

(No Model.)

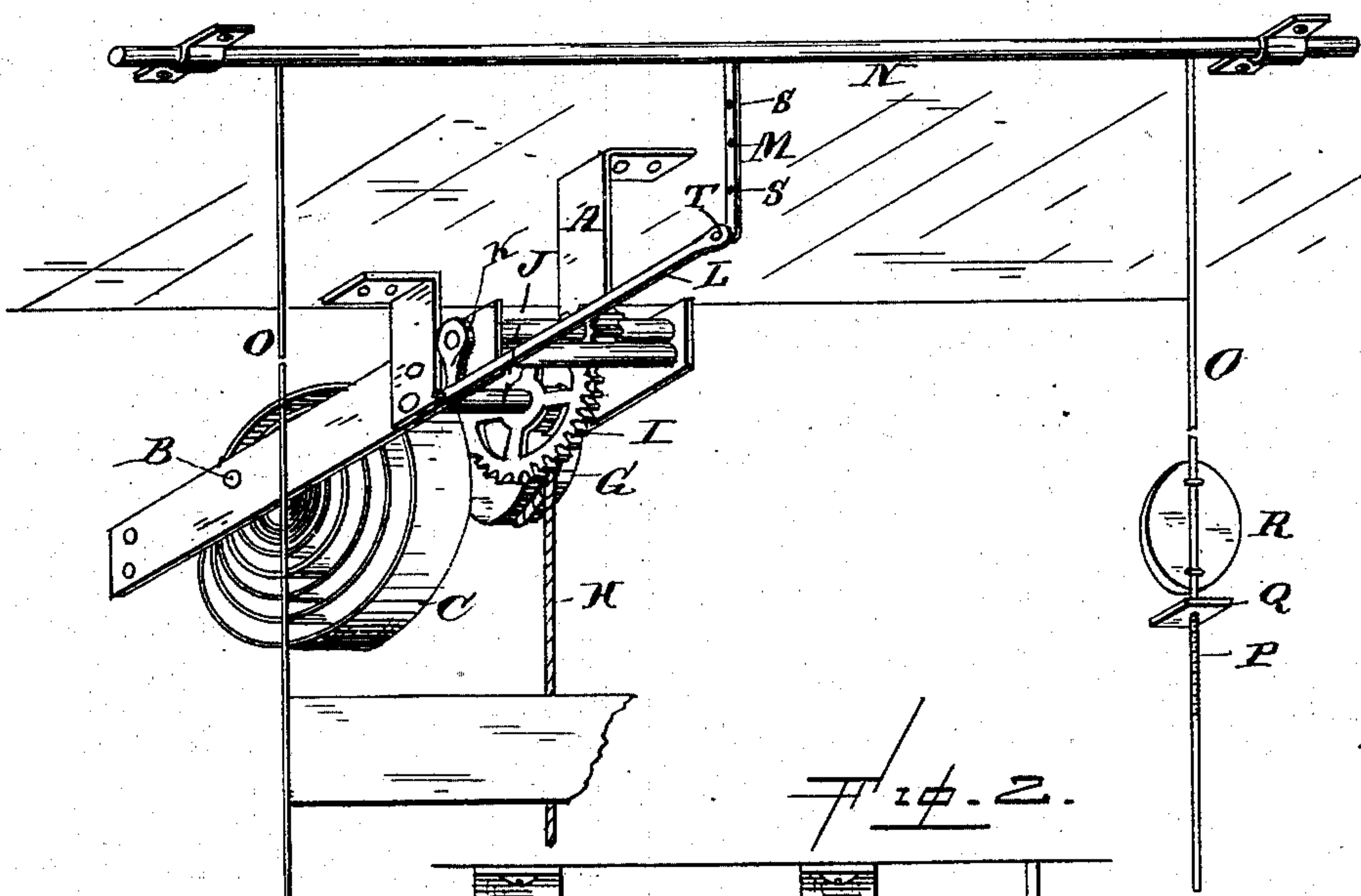
LA FAYETTE W. PAGE.

FLY FAN.

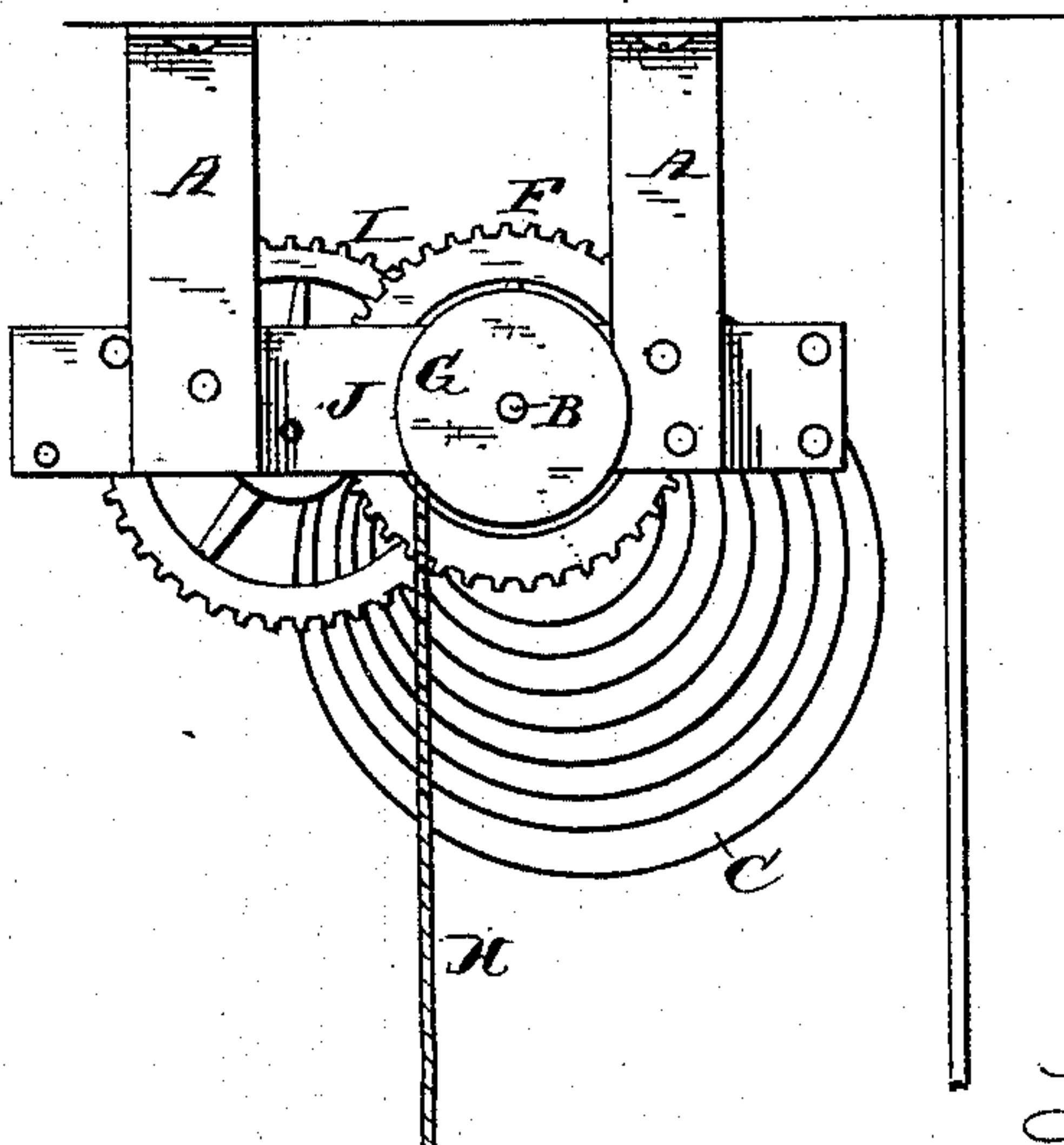
No. 284,224.

Patented Sept. 4, 1883.

*Fig. 1.*



*Fig. 2.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

LA FAYETTE WILLSON PAGE, OF SHREVEPORT, LOUISIANA.

## FLY-FAN.

SPECIFICATION forming part of Letters Patent No. 284,224, dated September 4, 1883.

Application filed April 19, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, LA FAYETTE W. PAGE, a citizen of the United States, residing at Shreveport, in the parish of Caddo and State of Louisiana, have invented a new and useful Fly-Brush, of which the following is a specification, reference being had to the accompanying drawings.

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

In the drawings hereto annexed, Figure 1 is a perspective view, and Fig. 2 is a detail side view.

The same letters refer to the same parts in both figures.

A in the drawings designates a suitable frame secured under the ceiling of a room, and having a transverse shaft, B, to which is attached one end of the mainspring C, the other end of which is suitably secured to the frame. The shaft B is connected in the usual manner by pawl-and-ratchet mechanism (which, however, is not shown in the drawings) with a gear-wheel, F, which is loose upon the said shaft B. The latter extends through the frame, and carries at its outer end a grooved wheel, G, to which a winding cord, H, is attached. Motion is communicated from the gear-wheel F, through a train of gears, I, to a shaft, J, suitably journaled in the outer end of the frame A, and having a crank, K, connected by a pitman, L, with an arm, M, extending downwardly from a shaft, N, journaled in suitable hangers or brackets transversely under the ceiling of the room where the device is used. The said shaft is provided with suitable downwardly-projecting arms, O, to the lower ends of which brushes of any suitable kind are to be attached. One of the arms O has a screw-

threaded section, P, upon which a nut, Q, is adjustable. Said nut serves to support and adjust a pendulum-weight, R, which slides upon the arm O. The arm M of shaft N, to which the pitman L is connected, is provided with a series of perforations, S, in any one of which the wrist-pin T may be adjusted for the purpose of determining the length of stroke.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. When the spring is wound, the motor will impart an oscillating motion to the rock-shaft N, the length of stroke being regulated by the adjustment of the pitman L and the speed by the pendulum-weight R. The revolution of the shaft B serves to wind the cord H upon the grooved wheel G. When the motor has run down, it is only necessary to pull the cord H, thereby unwinding it from the wheel G and turning the latter in a reverse direction, thus winding the spring.

The rock-shaft N may be made to extend through the entire length of a room or hall, and it may be provided with any desired number of rods carrying fans or brushes.

I claim as my invention and desire to secure by Letters Patent of the United States—

In a fly-fan, the combination, with a spring-motor secured under the ceiling of a room, of a grooved wheel secured upon the main or spring shaft of the same, and a winding cord secured to the said wheel, substantially as and for the purpose set forth.

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

LA FAYETTE WILLSON PAGE.

Witnesses:

JAS. V. NOLAN,  
JOHN MURRAY.