

(No Model.)

M. SA-VILSON.
AUTOMATICALLY OPERATED FAN.

No. 543,508.

Patented July 30, 1895.

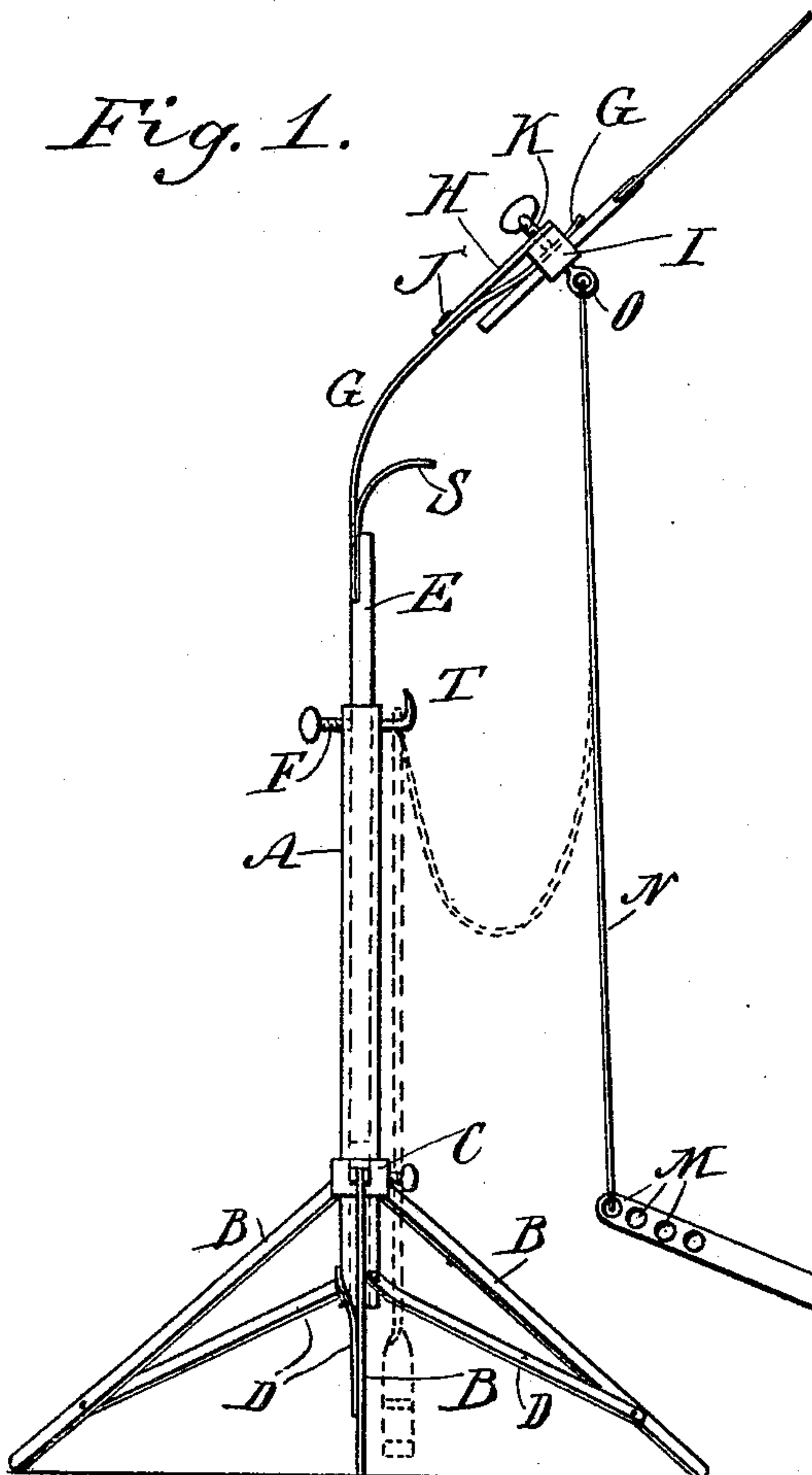


Fig. 3.

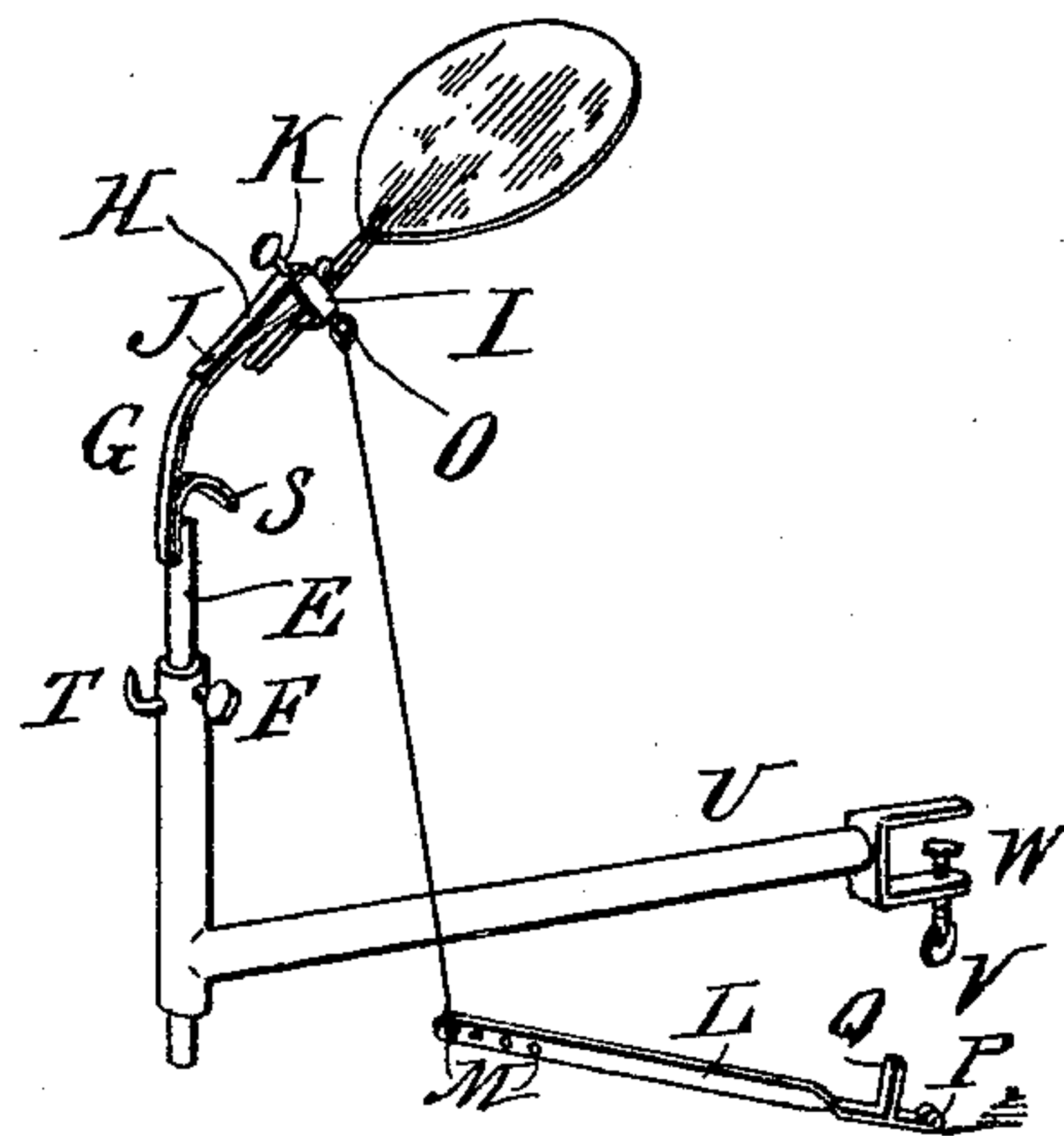


Fig. 2.



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AUTOMATICALLY-OPERATED FAN.

SPECIFICATION forming part of Letters Patent No. 543,508, dated July 30, 1895.

Application filed April 25, 1895. Serial No. 547,126. (No model.)

To all whom it may concern:

Be it known that I, MAX SA-VILSON, a subject of the Emperor of Germany, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Automatically-Operated Fans, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

My invention relates to fans, and its object is to provide a fan which may be automatically operated by a rocking-chair in such manner that the oscillation of the chair will cause the fan to be moved and direct a current of air over the occupant of the chair. Its novelty will be hereinafter more fully described and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical elevation of my improved device; Fig. 2, a perspective view illustrating the operation of my device, showing a person seated in a rocking-chair, by which chair my device is operated; and Fig. 3, a perspective view showing a modified form of support for my device.

In the practice of my invention I provide a tubular support A, to the lower end of which is attached a set of ordinary adjustable legs B. The upper ends of these legs are pivoted on lugs on a collar C, which collar is adapted to slide up and down on the tube A. Pivoted at one end to the lower end of the tube A and to the legs B is a series of three arms D, one for each leg B. The purpose of these arms is to brace the legs B and hold them in proper position relative to each other and the tube A when the collar C is slid up or down on the tube, the whole forming a substantial support or stand, adapted to hold the device in an upright position when it is placed upon the floor for use.

In the tube A and adapted to slide up and down therein is a rod E. This rod may be secured at any desired position in the tube A by a set-screw F in the upper end of the tube. To the upper end of the rod E, which projects from the end of the tube A, is secured a flat steel spring G, bent to an angle of about forty-five degrees from the vertical. To the upper end of the spring is secured a clamping-frame,

composed of a plate H having secured to or formed integral with it a cylindrical holder I. The frame is riveted or otherwise fastened to the spring G at J in such manner and at such a distance from the end of the spring that the latter projects into the cylindrical holder I. The cylinder I is adapted to hold the end or stick of a fan, which is inserted between the lower wall of the cylinder and the spring G and held therein by the spring bearing against it. To make the connection more secure, however, I provide the end of the plate H with a set-screw K. This screw bears on the spring H and clamps it down on the end of the fan, holding it securely in place in the cylinder I.

As a means for operating the fan a lever L is provided, in one end of which is an aperture M, from which leads a cord N. The other end of this cord is attached to a loop or hook O, secured to the outer surface of the cylinder I, and the cord is of such length that the lever A is held above the floor at one end while the other may rest thereon. This lower end P is turned upward at a slight curve and a slight distance above the lower end a projection or lug Q is provided. In the space above the projection one of the rockers R of a rocking-chair is adapted to rest, and in its movement up and down by the rocking of the chair it oscillates the lever L on the fulcrum formed by the curved portion P. This movement, by means of the cord N, also oscillates the spring G, pulling it downward in the downward movements of the lever L and the resiliency of the spring G returning it and the lever L to their upper positions when the rocker moves up again.

A curved plate S, secured at the upper end of the rod E, prevents the spring coming in contact with the sharp edges of said rod E when the device is being operated, preventing its being bent or broken thereon and also limiting its downward movement. The up-and-down movements of the rocker are thus communicated to the fan and their extent increased by means of the lever L, the cord N, and the spring G, and the position of the fan is such that it operates close to the side of the chair and can be vertically adjusted to operate at any desired height. The lever L may be provided with a series of holes or aper-

tures M in order to regulate the movements of the fan by affixing the cord N to the lever at different points.

A hook T is provided near the upper end of the tube on which the lever may be hung when not in use, as shown in dotted lines in Fig. 1.

As will be seen, the device may be collapsed by folding the legs B close to the tube, which is done by merely sliding the collar C upward thereon and moving the rod E downward into the tube. In this collapsed form the device occupies but small space and is in suitable shape for packing or storing.

In Fig. 3 I have shown a modification of the means for supporting the device by the side of a chair. In that view it will be seen that the tube A is provided with an extension or bar U at right angles to the tube. At its outer end this rod is divided or forked, and the lower arm of the fork is provided with a set-screw V. This fork W is adapted to fit over one of the rungs or the seat of the chair and to be clamped thereto by the set-screw V. This construction does away with the necessity of providing legs or other supports upon which the device may stand, and allows it to retain a fixed position relative to the chair.

It will thus be seen that I have accomplished the object of my invention by means of a device simple in construction, efficient in operation, and cheaply manufactured.

I do not limit myself to the exact construction shown, as many changes therein and modifications thereof may be made without departing from my invention.

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

1. In a fanning device adapted to be operated by a chair, a lever resting on the floor at one end, and having a bearing for the rocker of the chair, an adjustable standard or support, consisting of a rod adapted to be slid up

and down in a tube, said tube being provided with adjustable legs, a spring secured to the upper end of the rod, and adapted to hold a fan, and a connection between the lever and the spring, whereby the movements of one are communicated to the other, substantially as shown and described.

2. In a fanning device adapted to be operated by a chair, a lever resting on the floor at one end, and having a bearing for the rocker of the chair, an adjustable standard or support, consisting of a rod adapted to be slid up and down in a tube, said tube being provided with adjustable legs, a spring secured to the upper end of the rod, and bearing at its upper end a clamp adapted to receive a fan, a hook or loop attached to the clamp, and a cord connecting the loop and lever, whereby the movements of one are communicated to the other, substantially as shown and described.

3. In a fanning device adapted to be operated by a chair, a lever resting on the floor at one end, and having a bearing for the rocker of the chair, an adjustable standard or support, consisting of a rod adapted to be slid up and down in a tube, said tube being provided with adjustable legs, a spring secured to the upper end of the rod, and bearing at its upper end a clamp adapted to receive a fan, a hook or loop attached to the clamp, and a cord connecting the loop and lever, whereby the movements of one are communicated to the other, a guard for limiting the movement of the spring, and a hook on the tube, upon which the lever may be hung when not in use, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 24th day of April, 1895.

MAX SA-VILSON.

Witnesses:

M. G. MCCLAIN,

RUBEN B. CAFFRAY.