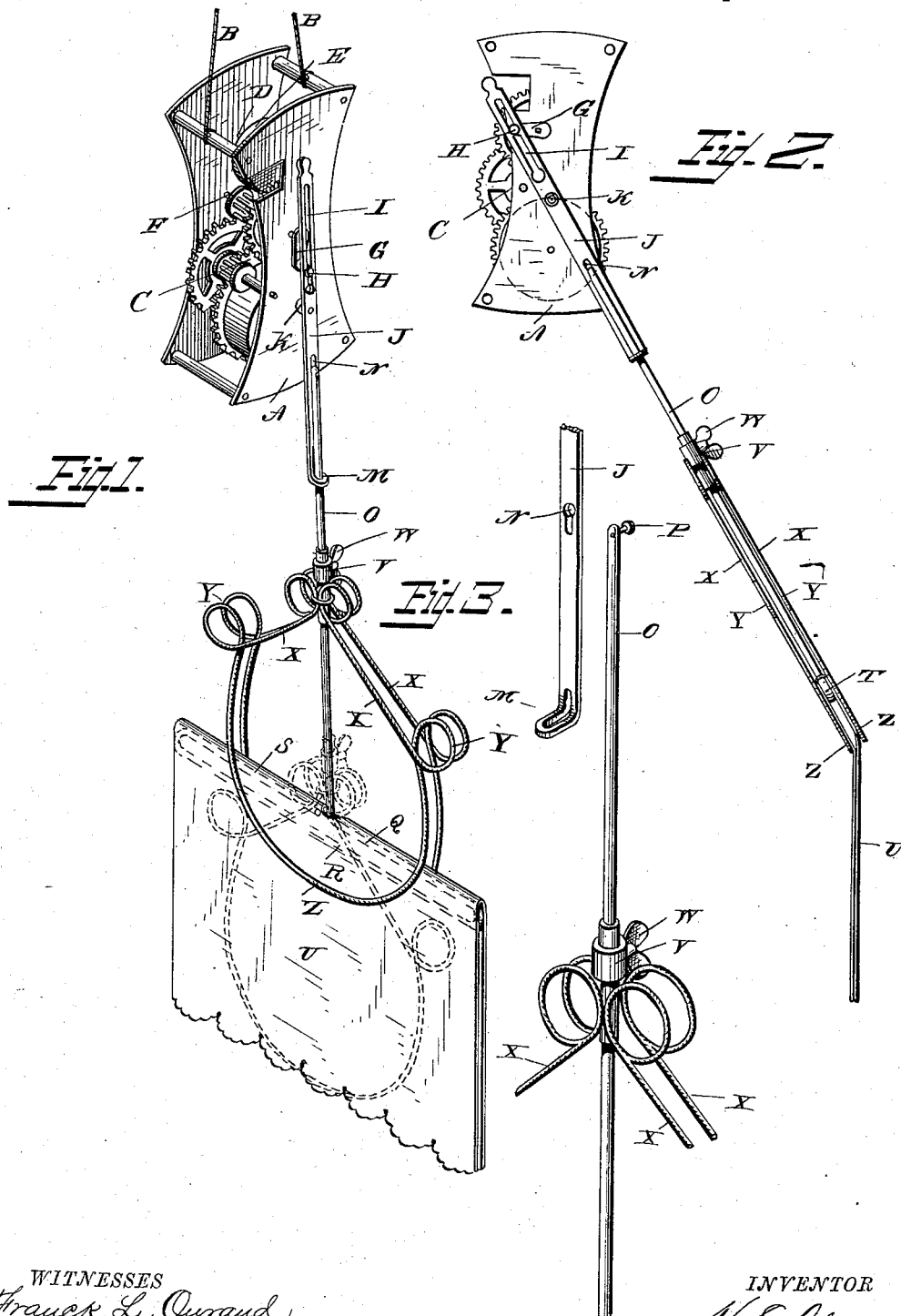


(No Model.)

H. E. CLINTON.
FLY AND HOUSEHOLD FAN.

No. 264,064.

Patented Sept. 12, 1882.



WITNESSES
Frank L. Curand
[Signature]

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UNITED STATES PATENT OFFICE.

HENRY E. CLINTON, OF AUGUSTA, GEORGIA.

FLY AND HOUSEHOLD FAN.

SPECIFICATION forming part of Letters Patent No. 264,064, dated September 12, 1882.

Application filed August 1, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY E. CLINTON, of Augusta, in the county of Richmond and State of Georgia, have invented certain new and useful Improvements in Fly and Household Fans; and I 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.

This invention relates to fly and other fans; and it consists in certain improvements in the construction of the same.

In the drawings, Figure 1 is a perspective view of the complete device; Fig. 2, a side view thereof; Fig. 3, a detail perspective view of the fan-rod and adjusting mechanism.

Referring to the drawings, A designates the frame of the operating mechanism, which is hung or suspended over the table, desk, or chair where it is desired to use the fan by cords B B, and contains suitable clock-work or other operating mechanism, C, preferably constructed with a balance-shaft, D, carrying a fly-wheel, E, and with a transmitting-shaft, F. The latter is provided with a crank-arm, G, the end of which, H, engages in slot I in the upper end of a vibrating lever, J, pivoted at its fulcrum to the side of frame A, as at K. The lower end, L, of lever J is turned outwardly and provided with a holding-slot, M, and above end L is formed a socket-slot, N.

O is the vibrating fan-rod, which has a lateral pin, P, at its top end, the latter being passed through slot M and the pin P received into slot N to secure the rod to lever J. The lower end of rod O is turned outwardly, as at Q, then across, R, and in again, S, to form a cross-piece, T, on which the flexible fan material U is secured.

V is a sliding collar, arranged on rod O and provided with a set-screw, W.

From collar V extend, one pair on each side, divergent arms X X, curved round to form a loop, Y, at their ends, from which it is curved around in U shape to form elastic clamping-pieces Z. These clamping collar attachments are preferably constructed each of one piece

of elastic or spring wire, as shown. Thus, when it is desired to use the device as a fly-fan, the collar carrying the clamping-wire is elevated on rod O, so that the clamps will not bind on the flexible fan material and the latter will have full play and sweep; but when it is desired to use the fan to create a breeze the collar is lowered so that the spring-pieces will embrace each side of the fan material and hold it so as to resist the air. The play of the fan material can, of course, also be regulated to any desired point by adjusting the collar.

The operation and advantages of my invention will be readily understood. The motion is communicated to shaft F, and as the crank-arm thereon revolves in slot I it vibrates lever J, which imparts a like motion to the fan-rod.

The device is convenient, simple, inexpensive, and efficient.

I claim as new—

1. The combination, with the casing carrying the operating mechanism, and having a balance-shaft provided with a fly-wheel and a transmitting-shaft provided with a crank-arm, of the pivoted vibrating lever having slots I and N and an out-turned slotted lower end, and the fan-rod, having at its top a lateral retaining-pin, as set forth.

2. The combination, with the fan-rod having a cross-piece on which is secured flexible fan material, of a sliding collar carrying at each side a spring clamping-piece, adapted to be lowered to regulate the play of the fan material and to enable it to resist the air, as set forth.

3. The combination, with the fan-rod having a cross-piece on which is secured the flexible fan material, of a sliding collar having a set-screw, and carrying on each side a spring clamping-piece consisting of a piece of spring wire bent outwardly and downwardly in U shape, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HENRY E. CLINTON.

Witnesses:

FRANK J. MOSHER,
JOHN W. LYETH.