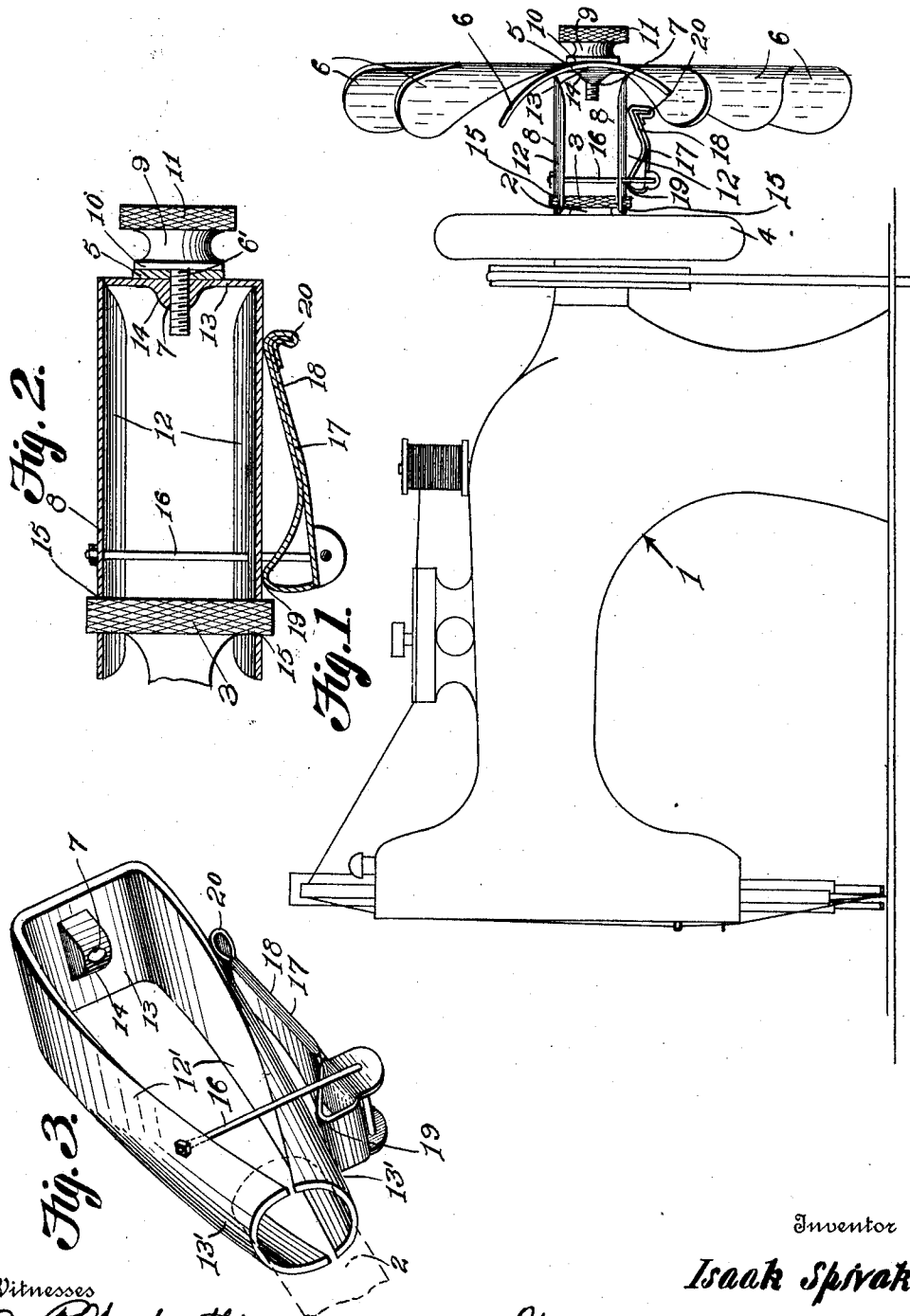


I. SPIVAK.  
ATTACHMENT FOR SEWING MACHINES.  
APPLICATION FILED MAY 5, 1911.

1,003,666.

Patented Sept. 19, 1911.



Witnesses  
*David Woodworth*  
*William C. Linton*

Inventor  
*Isaac Spivak*  
By *Wm. C. Linton*  
Attorney

# UNITED STATES PATENT OFFICE.

ISAAK SPIVAK, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF TO BERNARD SPIVAK, OF ALBANY, NEW YORK.

ATTACHMENT FOR SEWING-MACHINES.

1,003,666.

Specification of Letters Patent.

Patented Sept. 19, 1911.

Application filed May 5, 1911. Serial No. 625,283.

*To all whom it may concern:*

Be it known that I, ISAAK SPIVAK, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in 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.

This invention relates to attachments for sewing machines, whereby the rotative motion of the needle-bar shaft may be utilized for operating a fan, and thus create a circulation of air, which is especially desirable and advantageous in sweat shops and other work rooms where a number of sewing machines are operated, to add to the comfort of the operators.

Another object is to simplify devices of this character, rendering them comparatively simple and inexpensive to manufacture, reliable and efficient in use, and which may be easily and quickly attached or detached, and operated by the treadle of the machine, and without interfering with the ordinary operation of the same.

With the above and other objects in view, this invention resides in the novel features of construction, formations, combinations and arrangements of parts to be hereinafter more particularly described, claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my invention applied; Fig. 2 is a vertical longitudinal sectional view taken through my improved attachment, and Fig. 3 is a detailed perspective view illustrating the clamping means.

In the drawing I have shown an ordinary sewing machine 1, having a needle-operating shaft 2, the enlarged end 3 of which projects beyond a hand-wheel 4, and it is to this large projecting end that my invention is to be secured.

The fan consists essentially of a disk 5, having formed integral thereon laterally extending blades 6, of suitable form to drive the air in the direction of the operator.

The disk 5 of the fan has an opening 6',

registering with an opening 7 formed in a spring clasp 8. Extending through the said opening and detachably securing the blades to the clamp is a set screw 9. This set screw has a stop 10 to bind against the disk 5 of the fan, and an outer disk or handle 11 for adjusting the same.

The spring clasp 8, which secures the fan to the enlarged end of the needle-shaft, is composed of one continuous piece of sheet metal bent to form two parallel spring arms 12, which are connected by a transverse portion 13.

Centrally located in the transverse portion 13 of the clamp 8 is an aperture, having formed in alinement therewith a threaded embossed portion 14 to receive the set screw 9, which securely holds the fan to the transverse portion of the clamp.

Formed in the spring arms 12, adjacent their ends, are transversely extending slots 15, through which extends the enlarged head 3 of the needle-operating shaft 2, to prevent any longitudinal sliding of the clamp when the fan is being turned at a high speed.

To prevent any spreading of the spring arms 12, I provide a cam operating clamping means, which consists of a wire member 16, the ends of which are secured to the upper spring arm 12, and its parallel side portion extending through openings formed in the lower spring arm. The parallel side portions of the wire member 16 are connected by a transverse portion, to which is pivotally secured a cam lever 17. This cam lever 17 is made of one piece of sheet metal bent to form a handle 18, then to an enlarged portion forming a cam face 19, and then back upon the handle to a downwardly extending lip portion 20, which forms a gripping portion to operate said handle.

In the modified form of the clamp, as shown in Fig. 3 of the drawing, the arms 12' are bent, as at 13', to conform to the configuration of the needle-operating shaft, spindle, or the like, which are not provided with the enlarged portion 3, as shown.

Although the elements shown and described are well adapted to accomplish the purpose for which they are intended, it is to be understood that slight changes can be made in the construction set forth without

departing from the principle or sacrificing any of the advantages of the invention, which come within the scope of the claim.

Having described my invention, what I claim and desire to protect by Letters Patent is:

10 A fan attachment for a sewing machine, consisting of a clamp made of one continuous piece of sheet metal, the ends of which are provided with slots which extend around a rotary member, cam operating means secured to said clamp for securely holding said clamp to said rotary member, a

fan provided with an aperture registering with an aperture formed in said transverse portion of said clamp, and a set screw extending through said aperture for connecting said fan with said transverse portion, substantially as described. 15

In testimony whereof I affix my signature in presence of two witnesses. 20

ISAAK SPIVAK.

Witnesses:

BERNARD SPIVAK,  
ROBERT C. POSKANZER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."