secured to the upper surface of the body 1 on each side of the transverse block 9 is a plate 8, to each of which is hinged another plate 8^a, on the free end of each of which is se-
65 cured a transverse bar 6 used for clamping the ends of the pad 11, which is preferably composed of sheets of paper superimposed one on the other, but which may be made of other suitable material. The body 1 is
70 provided near each of its ends with an upwardly extending screw-bolt 7^a, which pass through suitable openings in the plates 8^a and engage nuts 7, which are employed in conjunction with said bolts to press the
75 plates 8^a towards the body so as to cause the transverse bars 6 to clamp the ends of the pad 11 against the body, as shown in the drawing. When it is desired to re-
move the pad bodily from the body of the cleaner, it is apparent that the nuts 7 may be loosened on their
80 screw-bolts 7^a, which will permit the bars 6 to be moved from the body and the pad withdrawn, when a new one may be inserted, after which its ends which are
turned up over the ends of the body may be held in position by the bars 6 by again tightening said screws.

By employing a cleaner constructed according to my invention and as above described and shown in
85 the drawing, it is obvious that the handle consisting of the members 2, 3 and 5 may be detached from the body by simply pressing the extension members 2 towards each other, which will disengage their lower
90 ends from the screw-eyes, when it is apparent that the cleaner may be manipulated by the operator grasping the block 9 with his hand. In using the cleaner, I prefer to employ a pad 11 consisting of numerous
95 sheets of paper laid one on the other, and may moisten the outer sheet or sheets with a suitable solution, such as a mixture of water, alcohol and ammonia, when by rubbing the glass or window-pane, the stains thereon
will be quickly and thoroughly removed and at the same time the outer or moistened sheets of the pad will
100 usually be worn off incident to the friction in the operation of rubbing, when the under sheets or layers of the pad will be exposed to the glass for drying and
polishing the same. If, however, the moistened or
105 outer sheets should not be worn off, it is evident that they can be readily removed by tearing them at the places where they are clamped by the cross-bars 6 on the upper surface of the body of the cleaner.

Having thus fully described my invention what I

claim as new and desire to secure by Letters-Patent.
is—

5 In a window cleaner, the combination with a body having a transversely located block at about its middle on one of its surfaces, a handle pivotally and detachably connected to said raised portion, a screw-bolt projecting from the surface of the body near each of its ends, a pair of plates hinged to the body and extending to near its ends, each of said plates having an aperture through which said

bolts are passed, a bar transversely secured on the outer 10 end of each of said plates, a nut engaging each of said bolts, and a pad interposed near each of its ends between the transverse bars and body and underlying the latter, substantially as described.

BENJAMIN A. HILL.

Witnesses:

CHAS. C. TILLMAN,
M. A. NYMAN.