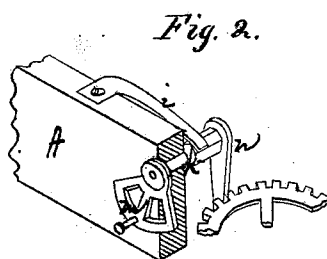
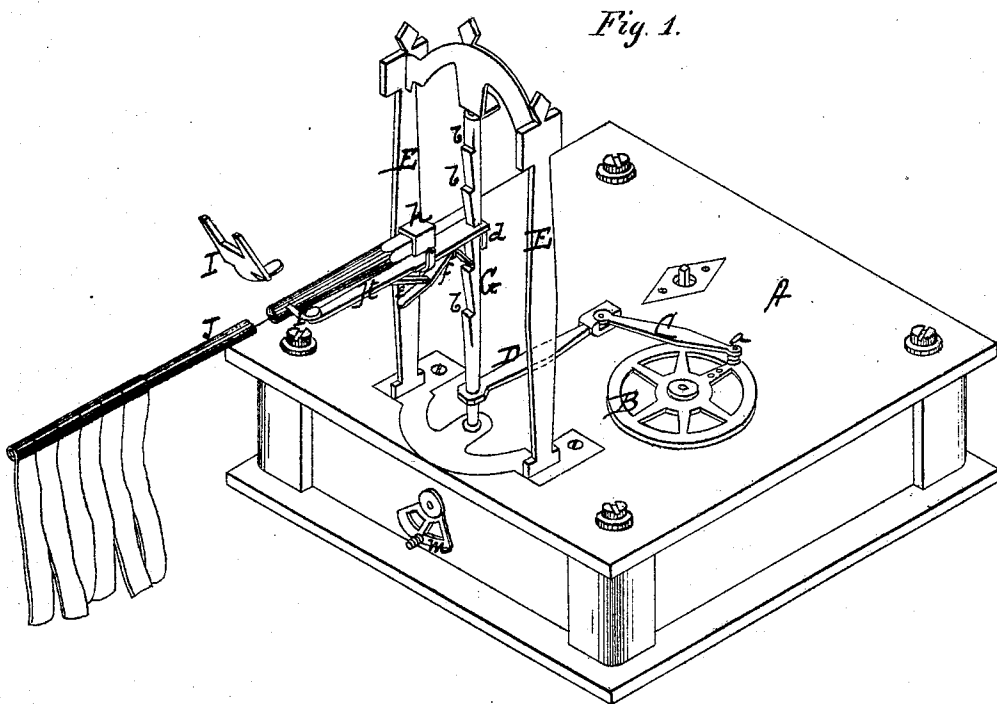


WILLIAM H. CHIPLEY.

Improvement in Automatic Fly Brushes.

No. 121,335.

Patented Nov. 28, 1871.



Witnesses:

Henry A. Miller
C. L. Ewert.

Inventor

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UNITED STATES PATENT OFFICE.

WILLIAM H. CHIPLEY, OF LIBERTYTOWN, MARYLAND.

IMPROVEMENT IN AUTOMATIC FLY-BRUSHES.

Specification forming part of Letters Patent No. 121,335, dated November 28, 1871.

To all whom it may concern:

Be it known that I, WILLIAM H. CHIPLEY, of Libertytown, in the county of Frederick and in the State of Maryland, have invented certain new and useful Improvements in Automatic Fly-Brush; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of an "automatic fly-brush," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my entire apparatus, and Fig. 2 is a perspective view of the device by which the motion of the brush may be stopped at will.

A represents a box, of suitable dimensions, within which is a clock-work of any convenient description. The last or operating shaft or spindle is vertical and extends upward through the top of the box A, and has a wheel, B, attached to its upper end above the box. This wheel is provided with an adjustable crank-pin, *a*, upon which is placed a pitman, C, the other end of said pitman being pivoted to a horizontal arm, D, extending from near the lower end of an upright rocking shaft or bar, G, having its bearings in a frame, E, attached to the top of the box A. The front side of the shaft or bar G is provided with notches or offsets *b b*, as shown, for the purpose of adjusting the brush-holder at any height desired on said shaft or bar. The brush-holder consists of a horizontal bar, H, having at its inner end a hole through which the rocking bar G passes, and at its outer end an upward-projecting fork, I. To the inner end of the bar H is attached a projection, *d*, which extends downward along the rear side of the rock-bar G, to form a sort of support or bearing, while in front of the rock-bar, on the under side of the bar H, is a pawl, *f*, thrown, by means of a spring,

e, against the front side of the rock-bar and into the notches or offsets *b b*, and thus holding the entire brush-holder in a horizontal position. On the upper side of the bar H is a hinged socket, *h*, in which the end of the brush-handle J is inserted, said handle being then laid in the fork I. The clock-work being in motion the brush will vibrate from side to side. Two, or even more, brush-holders may be arranged on the same rocking shaft or bar by having notches or offsets on two or more of its sides, the brushes thus extending in different directions. Through the side of the box A is passed a short shaft, *k*, having on its outer end a handle, *m*, and on its inner end an arm, *n*. This shaft is square-sided immediately inside of the box, and a spring, *i*, presses on the same, as shown in Fig. 2. By turning the handle *m* the arm *n* is made to engage in one of the wheels of the clock-work, thus stopping its motion; and when the handle is turned in the opposite direction the arm is disengaged from the wheel, allowing the clock-work to run, the spring *i* in both cases holding the shaft *k* so that it cannot be turned accidentally.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a clock-work, crank-wheel B, pitman C, arm D, upright rocking shaft or bar G, with notches or offsets *b b* and one or more brush-holders, all substantially as and for the purposes herein set forth.

2. The brush-holder, consisting of the bar H with fork I, projection *d*, pawl *f*, spring *e*, and socket *h*, all constructed and arranged substantially as and for the purposes herein set forth.

3. The combination of the shaft *k*, handle *m*, arm *n*, and spring *i*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of September, 1871.

WM. H. CHIPLEY.

Witnesses:

A. N. MARR,
C. L. EVERT.

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