(No Model.)

J. M. & W. A. PEAY & J. H. HELSLEY.

AUTOMATIC FLY BRUSH.

No. 260,778. Patented July 11, 1882.

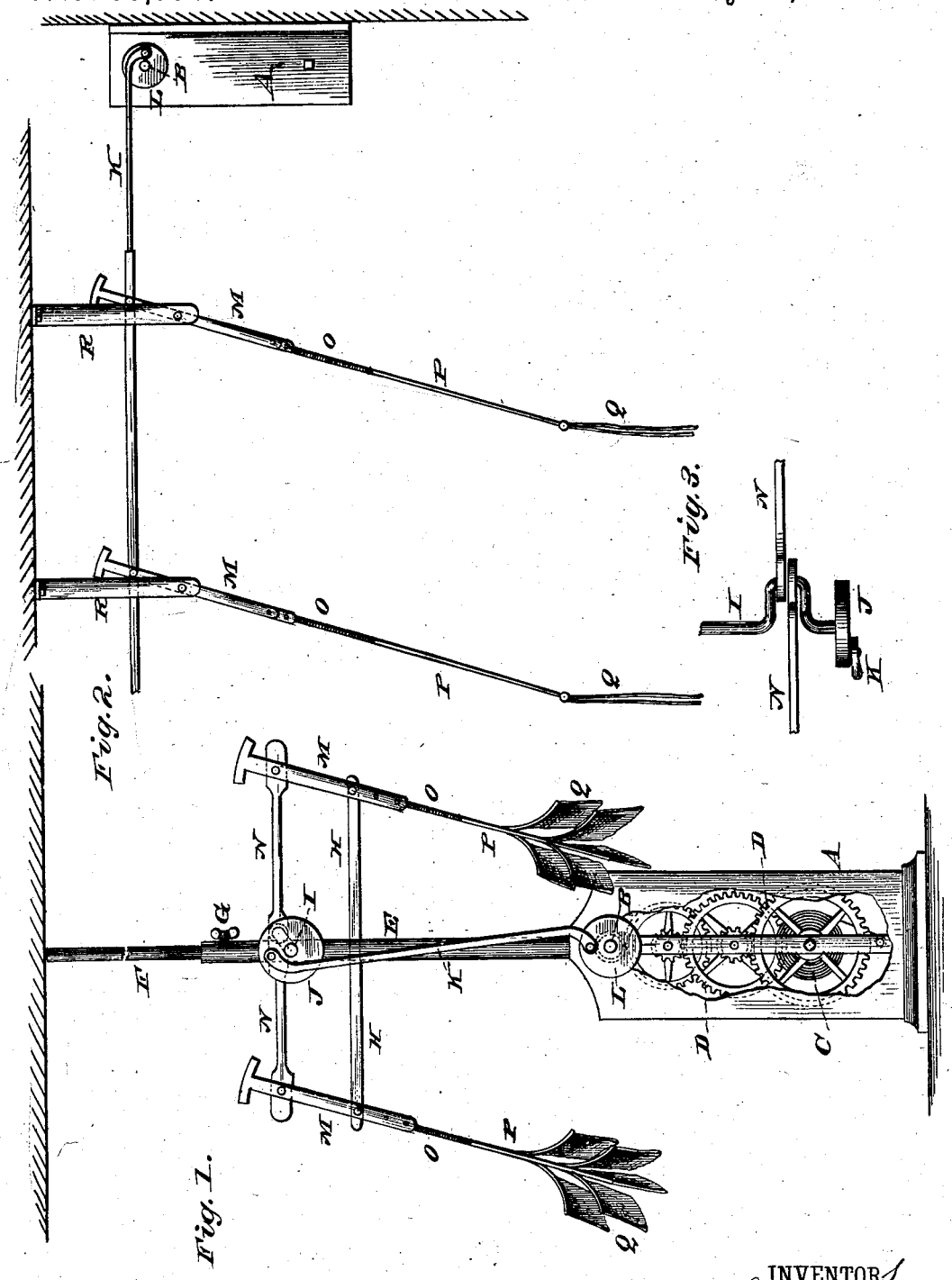

Fig. 2.

Fig. 3.

Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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AUTOMATIC FLY-BRUSH.

SPECIFICATION forming part of Letters Patent No. 260,778, dated July 11, 1882.

Application filed April 27, 1882. (No model.)

To all whom it may concern:

Be it known that we, J. M. PEAY, W. A. PEAY, and J. H. HELSLEY, of South Carrollton, in the county of Muhlenburg and State of Kentucky, have invented certain new and useful Improvements in Automatic Fly-Brushes; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side view of our improved fly-fan, part of the box having been broken away in order to expose the operating mechanism. Fig. 2 is a side view, showing a modification; and Fig. 3 is a detail view of the crank-shaft I, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to automatic fly-fans; and it consists in improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A represents a box or base, having bearings for a transverse shaft, B, driven by a spring, C, from which motion is conveyed to said shaft in any suitable well-known manner, which may be, substantially as shown, by a train of gear-wheels, D.

The box A is provided with an upright, E, which may be tubular, so as to receive an extensible stem, F, which may be telescoped in the tube E or extended and retained in position by a set-screw, G.

The upright E is provided near its upper end with arms or brackets H, a short distance above which it has bearings for a transverse crank-shaft, I. The latter is provided at its front end with a crank wheel or disk, J, connected by a pitman, K, with a crank-wheel, L, upon the front end of the shaft B. The ends of the pitman K are curved, as shown, so that the dead-center shall be readily overcome.

M M are the fan-arms, which are pivoted to the outer ends of the brackets H, their upper ends being connected by pitmen N with the crank-shaft I.

O O are flat springs attached to the lower ends of the arms M, and provided with light wire fingers P, to which the brushes Q, which may be made of paper, linen, or other suitable material, are secured, as shown.

The operation of our invention will be readily understood. The device may be placed upon the table, or wherever required, and the rod F extended until it touches the ceiling, thus bracing and holding the device and preventing jostling. When the shaft B revolves a rocking motion is imparted to the crank-shaft I, which serves to oscillate the fans. The upper portions of the fan-arms, being rigid, are readily operated, while the elastic lower portions serve to make the motion of the brushes even and smooth.

Fig. 2 of the drawings represents a modification of our invention. In this the box A is secured to the wall of a room. The fan-arms M, with their springs O and brushes P Q, are pivoted in hangers R, suspended from the ceiling, and connected by the pitman K direct with the crank-wheel L upon shaft B. The operation is obvious.

Other motive power—such as weights or a treadle—may be substituted for the spring herein shown without changing our invention.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

1. In a fly-fan, the pivoted arms M, having flat springs O, carrying wire fingers P, provided with brushes Q, substantially as set forth.

2. In a fly-fan, the combination, as and for the purpose set forth, of the motor-box, the upright mounted upon said box and supporting the fans, and a rod extensible from said

upright and adapted to bear against the ceiling of the room so as to steady the device during operation.

3. The combination of the motor-box A, having upright E, provided with the extension-rod F, brackets H, and crank-shaft I, having wheel J, the shaft B, having crank-wheel L, the pitman K, having curved ends, the fly-brushes M O P Q, the pitmen N, and suitable operating mechanism, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JOHN M. PEAY.
WILLIAM A. PEAY.
J. HAM HELSLEY.

Witnesses:
B. P. HOWARD,
W. I. MILLER.