

H. R. Robbins,

Fly Brush.

No. 95,141.

Patented Sep. 21. 1869.

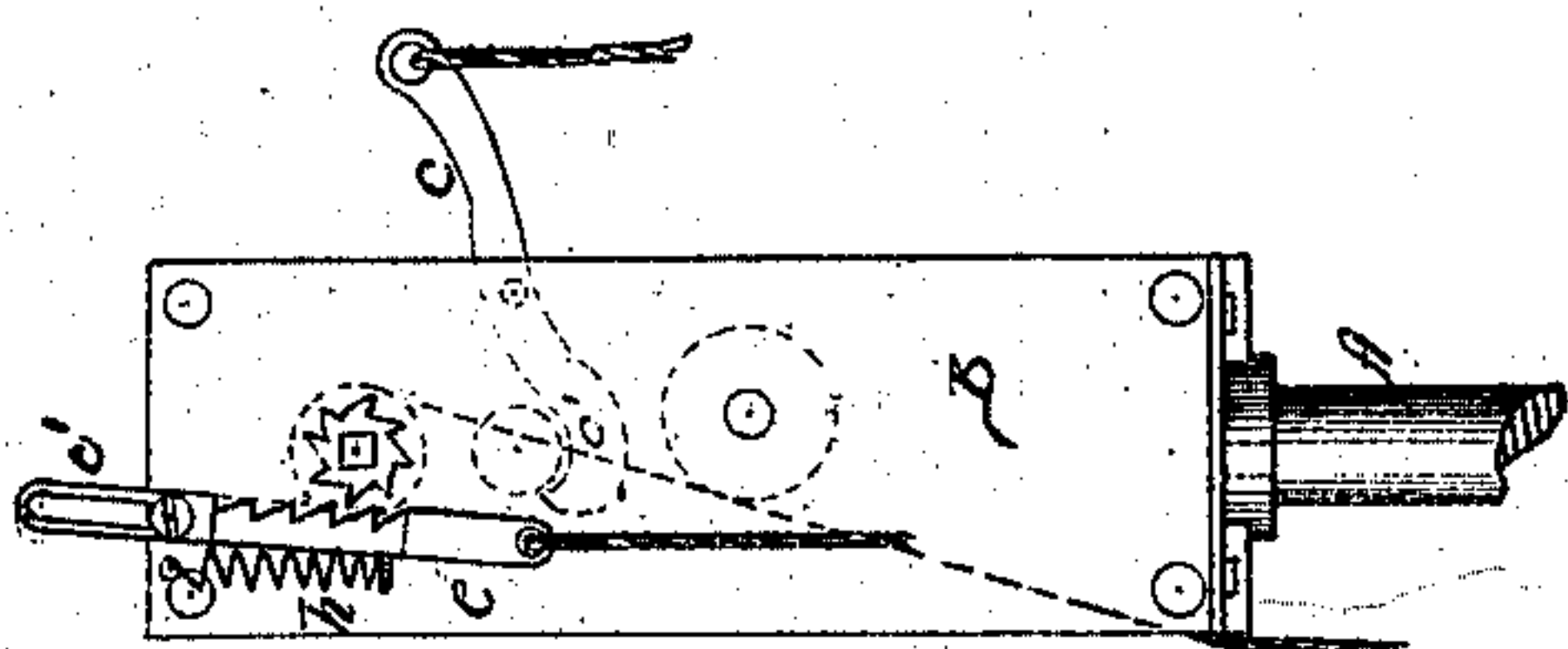


Fig. 2.

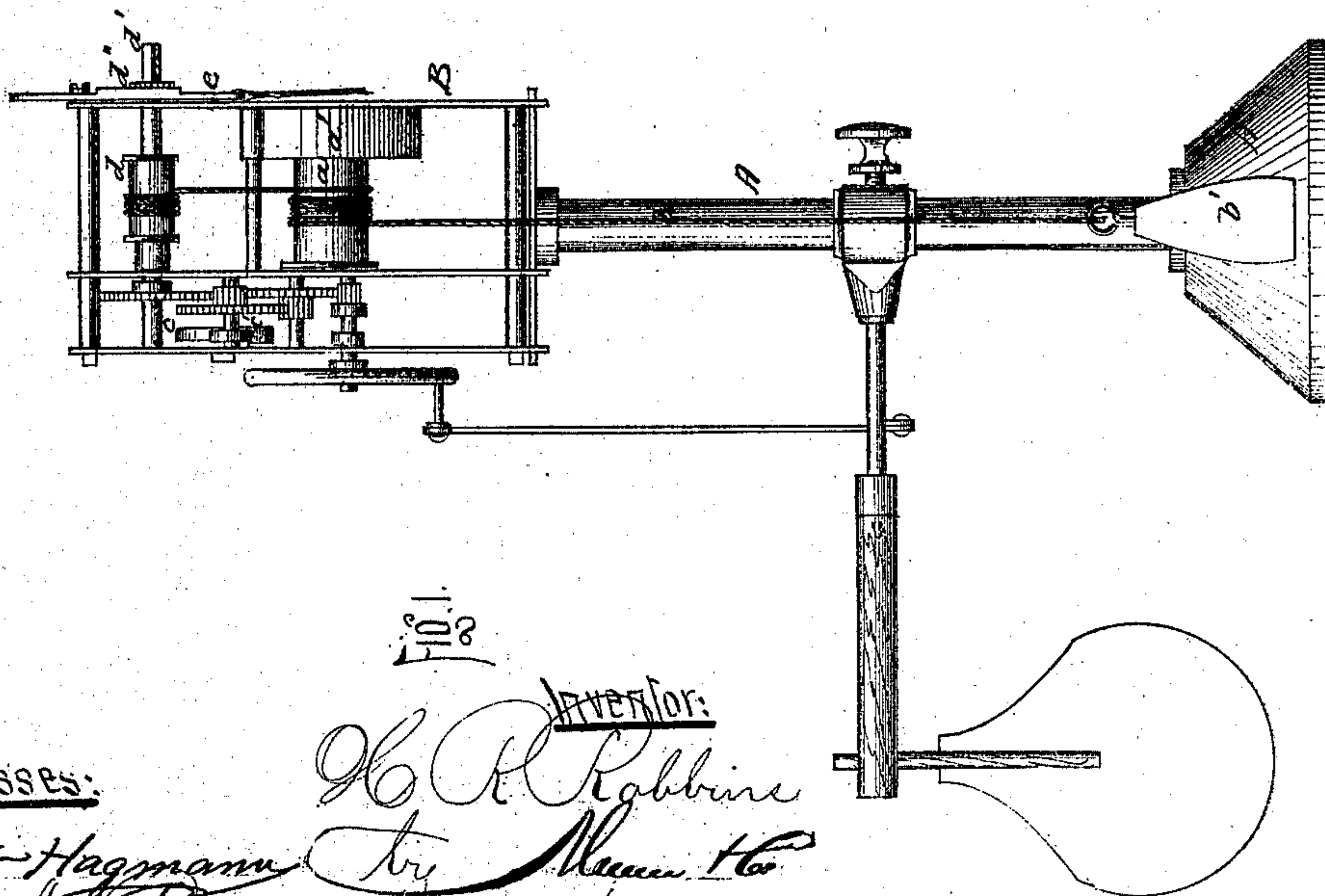


Fig. 1.

Witnesses:

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HENRY R. ROBBINS, OF BALTIMORE, MARYLAND.

Letters Patent No. 95,141, dated September 21, 1869.

IMPROVED FLY-BRUSH.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY R. ROBBINS, of the city and county of Baltimore, and State of Maryland, have invented a new and useful Improvement in Fly-Brushes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation, and

Figure 2, a detached elevation of the supplementary winding-apparatus.

This invention relates to a portable apparatus, in which a brush or fan is made to oscillate by means of machinery, for the purpose of driving flies from a table or bed, and creating at the same time a breeze.

The invention consists—

First, in appending to the drum of the clock-work that operates the brush, both a coiled spring and a cord and weight, for the purpose of accelerating, by the latter, the motion communicated to the drum by the former, whenever it may be desired.

Second, in combining with the motor-mechanism, a brake, having a rubber or leather cushion.

Third, in combining with a ratchet, on the stem of the winding-drum of the motor-mechanism, a pawl, having a slot in its upper end, through which a set-screw passes, connecting the pawl with the standard, by means of which slot and screw the pawl may be drawn over the ratchet, rotating it, and thus wind up the mechanism, the pawl being retracted after each drawing down, by means of a spiral spring, the ratchet, pawl, and spring forming a supplementary winding-mechanism in place of a key.

In the drawings—

A is the standard of the apparatus, set in a foot-piece, A', and supporting upon its upper end a metallic frame, B, which contains the motor-mechanism.

The main drum *a* of the latter is primarily actuated in the usual manner by a spring, *a'*, coiled around the shaft of the drum.

When it may be desired to impart to the brush or

fan a higher degree of speed than is due to the spring alone, a cord, *b*, is to be attached to the surface of the drum, having a weight, *b'*, at one end of it, which, by its gravity, accomplishes the end in view.

To check the mechanism at any time, I employ a brake, *c*, having, for the part that comes in contact with the wheel, a cushion, *c'*, of rubber or leather, fixed in a slot in the end of the brake-lever *c*, which cushion relieves the metal parts from friction, and may be renewed when worn.

The shaft of the winding-drum *d* projects through one side of the metallic frame B, and is squared off in the common form, in order to give the key a hold.

A supplementary winding-apparatus, to be used when the key is lost, or when the frame B is too high to be conveniently reached, is made up of the ratchet *d''* on the shaft *d'*, the pawl *e* having teeth that engage with the teeth of the ratchet, a slot, *e'*, in its upper end, through which a set-screw passes into the side of the frame B, and a curved handle, *e''*, to an eye in the lower end of which a cord is attached for pulling the pawl down, which latter motion rotates the shaft *d'* and the winding-drum.

After each movement of the pawl downward, it is retracted by the spiral spring *h*, and drawn into position to be operated upon at the next pull.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the main drum *a*, of the coiled spring *a'* and the cord and weight *b b'*, arranged and operating as set forth.

2. The winding-mechanism, consisting of the slotted pawl *e*, ratchet *a''*, and spiral spring *h*, all arranged to operate in the manner explained.

The above specification of my invention signed by me, this 23d day of August, 1869.

HY. R. ROBBINS.

Witnesses:

SOLON C. KEMON,
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