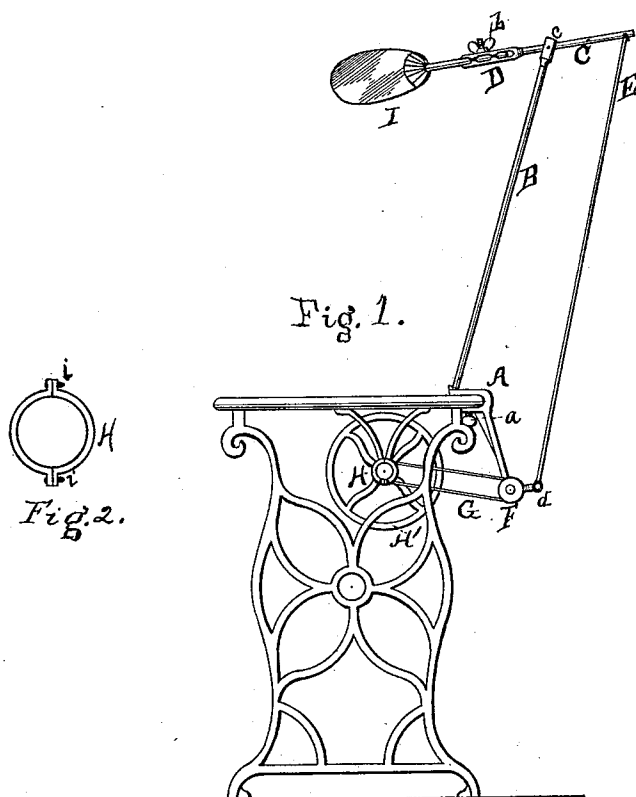


(Model.)

C. D. STEWART.
Fan Attachment for Sewing Machine.

No. 234,818.

Patented Nov. 23, 1880.



Witnesses.

A. O. Balzer.
J. M. Wolcott, Jr.

Carson D. Stewart, Inventor

By Tracy, Dyer & Wilber,
Attorneys.

UNITED STATES PATENT OFFICE.

CARSON D. STEWART, OF CLEVELAND, OHIO.

FAN ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 234,818, dated November 23, 1880.

Application filed July 3, 1880. (Model.)

To all whom it may concern:

Be it known that I, CARSON D. STEWART, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Machine-Fans; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to certain new and useful improvements in fans designed to be attached to and operated in conjunction with the ordinary sewing-machine, thus affording a means of obtaining a circulation of air for the benefit of the operator, and without materially adding to the draft of the machine or the power required to run it.

The want of such a fan for sewing-machines, which requires little or no more power to run it than would be demanded by the machine alone has long been felt; and my invention is especially intended for this purpose, and to be used in factories where the air is necessarily close and unwholesome, the ventilation in such places and in all close rooms being at most times bad and the air hot and impure.

My invention is designed to obviate this fault and furnish a cool and refreshing breeze for the operator; and the invention therein consists in the peculiar construction, arrangement, and combination of the various operative parts of my device, all as more fully hereinafter explained.

In the drawings, Figure 1 is a vertical elevation of my improved sewing-machine fan as attached to the table of an ordinary sewing-machine. Fig. 2 is a divided pulley-wheel, which is attached to the axle or shaft of the machine to communicate power and motion to the fan.

A, Fig. 1, is a dog, which is fastened to the table-top by the thumb-screw *a*. B is a slender rod, attached to the dog and of suitable length to bring the upper end nearly horizontal with or a little above the operator's face, and having on its end the holder *c*, in which is pivoted the rocking bar C. This rod is provided with a jaw, D, by means of which the fan I may be received and firmly held in any desired position, the thumb-screw *b* binding it in the jaw.

The dog A, already alluded to, is provided with a laterally downwardly projecting arm, with its end formed into a loop to act as a bearing for the pulley F, whose bearing-shaft passes therethrough and is pivoted on the opposite side of said arm. This pulley has a small arm or crank, *d*, projecting outwardly from its perimeter and slightly at an angle to the outer surface of said pulley. To this arm is attached one end of the rod E, while its other end is connected to the free end of the rocking bar C, as shown in Fig. 1.

H is a pulley divided equally, as shown in Fig. 2, and designed to be bolted by nuts *i i* to the shaft of the sewing-machine or the hub of the drive-wheel. The object of having a divided pulley is to afford a ready adjustment of the pulley to the driving-shaft at any place desired without the removal of said shaft from its bearings. This pulley transmits the motion of the wheel H' to the pulley F, and by means of the rod E a vibratory movement is given to the fan I.

The fan may be caused to describe a greater or less arc in its movement by fastening the rod E at different points upon the rod C, holes being provided in the latter for this purpose at various portions of its length.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a fan attachment for sewing-machines, the combination of the dog A, carrying the rod B, with its rocking bar C, as described, and rod E connecting the free end of said rocking bar with pulley F, having its bearing in an arm projecting downwardly from said dog, substantially as described and shown.

2. In combination with the fan attachment, as described, the divided pulley H, whereby said attachment may be readily adjusted to and operated from the driving-shaft of the sewing-machine, substantially as described and shown.

This specification signed and witnessed this 12th day of April, 1880.

CARSON D. STEWART.

Witnesses:

GEO. C. TRACY,
A. O. BALZER.