

No. 627,124.

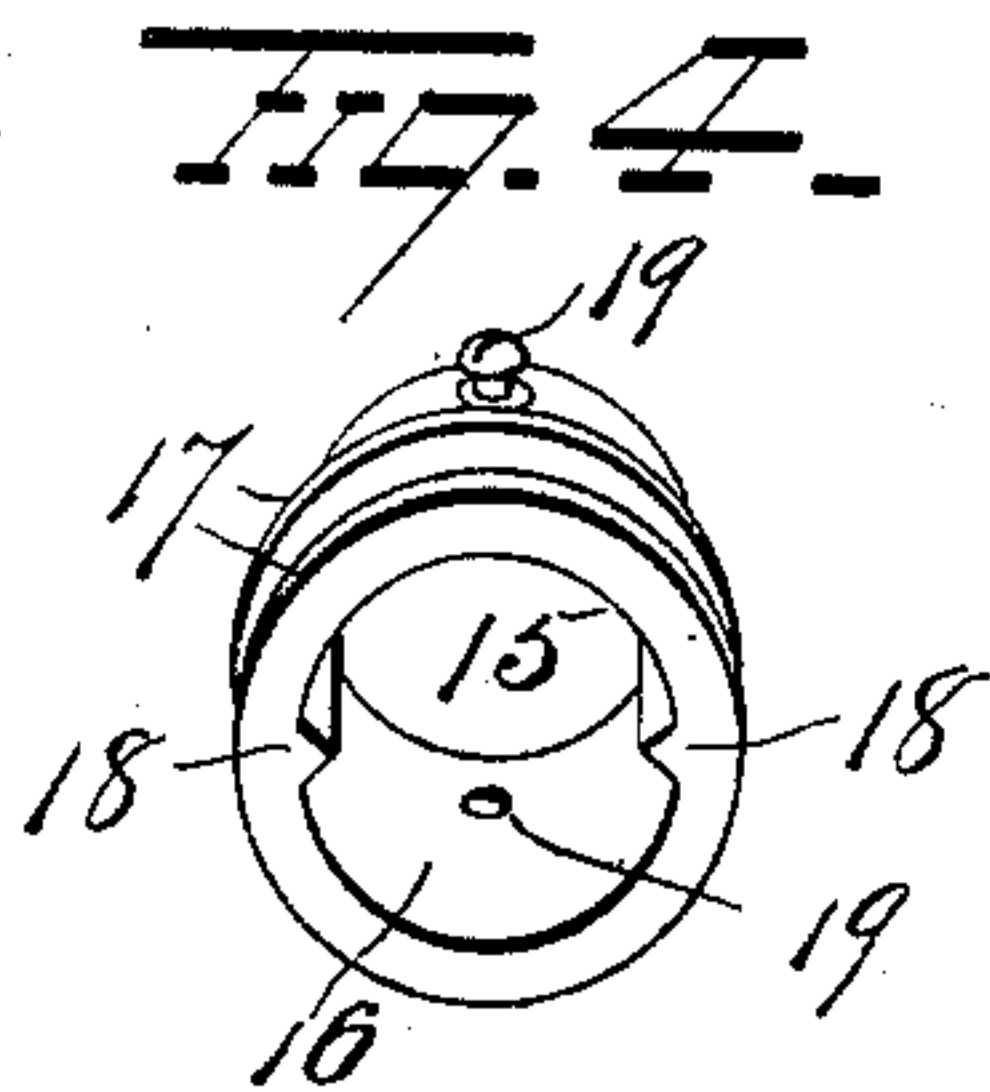
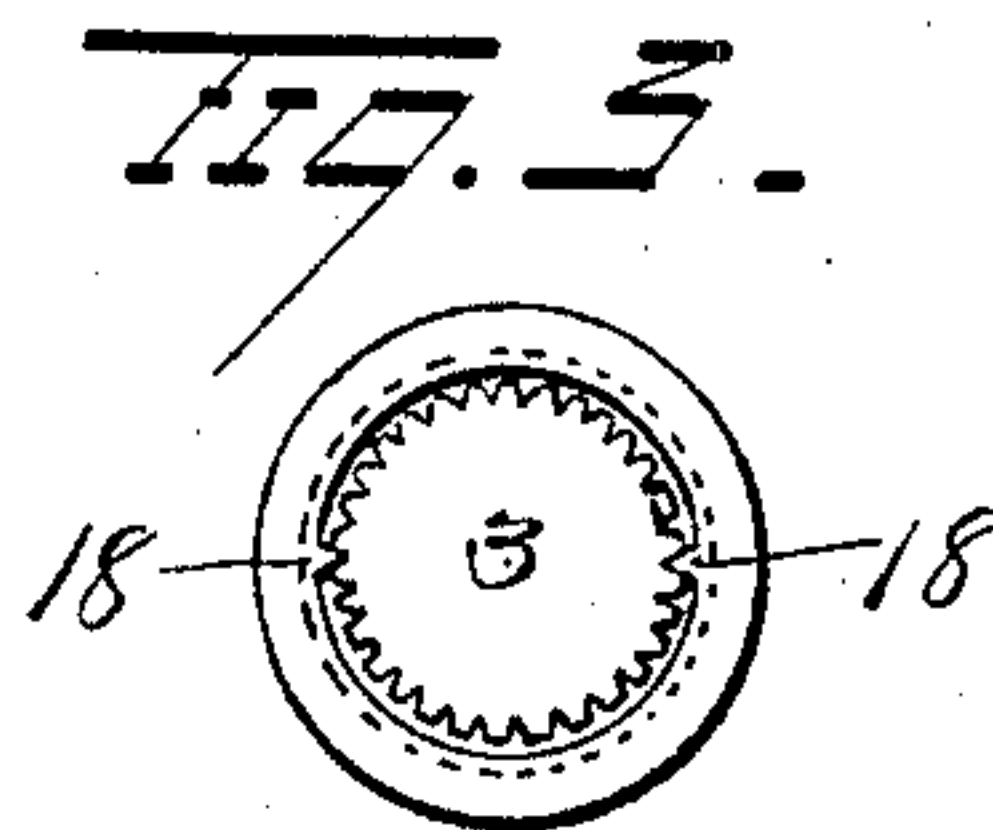
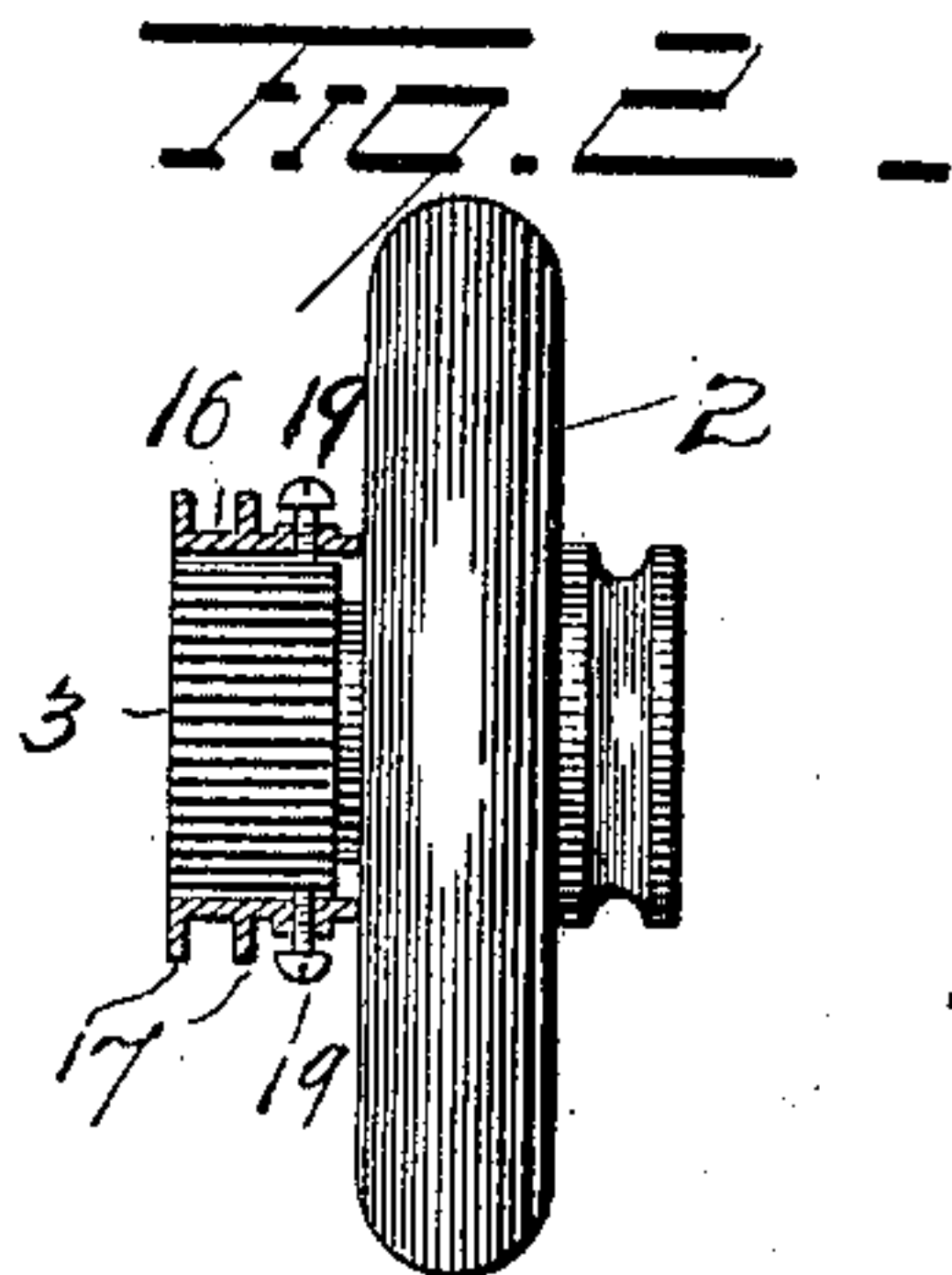
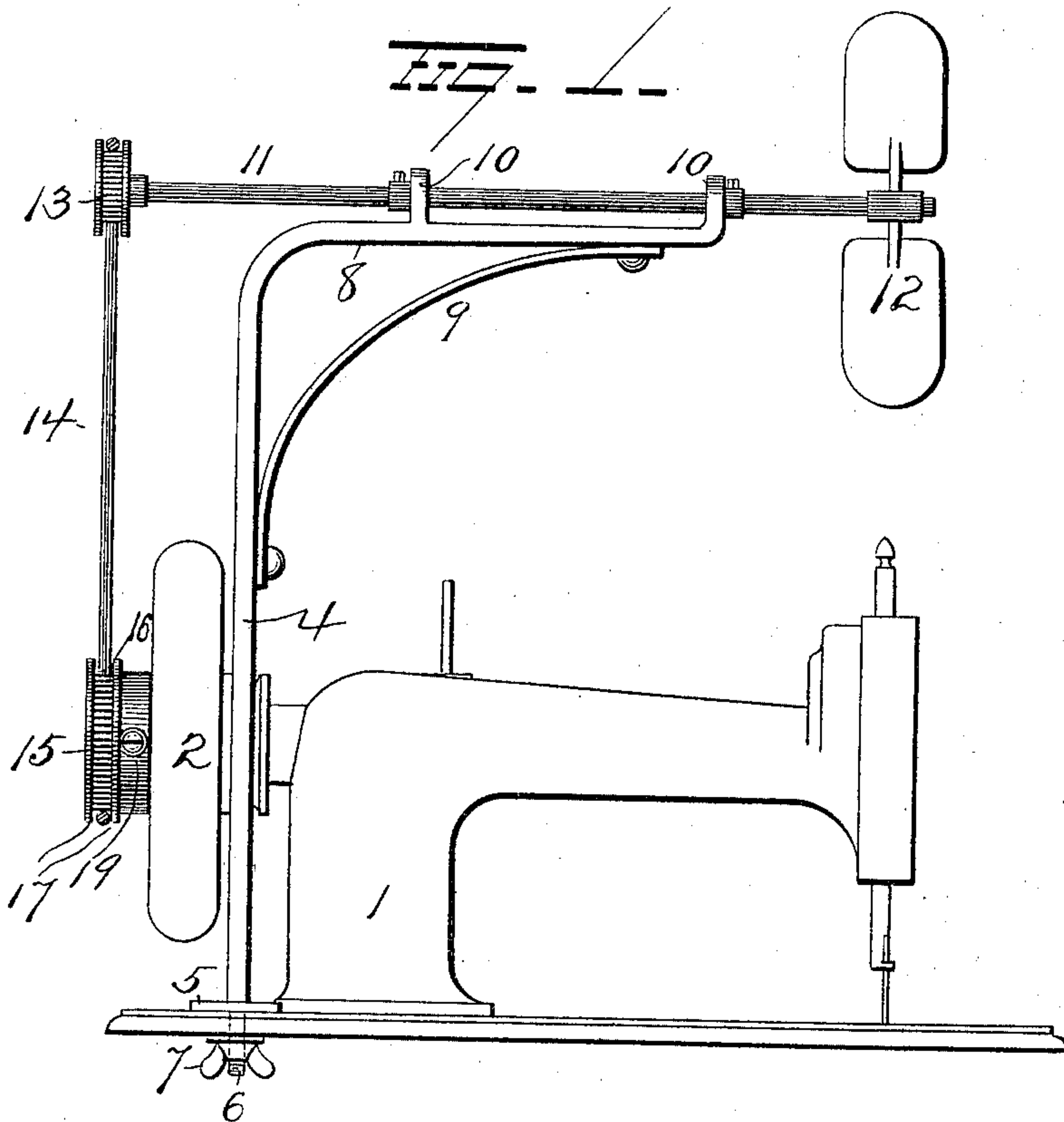
Patented June 20, 1899.

E. KEMNITZ.

FAN ATTACHMENT FOR SEWING MACHINES.

(Application filed Nov. 3, 1898.)

(No Model.)



WITNESSES
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EMIL KEMNITZ, OF MEMPHIS, TENNESSEE.

FAN ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 627,124, dated June 20, 1899.

Application filed November 3, 1898. Serial No. 695,386. (No model.)

To all whom it may concern:

Be it known that I, EMIL KEMNITZ, a resident of Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Fan 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.

My invention relates to an improvement in fan attachments for sewing-machines, the object of the invention being to provide a device of the above character which can be easily connected to a sewing-machine and as easily removed therefrom.

A further object is to provide a fan attachment for a sewing-machine which will be so constructed that when it is connected with a sewing-machine the operating mechanism for said fan can be readily disconnected from or connected with the operating mechanism of the sewing-machine.

With these objects in view my invention consists in a shaft adapted to be removably mounted on a sewing-machine, a fan secured at one end of said shaft, and a pulley secured at the other end of said shaft, a drive-pulley adapted to be sprung over the milled head of the clutch device of the sewing-machine, and an endless cord or strap passing around said pulleys.

The invention further consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective illustrating my improvements, and Figs. 2, 3, and 4 are detail views of my improved operating-pulley.

1 represents a sewing-machine of any approved construction, having the usual hand-wheel 2 and bobbin-winding clutch mechanism operated by the milled head 3, as usual.

My improved fan attachment comprises a vertical standard or support 4, provided at its lower end with extended bearing-plates 5 and a downwardly-extending screw 6, adapted to pass through the table of the machine, and a thumb-nut 7 is adapted to be screwed on said screw 6 beneath the table of the sewing-machine, and hence rigidly and removably secure the standard or support 4 in place. The upper end of the standard or support 4 is bent at right angles to form a horizontal arm 8, and any suitable brace 9 may be secured to the standard or support 4 and arm 8, and said brace 9 may be in the form of an ornamentation. The horizontal arm 8 is provided with upwardly-extending parallel ears 10, preferably integral with the said horizontal arm, and each ear is provided with a hole or opening for the reception of a shaft 11. The shaft 11 may be provided with any suitable stops or enlargements to prevent its removal from the ears 10 and is provided at one end with any suitable fan 12, which is secured thereto and adapted to turn therewith. A pulley 13 is secured to the other end of said shaft 11, and an endless cord, strap, or chain 14 is passed around said pulley and adapted to turn same, and the said cord, strap, or chain 14 also passes around and is operated by my improved pulley 15, which will now be described. The pulley 15 is composed of spring metal or other suitable material and comprises a cylindrical body portion 16, preferably of a diameter slightly larger than the diameter of the milled head 3, hereinbefore referred to. Parallel flanges 17 are formed on the periphery of the body portion 16 for the reception of the endless cord, strap, or chain 14, and the body portion 16, between the parallel flanges 17, is roughened or the surface made irregular, whereby to more firmly engage the cord, strap, or chain and prevent slipping. The inner face of the cylindrical body 16 is provided with oppositely-disposed lugs or teeth 18, whereby to engage the milled head 3 between its corrugations and secure the pulley 15 thereto. When it is desired to apply the pulley on the milled head, it is simply necessary to grasp the pulley at opposite points between the lugs or teeth 18 and compress same, which will force the teeth or lugs 18 away from each other. The pulley can then be easily placed over the milled head 3, and when in this position the operator simply withdraws the pressure on the pulley and the lugs or teeth 18 will spring between corrugations or projections on the milled head 3 and insure the turning of the pulley with the milled head when the latter revolves. If de-

sired, a screw 19 may be screwed through the cylindrical body 16 of the pulley 15 to guard against any possibility of lateral displacement of the pulley 15 from the head 3.

5 The operation of my improved fan attachment is as follows: Motion is transmitted through the usual operating mechanism of a sewing-machine to the hand-wheel 2 and milled head 3. The pulley 15 being secured
10 on the milled head 3 will be turned therewith, and the endless cord, strap, or chain around said drive-pulley will communicate motion to the pulley 13 and through the shaft 11 to the fan 12.

15 Various slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood
20 that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. A fan attachment consisting of a bracket, a fan revolvably mounted on said bracket and
30 carrying a pulley, a collapsible pulley adapted to be carried by a head or extension on the hub of the fly-wheel of a machine, said col-

lapsible pulley having an internal diameter appreciably greater than the diameter of said head or extension, teeth within said collapsi- 35 ble pulley at diametrically opposite points and adapted to engage said head or extension, the collapsible pulley being adapted to be applied to the head or extension by squeezing said pulley at points at right angles to said 40 teeth and a strap connecting said pulleys.

2. The combination in a fan attachment, of a shaft carrying a fan and a pulley, a collapsible pulley adapted to be carried by a milled head on a revoluble part of a machine, said 45 collapsible pulley having an internal diameter appreciably greater than the diameter of the milled head to which it is to be applied, and having internal teeth at diametrically opposite points, adapted to engage said milled 50 head, set-screws passing through said collapsible pulley at points at right angles to said teeth the collapsible pulley being adapted to be applied to the milled head by squeezing said pulley at points at right angles to said 55 teeth and a strap connecting said pulleys.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EMIL KEMNITZ.

Witnesses:

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