

(No Model.)

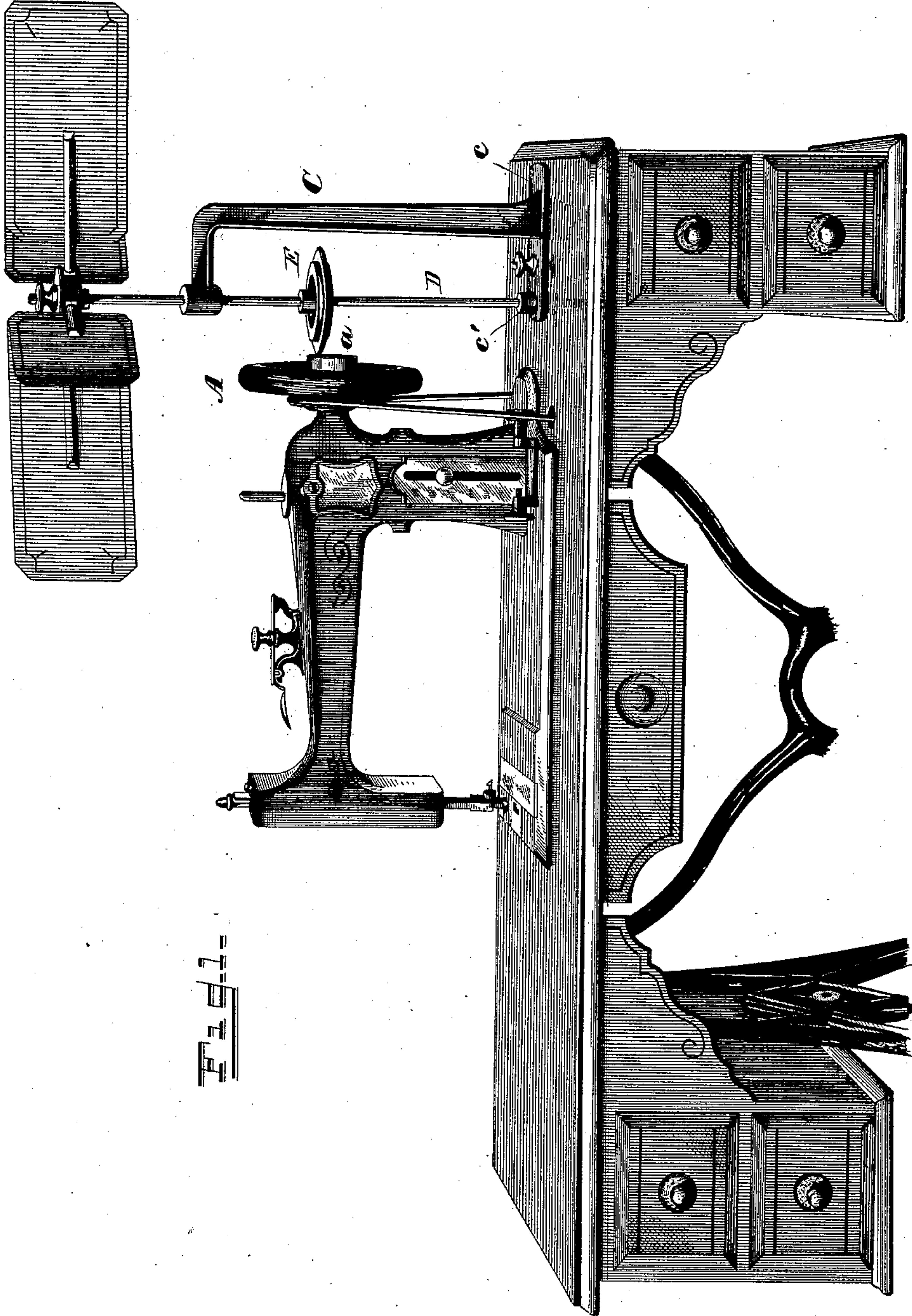
2 Sheets—Sheet 1.

H. H. HERRINGTON.

FAN ATTACHMENT FOR SEWING MACHINES.

No. 373,366.

Patented Nov. 15, 1887.



WITNESSES

G. Sargent Elliott.
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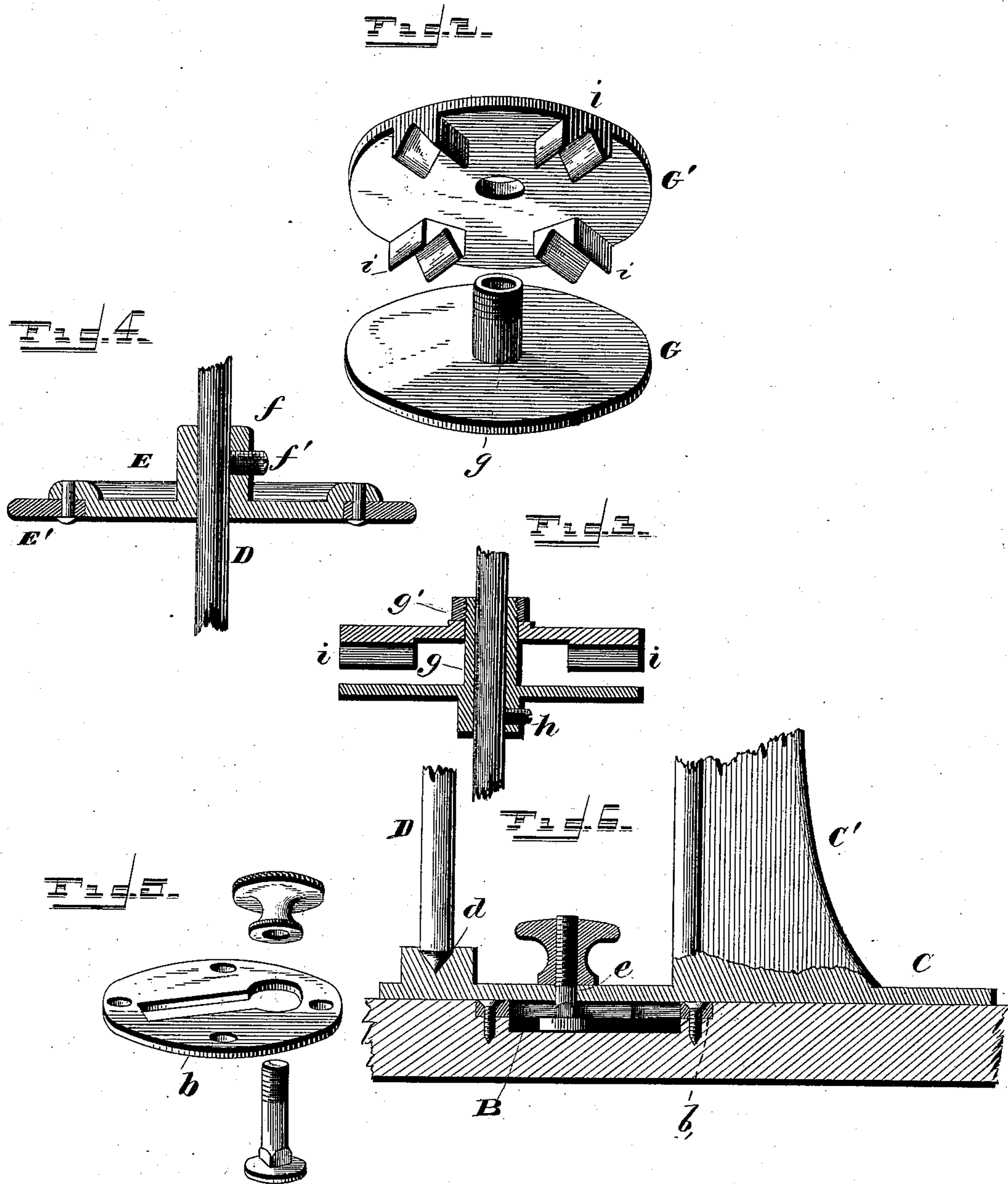
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UNITED STATES PATENT OFFICE.

H. HERBERT HERRINGTON, OF MACON, GEORGIA.

FAN ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 373,366, dated November 15, 1887.

Application filed September 2, 1886. Serial No. 212,526. (No model.)

To all whom it may concern:

Be it known that I, H. HERBERT HERRINGTON, a citizen of the United States of America, residing at Macon, in the county of Bibb and State of Georgia, have invented certain new and useful Improvements in Fan Attachments for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in fan attachments for sewing-machines, the object of my invention being to provide a fan attachment which can be adjusted to and from the driving-wheel of the sewing-machine, the parts of which are constructed so that the friction-wheel of the fan-shaft can be adjusted vertically thereon and the fans raised or lowered on said shaft.

My invention also consists in the construction and combination of the parts, as will be hereinafter set forth.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of my improved fan attachment, showing the same applied to a sewing-machine. Fig. 2 is a detail perspective view of the disks for securing the stems of the fans to the vertical shaft. Fig. 3 is a vertical sectional view showing the disks in position upon the vertical shaft. Fig. 4 is a sectional view of the friction-disk. Fig. 5 is a perspective view of the plate and screw for securing the fan attachment to the sewing-machine table, and Fig. 6 is a sectional view of the lower part of the attachment.

In the accompanying drawings, A refers to the balance-wheel of the sewing-machine, said balance-wheel being usually provided in almost every style of sewing-machines with a centrally-projecting portion, *a*, which is formed integral with said balance-wheel, and it is against the plane face of this projecting portion of the balance-wheel which the friction-disk should contact.

At a suitable point the sewing-machine table is cut away or recessed, as shown at B, for

the reception of a plate, *b*, which is provided centrally with a key-hole slot, through which projects a bolt which is provided with a rectangular portion adjacent to the head thereof. The key-hole slot in the plate *b*, when the same is secured to the sewing-machine table, should be parallel with the length of said table, so that the shaft-support can be adjusted to and from the sewing-machine.

C refers to the shaft-support, which preferably consists of a casting made in a single piece, said casting being provided with a flat base portion, *c*, which is provided at its inner end with an upwardly-projecting bearing, *c'*, which is provided with a central V-shaped socket, *d*, within which the lower end of the vertical shaft D will bear, said shaft having the lower end thereof shaped to correspond therewith. By providing the lower end of the shaft with a V-shaped socket it will automatically take up the wear.

The casting C between the front edge of the upwardly-projecting standard and the bearing *c'* is provided with a perforation, *e*, through which passes a bolt, over the threaded portion of which is placed a thumb-nut. By tightening this thumb-nut the casting can be readily secured to the sewing-machine table. The standard C has at its rear portion a projecting web for giving stiffness thereto, and its upper portion is bent at right angles and extends over the bearing *c'*, where it is provided with a vertical perforation, through which passes the shaft D, so as to maintain the same in a vertical position.

E refers to a friction disk or wheel, which is provided centrally with an upwardly-projecting hub, *f*, which has a transverse perforation which is screw-threaded for the reception of a screw, *f'*, by means of which the friction-disk can be adjusted vertically upon the shaft D, and by providing this friction-disk with the aforesaid means for vertically adjusting the same its position can be varied, so that the edge of said friction-disk can be made to abut against the centrally-projecting portion of the balance-wheel of the sewing-machine at the desired distance from the center thereof, so that the speed of the rotation of the fans may be varied at the will of the operator. The periphery of the disk E is recessed on its under

side and provided with a series of perforations, through which may be passed rivets or bolts for securing in place a washer, E', of solid leather or other equivalent material. By
 5 providing the disk with a circumferential recess the leather washer, which projects at a considerable distance therefrom, will be prevented bending upwardly, which is the only direction in which it would have a tendency
 10 to bend.

The lower disk, G, which holds the stem of the fan in place, is provided with a hub or central socket, g, the upper portion of which is screw-threaded for the reception of a clamping-nut,
 15 g', while the lower projecting portion has a screw-threaded recess for the reception of a set-screw, h. The upper disk, G', is provided with a series of depending portions, i, which are provided centrally with V-shaped recesses,
 20 within which will lie the stems or handles of the fans, and said upper disk is provided centrally with a perforation of sufficient size to fit over the upwardly-projecting portion of the hub of the lower disk.

25 With my improved attachment, ordinary fans—such as are known as "Japanese"—may be employed, or ordinary ornamental advertising-fans, and said fans may be secured in the disks so as to be either at right angles with said
 30 disks or inclined thereto.

The device hereinbefore described is simple in construction, and the parts are capable of adjustment, so that the attachment can be applied to every sewing-machine, and by adjusting the supporting-frame of the rotary shaft to
 35 and from the projecting portion of the balance-wheel the speed of the fans may be regulated, and the fans can be adjusted vertically on the shaft, so as to be at any desired distance above
 40 the sewing-machine.

The device hereinbefore described is not only adapted to be employed on sewing-ma-

chines, but may also be used with any other mechanism desired.

I am aware that prior to my invention it 45 has been proposed to attach revolving fans to a sewing-machine; also to provide such a revolving fan with a standard, over which is placed a tube which carries the fans and a friction-disk, said friction-disk resting upon 50 the upper edge of the balance-wheel, and I do not claim such invention, as in such a case the fans can only be made to rotate in one direction, whereas with my improved device, by moving the friction-disk above or below the 55 center of the shaft of the sewing-machine, the direction of the rotation of the shaft may be varied. This is desirable in some cases, as the fan is employed not only for fanning the operator of the sewing-machine, but also for 60 causing a draft of air to be directed upon the work, so as to keep the same free from lint.

What I claim as new, and desire to secure by Letters Patent, is—

In a fan attachment constructed substan- 65 tially as described, a clamp for the stems of the fan, consisting of a disk having a hub projecting on each side of said disk, the lower portion having a screw-threaded recess for the reception of an adjusting-screw, the upper por- 70 tion being screw-threaded externally for the reception of a clamping-nut, and a disk, G', having downwardly-projecting portions with angular recesses, in combination with the shaft D, supports therefor, and means for rotating 75 said shaft, substantially as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

H. HERBERT HERRINGTON.

Witnesses:

T. B. BLACKSHEAR,
 MATT. R. FREEMAN.