

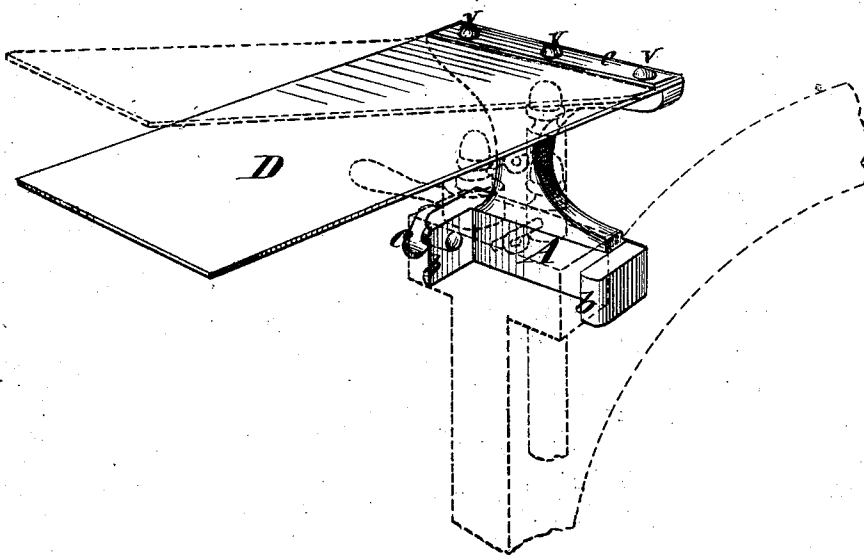
G. A. & O. ECKERT.

Sewing-Machine Fan-Attachments.

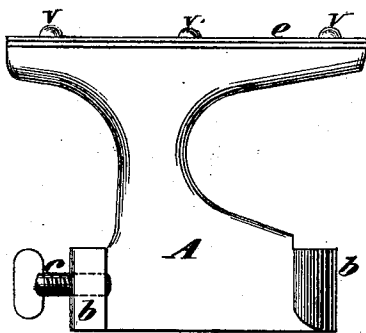
No. 149,454.

Patented April 7, 1874.

*Fig. 1.*



*Fig. 2.*



*Witnesses*  
*John Becker*  
*Fred. Hayes*

*George A. Eckert*  
*Ober Eckert*  
*by his attorney*  
*Rombeckler*

# UNITED STATES PATENT OFFICE.

GEORGE A. ECKERT AND OWEN ECKERT, OF SIEGFRIED'S BRIDGE, PA.

## IMPROVEMENT IN SEWING-MACHINE FAN ATTACHMENTS.

Specification forming part of Letters Patent No. **149,454**, dated April 7, 1874; application filed March 3, 1874.

*To all whom it may concern:*

Be it known that we, GEORGE A. ECKERT and OWEN ECKERT, both of Siegfried's Bridge, in the county of Northampton and State of Pennsylvania, have invented an Improvement in Fan Attachments to Sewing-Machines, of which the following is a specification:

The object of our invention is to produce a cheap and simple fan attachment for sewing-machines, dispensing with all levers and complications incident to fan attachments as now in use.

Our invention consists in the combination of a fan, constructed of pasteboard or other similar elastic material, with a clamp of suitable construction, to be attached to some stationary portion of the machine, (preferably the head,) in such a position that the fan is struck by some oscillating or reciprocating portion thereof, (preferably the needle-bar,) and is thus, with each oscillation or reciprocation, deflected from its natural position, flying back by its own elasticity when, by the return stroke, it is relieved from the pressure which deflected it.

In the drawing, Figure 1 is a view of the fan attachment as attached to the head of a sewing-machine, the portions of the sewing-machine being indicated in dotted outlines. Fig. 2 is a front elevation of the clamp.

A is the body of the clamp, with jaws *b b*, through one of which jaws passes the screw *c*. D is the fan, of pasteboard or other suitable elastic material, secured at its end edge between the strip of sheet metal *e* and the top of the clamp by the tacks or rivets *v v*.

When the clamp is placed upon the sewing-machine head, as shown in Fig. 1, and made fast by turning the screw *c*, and the machine is put in motion, the needle-bar of the machine, in rising, strikes and forces up the fan. When the needle-bar descends, the fan flies downward by its own elasticity, thus giving an upward and downward motion of the fan with each stroke of the needle-bar.

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

The combination of the fan with the clamp A, constructed and adapted for attachment to the head or other stationary part of the sewing-machine, and arranged in position for the fan to be struck and vibrated by the needle-bar during every stroke of the latter in one direction, substantially as herein described.

G. A. ECKERT.  
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Witnesses:

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