

T. R. Lovett,

Sewing-Machine Fan-Attachment,

N<sup>o</sup> 51,202.

Patented Nov. 28, 1865.

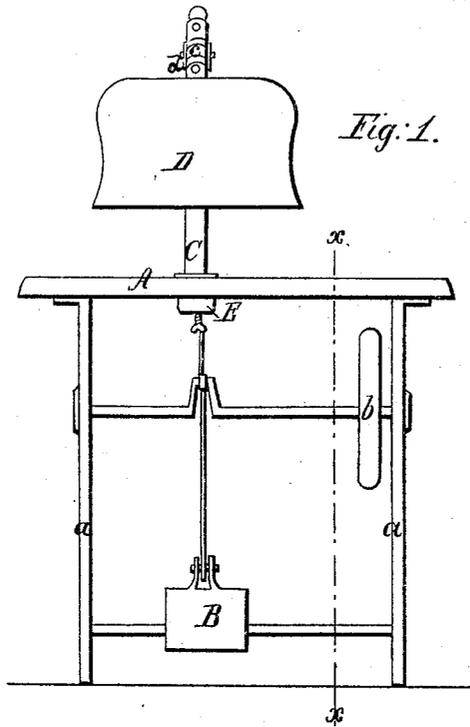


Fig. 1.

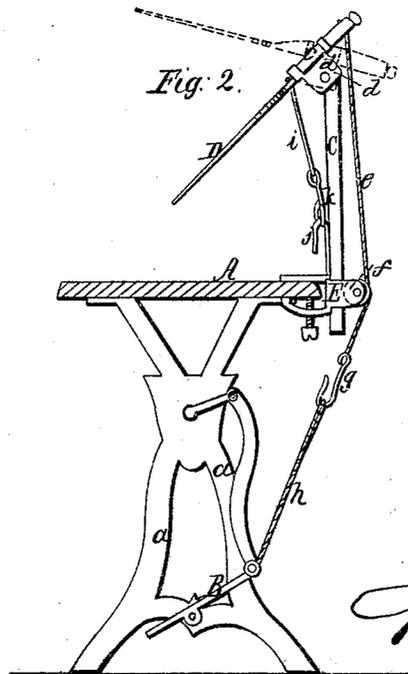


Fig. 2.

Witnesses;  
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# UNITED STATES PATENT OFFICE.

T. R. LOVETT, OF MOUNT AIRY, PENNSYLVANIA.

## IMPROVED AUTOMATIC FAN FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 51,202, dated November 28, 1865.

*To all whom it may concern:*

Be it known that I, T. R. LOVETT, of Mount Airy, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Fan Attachment for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a view of my fan attachment applied to a sewing-machine table. Fig. 2 is a vertical section taken in the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention consists in an improved manner of arranging and applying a fan attachment to a sewing-machine, whereby the power required to operate it is reduced. It is more easily put out of the way when not in use, and every marring or injury of the machine is avoided.

To enable others to understand my invention, I will proceed to describe it.

A represents the table of a sewing-machine, *a a* being its legs, and B the treadle for operating the driving-wheel *b*, all of the ordinary construction.

To the table A, and at the back thereof, and opposite the operator, I attach a standard, C, either by clamping the same thereto so that it may be removed when desired, (E being a clamp suitable for the purpose,) or by securing it in any other suitable manner.

On or near the top of the standard the handle *c* of a fan, D, is hung by a pivot-joint, *d*, in such manner that the fan may be freely oscillated or swung up and down to agitate the air or produce currents therein for keeping the operator cool while at work.

To the outer end of the handle *c* (see Fig. 2) I attach a cord or wire, *e*, and carry it down over a pulley, *f*, at the lower end of the standard, and secure a hook, *g*, to the end thereof.

Another cord or wire, *h*, is attached to the treadle at the back part thereof, which is to be secured to the hook *g* when it is desired to operate the fan.

At the end of the handle nearest the fan I

attach an elastic cord or rubber strap, *i*, having a hook, *k*, which is to be hooked into a staple or hook, *j*, on the standard C, the spring or elastic band *i* being of such a length as to draw down the front end of the handle, and consequently the fan D, after the treadle has drawn down the other end of the handle through the medium of the cords or wires *h e*, and these, operating in conjunction, give to the fan the necessary up-and-down or oscillating motion.

A spiral spring or other contrivance may be employed instead of the rubber band or elastic cord *i*, if desired.

By unhooking the cord or elastic band *i* the fan can be thrown upward and out of the way; and by unhooking the cord or wire *h* the connection between the treadle and the fan will be broken and the fan will remain at rest; and, when desired, the whole arrangement can be removed from the table by unclamping the standard C therefrom.

This fan attachment is simple and operates well; the latter fact being demonstrated by the application of my fan attachment to a full-sized sewing-machine.

In the summer season it is very warm work to sit at a sewing-machine and operate the same, and it is impossible for the operator to cool herself by fanning, or otherwise, as both hands are employed, and it is inconvenient as well as troublesome to use any such fanning devices as are made to operate by clock-work. My fan attachment will therefore be found to be a very desirable and useful acquisition to a sewing-machine.

I am aware that Letters Patent were granted September 23, 1862, to W. I. Spence, for a fan attachment for sewing-machines. This, therefore, I do not claim.

My invention is superior to that of Spence in the following respects:

First, by the use of the spring *i* to move the fan in one direction I am enabled to dispense with the connecting-rod, thus reducing the weight of the apparatus, and consequently reducing the power required to operate it.

Second, by unbitching from the hook *g*, the weight of the handle, or any suitable weight or hook applied to the rear side of the rock-shaft, may be made to turn the fan into a ver-

tical position completely out of the way when not wanted for use.

Third, the entire apparatus is readily removable, not being a permanent fixture upon the machine.

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

The combination of the standard C, fan D,

rock-shaft *d*, spring *i*, hook *j*, and cord or wire *h e*, all arranged to operate in the manner and for the purpose set forth.

THOS. R. LOVETT.

Witnesses:

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