

No. 648,815.

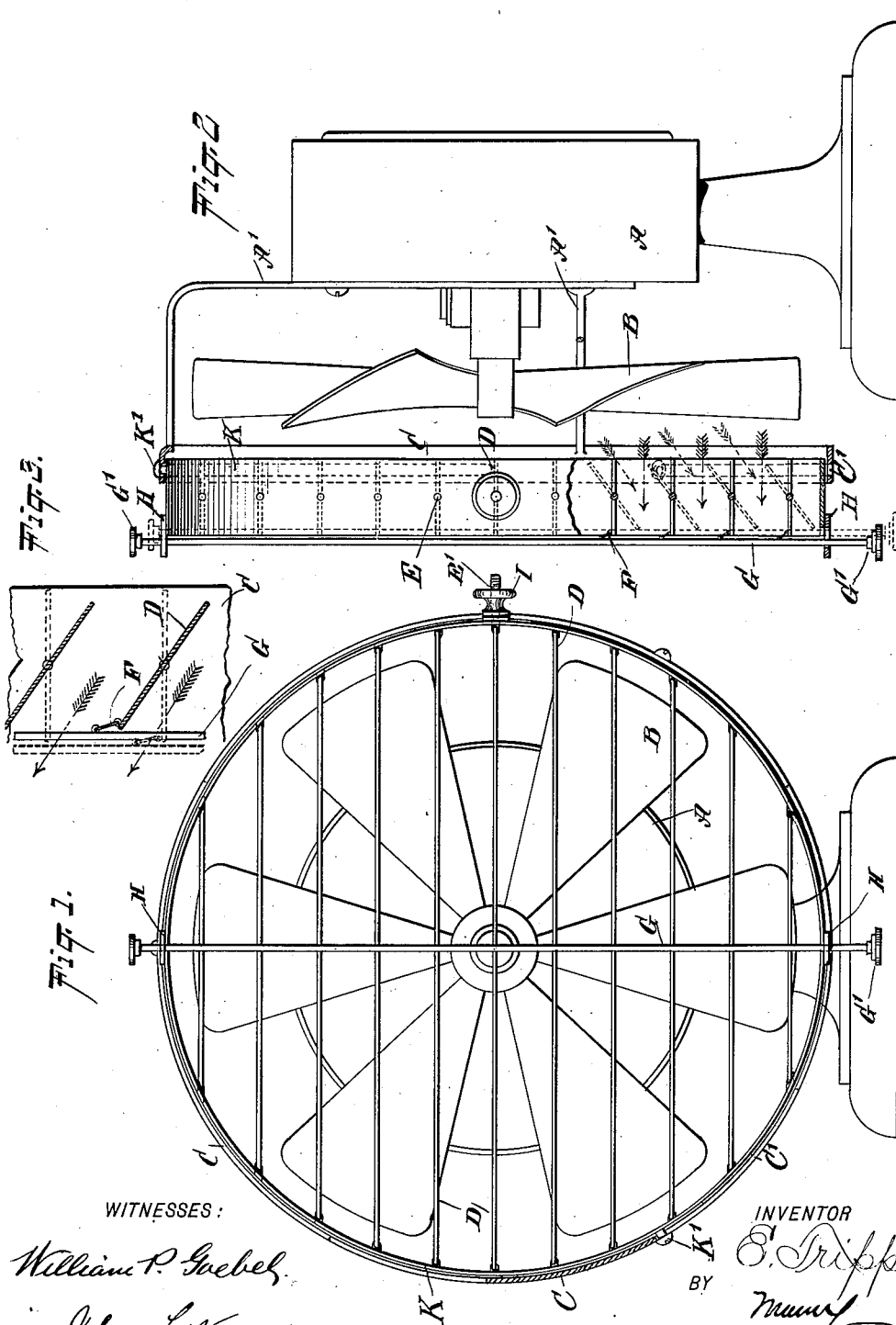
Patented May 1, 1900.

E. TRIPP.

AIR DIRECTING DEVICE FOR FANS.

(Application filed Aug. 9, 1899.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

EDGAR TRIPP, OF PORT OF SPAIN, TRINIDAD.

## AIR-DIRECTING DEVICE FOR FANS.

SPECIFICATION forming part of Letters Patent No. 648,815, dated May 1, 1900.

Application filed August 9, 1899. Serial No. 726,682. (No model.)

*To all whom it may concern:*

Be it known that I, EDGAR TRIPP, of Port of Spain, in the Island of Trinidad, British West Indies, have invented a new and Improved Air-Directing Device for Fans, of which the following is a full, clear, and exact description.

The object of my invention is to provide a device whereby the blast of air which is discharged from an electric fan or the like may be thrown in any desired direction, and especially whereby such blast may be directed at various angles upward and downward or to the right or left.

To accomplish the indicated results, I construct a directing device, as shown in the accompanying drawings, and as will be fully described hereinafter.

The novel features will be pointed out in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a face view of a fan provided with my improved attachment. Fig. 2 is a side elevation thereof with parts in section. Fig. 3 is an enlarged detail view.

A designates the fan-casing, in which is journaled the fan proper, B, which may be of any approved construction. From the casing is supported by means of arms A', so as to extend in front of the fan B, a carrier C, preferably of circular form, as shown, and provided with segmental slots C', through which pass studs K', secured to a ring K, which is thus capable of a limited rotary sliding movement relatively to the carrier C. This ring contains a series of slats D, hinged about parallel axes, which, as shown, are disposed horizontally and in the center of the cylindrical ring K, the pivots being indicated by the letter E. Each of the slats at its outer end is pivotally connected to a link F, which is also pivotally connected to the operating-bar G, fitted to slide up and down in guides H on the casing C and also capable of a slight inward and outward movement in said guides, as will be clear from the two positions of the bar G, indicated in Fig. 2 by full and dotted lines, respectively. The bar G is provided with operating finger-pieces G'.

In order to secure the slats D in any position after adjustment, I extend the axis or pivot of one of the said slats, preferably the central slat, as shown at E', and upon said projecting end I arrange a clamping-nut I.

The operation of the device will be obvious. According to the angle at which the slats D may be adjusted, the current of air produced by the rotation of the fan B will (when the ring K is so adjusted that the axes of the slats are horizontal) either be discharged horizontally, as usual, or will be deflected upward or downward by a proper adjustment of the slats. By changing the adjustment of the ring K in the carrier C the axes of the slats will be inclined, so as to deflect the air laterally to the left or the right and at the same time upward or downward, except when the ring is adjusted so as to place the axes of the slats in a vertical position, in which case the deflection will be purely lateral. There will therefore be no necessity for moving the fan from its place, and my invention therefore affords a very convenient means of regulating the action of the fan at any angle or in any direction.

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

1. The combination with the fan and its casing, of a carrier rigidly connected with the casing, a support or frame adjustably mounted on the carrier to turn about an axis approximately parallel to the fan's axis of rotation, and slats adjustably mounted on the said frame.

2. The combination of a fan, a cylindrical ring in front thereof, slats pivoted to the ring about horizontal axes, an operating-bar connected with all of the slats, and the clamping-nut on the pivot of one of the slats to lock them after adjustment.

3. The combination with the fan and its casing, of a carrier rigidly connected with the casing, a ring adjustably mounted on the carrier to turn about an axis approximately parallel to the fan's axis of rotation, and slats adjustably mounted on said ring.

EDGAR TRIPP.

Witnesses:

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