

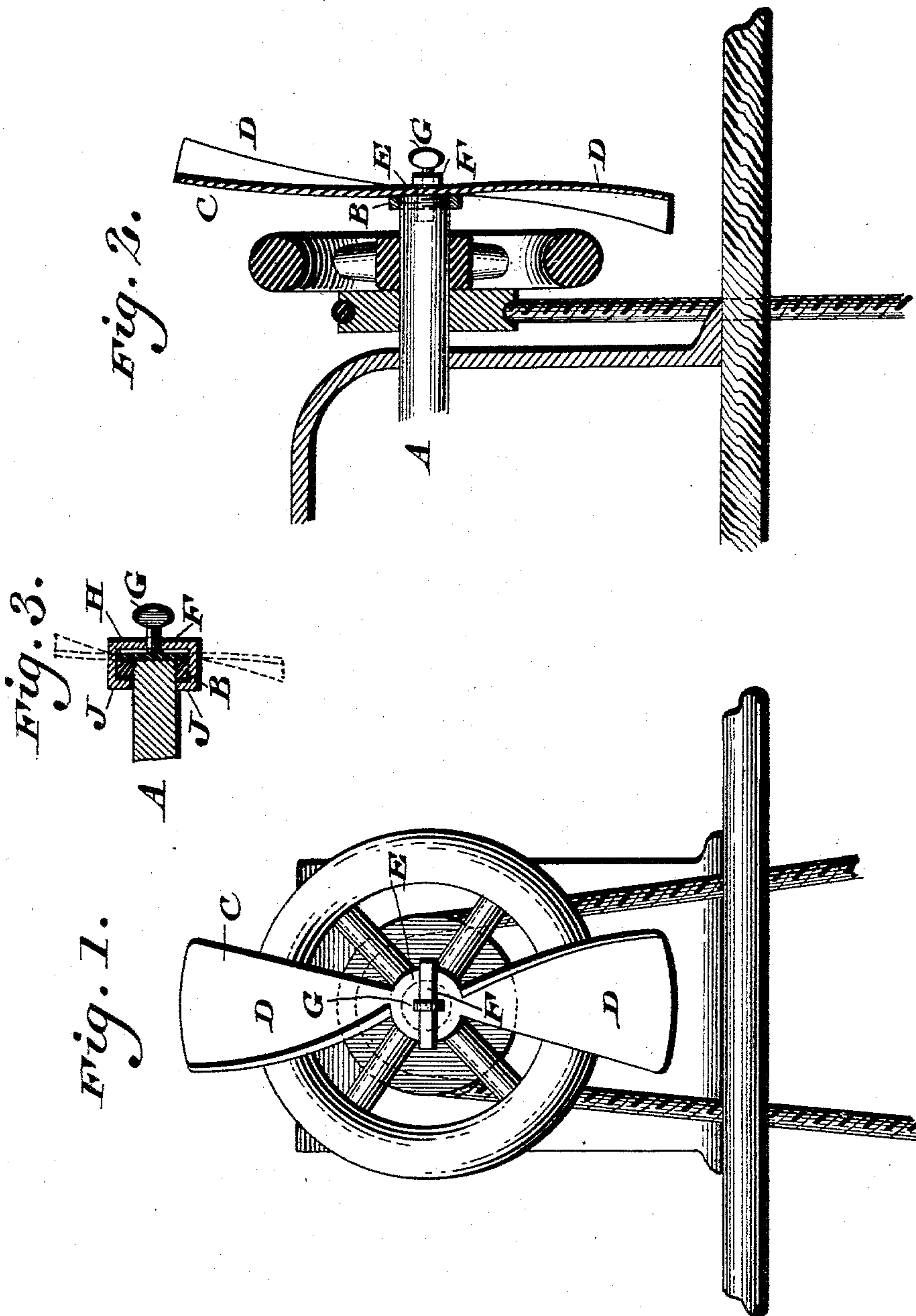
(No Model.)

L. E. FISHER.

FAN ATTACHMENT FOR SEWING MACHINES.

No. 589,706.

Patented Sept. 7, 1897.



WITNESSES:

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LÉONIDE EMMA FISHER, OF MONTOURSVILLE, PENNSYLVANIA.

FAN ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 589,706, dated September 7, 1897.

Application filed October 21, 1896. Serial No. 609,540. (No model.)

To all whom it may concern:

Be it known that I, LÉONIDE EMMA FISHER, residing at Montoursville, in the county of Lycoming, State of Pennsylvania, have invented a new and useful Improvement in Fan Attachments for Sewing-Machines, which improvement is fully set forth in the following specification and accompanying drawings.

My invention has for its object an attachment for a sewing-machine adapted for fanning purposes; and it consists of means whereby a fan may be conveniently, quickly, easily, and reliably connected with a movable member of said machine and receive power therefrom.

Figure 1 represents the end elevation of a fan attachment for a sewing-machine embodying my invention. Fig. 2 represents a partial side elevation and a partial section thereof. Fig. 3 represents a section of a detached portion.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the driving-shaft of a sewing-machine, the same being provided with a shoulder or head B on the end thereof.

C designates a fan consisting of the blades D and the hub or neck E, which latter is placed parallel with the end of the shaft A and retained in position by means of the clamp F and screw G, said clamp consisting of a cross-bar H and hooks or lips J on the ends thereof, the screw being fitted on said bar and adapted to tightening against the neck E and press the same against the end of the shaft and head B.

It will be noticed that when the fan is located the lips J are slipped over the periphery of the head B, after which the screw is tightened, whereby the fan is firmly attached to

the shaft, and the clamp is effectively connected with the shaft and prevented from disengaging therefrom, owing to the interlocking action of the lips J with the shoulder or head B on said shaft, it being also noticed that when the machine is running power is imparted to the fan, the effect of which is evident.

When the screw is properly rotated, the clamp may be removed from the head and the fan from the shaft without in any manner affecting the nature of the machine or changing the operation thereof.

If desired, the point of the screw G may be passed through the neck of the fan, tightening the end of the shaft, in which case an opening is made in said neck in which to receive the screw, whose point will bear partly against the neck, forcing the latter firmly against the end of the shaft.

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

1. In a fan attachment, a shaft with a shoulder on one end thereof, a fan with a hub on said end, a clamp having lips engaging with said shoulder, and a screw on said clamp bearing against said hub.

2. A fan adapted to be connected with a movable member of a sewing or other machine and a clamp therefor consisting of a bar with lips on the end thereof and a screw, said lips being attachable to a head or shoulder of said member and said screw being adapted to force the neck of the fan against the end of said member adjacent to said head.

LÉONIDE EMMA FISHER.

Witnesses:

DAVID TRUMP,
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