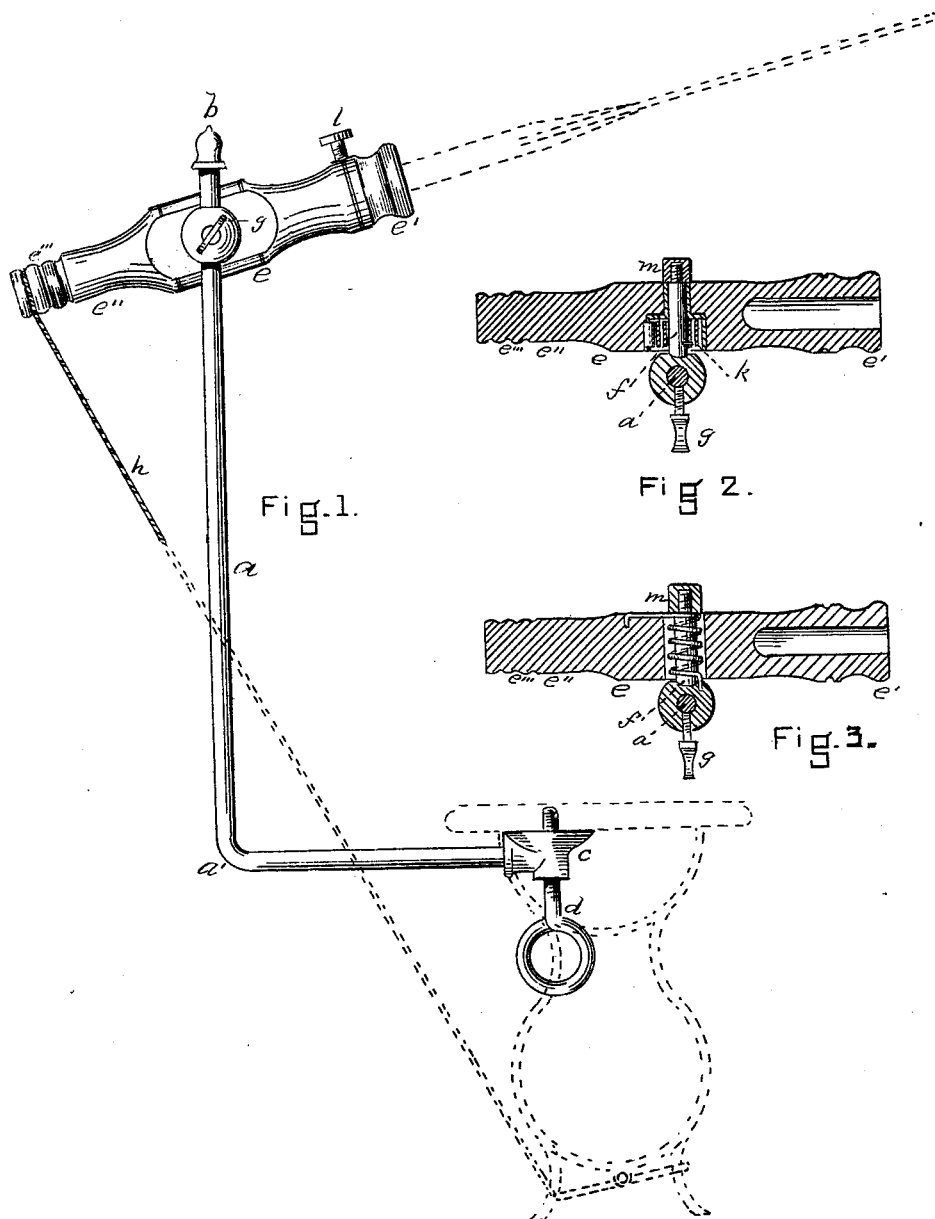


A. H. WATKINS.
Fan Attachment.

No. 218,649.

Patented Aug. 19, 1879.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALBERT H. WATKINS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN FAN ATTACHMENTS.

Specification forming part of Letters Patent No. **218,649**, dated August 19, 1879; application filed June 9, 1879.

To all whom it may concern:

Be it known that I, ALBERT H. WATKINS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Fan Attachments for Sewing-Machines, of which the following is a specification.

This invention relates to a device or attachment adapted to be applied to the tables of sewing or other machines provided with treadles; and consists of a novel combination and construction of parts, arranged as below described, so that the operator may be fanned without any appreciable extra exertion, the power being supplied by the treadle of the machine.

In the accompanying drawings, in which similar letters of reference indicate corresponding parts, Figure 1 is an elevation of my improved device applied to a sewing-machine, the table and treadle being shown in broken lines reduced in size. Fig. 2 is a horizontal section of the lever and spindle and connecting parts. Fig. 3 is a similar sectional view, showing a modification.

a represents a standard, provided with a knob, *b*, at its upper end, usually ornamental in appearance, and serving the purpose of preventing the removal of the spindle by slipping off the top. The standard is bent at *a'* at a right angle, and provided at its lower end with a button-shaped casting, *c*, which is secured firmly to the under side of the table by means of the eyebolt *d*.

e is a lever, pivoted to and tilting upon the spindle *f*, which is secured to the standard by means of the set-screw *g*, thus being free to be raised or lowered or swung round in any direction upon the standard.

The end *e'* of the lever is provided with an opening for the insertion of the handle of the fan, and the end *e''* with annular grooves *e'''*, around one of which is secured the cord *h*, which connects with the treadle of the machine. Moving the cord from one groove to another shortens or lengthens the stroke of the fan.

A coiled spring, *k*, is placed within the lever, around the spindle, one end being secured to each, and a set-screw, *l*, holds the fan in its socket. A nut, *m*, prevents the spindle from separating from the lever.

In practical operation the downward motion of the toe of the treadle, by means of the cord *h*, draws down the end *e''* of the lever and contracts the spring *k*, and the upward motion lets the cord up again, and the expanding spring forces down the end *e'* of the lever, thus making a tilting or walking lever, and imparting vibratory motion to the fan, the position of which is represented by broken lines in Fig. 1.

In Fig. 3 a spiral spring is shown, which is fastened to the spindle and lever, and produces the same effect as the coiled spring *k*. I propose to use either, giving preference, however, to the coiled spring.

The advantage of this device—as cooling the operator, driving away lint, dust, &c.—is obvious.

The attachment is applicable to any table provided with a treadle.

I am aware that reciprocating fans pivoted to standards designed to be attached to the tables of sewing-machines have been heretofore used, and I do not, therefore, desire to claim such a construction, broadly; but

What I do claim as new and useful is—

1. The combination of the adjustable spindle *f*, supporting the lever *e*, with the standard *a*, such spindle embracing said standard and held in position thereupon by means of the set-screw *g*, so that the spindle may be placed at any height or swung in any direction upon the standard, as described.

2. The combination of the lever *e e' e''*, the internal spring, *k*, and the adjustable spindle *f*, and standard *a*, arranged and constructed substantially as and for the purpose specified.

ALBERT H. WATKINS.

Witnesses:

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