A. A. NAUCK.

Fan Attachment for Sewing-Machines.

No. 215,388. Patented May 13, 1879.

Fig. 1.

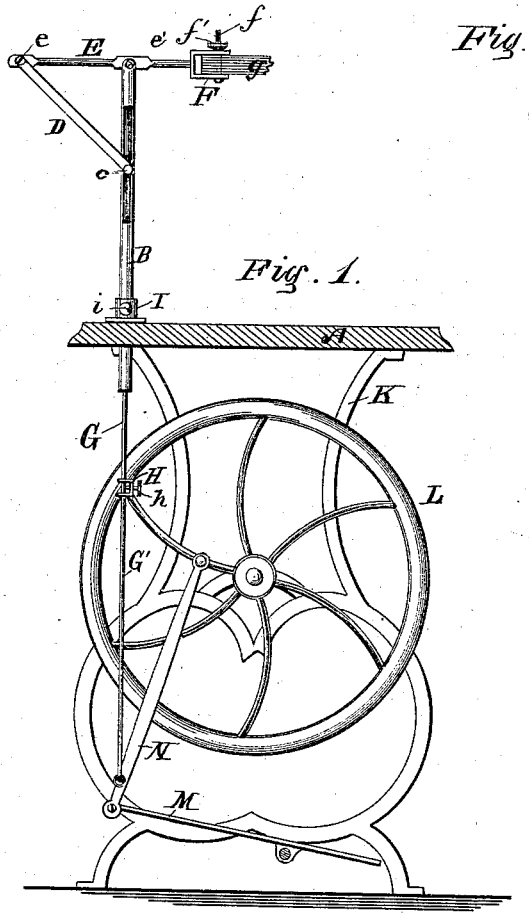


Fig. 2.

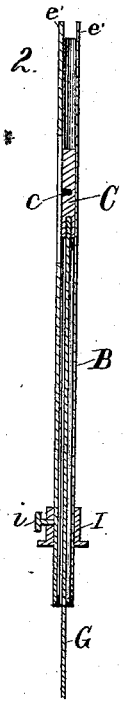


Fig. 6.

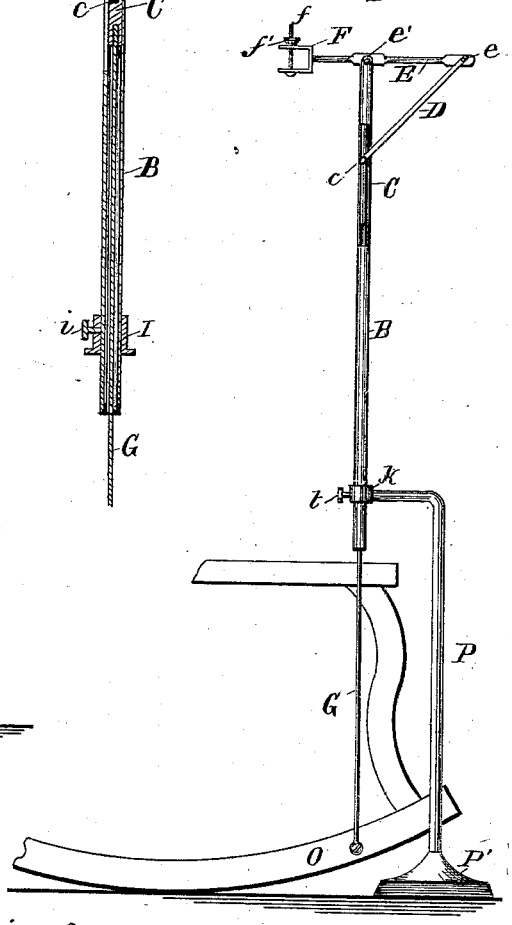


Fig. 3.

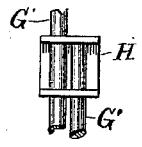


Fig. 4.

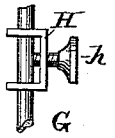
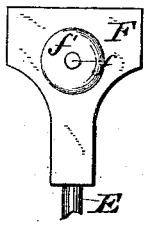


Fig. 5.



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UNITED STATES PATENT OFFICE

ARTHUR A. NAUCK, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO FRED. C. NAUCK AND CHARLES G. NAUCK, OF SAME PLACE.

IMPROVEMENT IN FAN ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **215,388**, dated May 13, 1879; application filed March 22, 1879.

To all whom it may concern:

Be it known that I, ARTHUR A. NAUCK, of Washington, in the county of Washington and District of Columbia, have invented certain new and useful Improvements in Adjustable Fanners for Sewing-Machines; 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, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation of my improved fan, and shows the method of attaching the same to a sewing-machine. Fig. 2 is a vertical longitudinal section through the hollow standard supporting the fan, and shows the mode of operating the same. Fig. 3 is a rear elevation of the clamp for holding the connecting-rods at any desired length; Fig. 4, a side elevation of the same. Fig. 5 is a top-plan view of the clamp for holding the fan; Fig. 6, a side elevation of my improved fan, showing how the same may be attached to a rocking-chair.

This invention consists, first, in certain devices for operating a fan or fans by means of the attachment of said fan or fans to the pitman or treadle of a sewing-machine, or to any machine driven in an analogous manner, by reason of which devices a greater amount of agitation is produced in the air with less expenditure of power than in any other form of fan heretofore constructed; second, the construction of a fan that shall be capable of being operated by other means than the above-named—as, for instance, the attachment of the driving-rod of said fan to the rocker of a chair.

Referring to the drawings, A represents a portion of the table of a sewing-machine; K, the legs of same; L, the driving-wheel; N, the pitman; M, treadle. B is a hollow standard, which supports the fan. The standard B moves or is adjustable up and down in a sleeve, I, which sleeve is secured to the top of the table by screws or otherwise. The standard may be placed at any height, and may also be turned upon its vertical axis, and secured at same by means of the set-screw *i* in I.

Within the standard B, and just fitting the bore thereof, is a block or plunger, C, Figs. 1, 2, and 6. The plunger C is moved up and down in the standard by means of connecting-rods G G′, the upper rod, G, being connected with the plunger by a screw-connection, while the lower end of said rod passes through a clamp, H, in which clamp it is held at any height by means of a set-screw, *h*. To this clamp the upper end of rod G′ is rigidly secured in any known manner, while the lower end of the latter rod is pivoted to the pitman near its junction with the treadle, or at any other point on the pitman; or the rod may be connected directly to the treadle, if desired by the operator. By means of the construction of the clamp H, which construction is shown in Figs. 3 and 4, I am enabled to readily adjust the rods to any given length, while the set-screw *h* serves to securely hold and fasten them together when so adjusted.

E is an oscillating arm, secured or pivoted at its central point in lugs or ears upon the upper part of the standard B. One end of this arm is connected to the plunger C by the rod D and thumb-screw *c*. This thumb-screw is constructed to readily slide up and down in the slot or opening in the side of the standard B, and also allows the arm and rod to be readily taken apart for packing and other purposes. The arm E and rod D are connected in any convenient manner, care being taken to allow the rod to freely work when so connected.

To the opposite end of the arm E is attached a clamp, F, Figs. 1, 5, and 6, for securing the fan. This is effected by means of a screw-bolt, which passes through the clamp from bottom to top, and having upon its upper end a thumb-nut, for the purpose of tightening the clamp upon the fan when the latter is in position (closed or open) within the clamp, as shown in Fig. 1, in which figure *g* represents the stock or handle of an ordinary hand-fan as now in use.

The operation of the fan is as follows: The standard B and rods G G′ being adjusted to the proper height by means of their respective set-screws, and the treadle being worked,

the rods G G′ and the plunger C, to which they are connected, are caused to move up and down, which movement, through the connecting-rod D, causes the arm F to rock, by which the fan is moved vertically, as described.

Fig. 6 is a modification of my improvement, showing the manner of attaching the same to an ordinary rocking-chair. In this figure, O is the rocker of the chair; P, the standard to support the fan mechanism. The upper end of said standard is bent at right angles, and terminates in a bearing, K, through which the hollow standard B passes, and is fastened by means of a set-screw, *t*. The lower end of the standard P is affixed in a heavy metallic or other base, P′, this base to be of sufficient size and weight to steadily support the standard P at all times. The lower end of the connecting-rod G is pivoted in any suitable manner to the rocker O. The fan is worked by the up-and-down motion of the rocker, consequent upon rocking the same.

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

1. In an adjustable fanning device, the hollow standard B, having a slot or opening in its side, the sleeve I, having set-screw *i*, the plunger C, rod G, connecting-rod D, and fan-arm E, having clamp F, all arranged to operate with respect to each other substantially as and for the purpose set forth.

2. In an adjustable fanning device, the standard B, plunger C, connecting-rod D, and fan-arm E, in combination with rods G G′, said rods being adjustably connected together by means of clamp H, secured to rod G, and having separate opening for rod G′ and thumb-screw *h*, substantially as and for the purpose set forth.

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

ARTHUR A. NAUCK.

Witnesses:
E. M. FINCH,
OSCAR NAUCK.