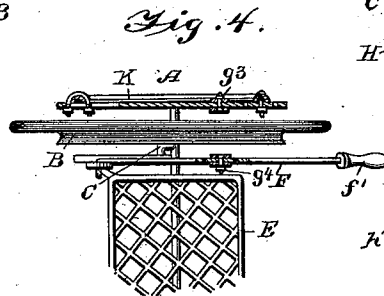
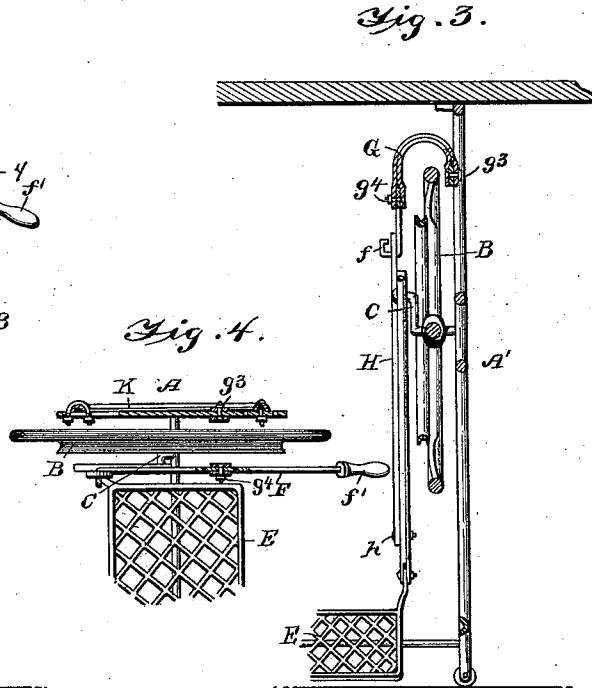
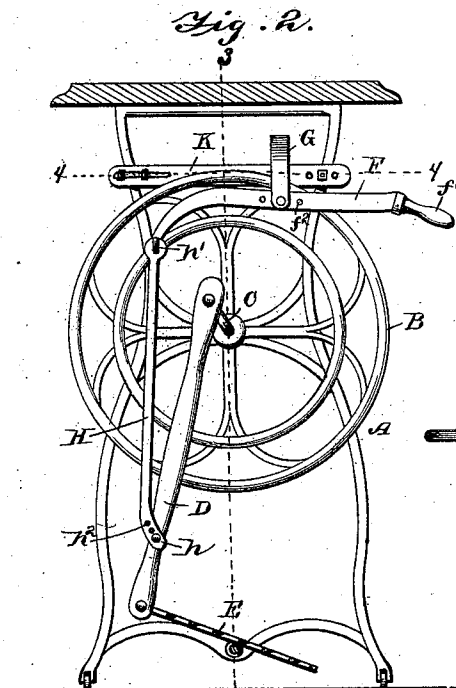
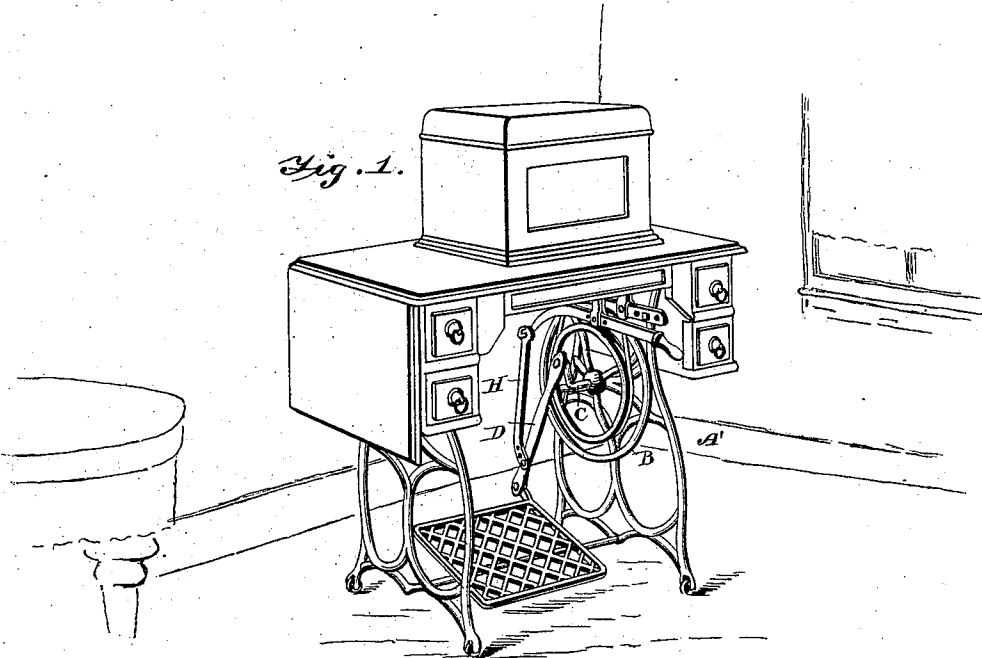


(No Model.)

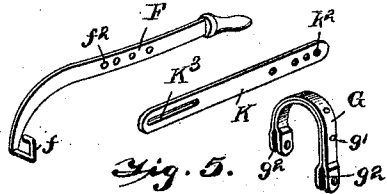
L. MOYER.
SEWING MACHINE ATTACHMENT.

No. 574,929.

Patented Jan. 12, 1897.



WITNESSES:
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LAFAYETTE MOYER, OF FELICITY, OHIO.

SEWING-MACHINE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 574,929, dated January 12, 1897.

Application filed May 7, 1896. Serial No. 590,558. (No model.)

To all whom it may concern:

Be it known that I, LAFAYETTE MOYER, residing at Felicity, in the county of Clermont and State of Ohio, have invented a new and Improved Sewing-Machine Attachment, of which the following is a specification.

This invention relates generally to sewing-machines, and more particularly to an improved means for operating said machine by hand instead of foot power.

The object of the invention is to provide an exceedingly cheap and simple form of apparatus which can be attached to any of the machines now in use, whereby the machine can be driven by hand whenever it is inconvenient to operate the same by foot.

Another object is to provide an appliance which will not interfere in the least with the foot mechanism now in use and whereby both can be used upon the machine at one and the same time.

Another object is to provide an attachment which can be adjusted to suit various-sized machines and can also be adjusted in regard to the leverage, in order to compensate for the excess or lack of strength in the operator.

Another object is to provide an attachment in which the connection with the main pitman will be as nearly in line with said pitman as possible, in order to render the operation as easy as possible.

Another object of the invention is to provide an appliance which is so constructed and attached in such a manner as to be entirely out of the way when the machine is being operated by foot-power.

With these various objects in view my invention consists in the peculiar construction of the several parts and in their novel combination or arrangement, all of which will be fully described hereinafter, and pointed out in the claim.

In the drawings forming a part of this specification, Figure 1 is a view showing my invention in use. Fig. 2 is a side view of the attachment, together with the drive-wheel, pitman, and treadle of an ordinary sewing-machine. Fig. 3 is a sectional view on the line 3 3 of Fig. 2. Fig. 4 is a sectional view on the line 4 4 of Fig. 2, the drive-wheel, however, being shown in elevation. Fig. 5 shows details of construction.

Inasmuch as my invention is applicable to all classes of sewing-machines, I have shown the same in the drawings as applied to an ordinary machine A, supported upon the usual form of skeleton frame A'. This machine has the usual form of compound drive-wheel B, operated by the crank-shaft C, pitman D, and treadle E, said treadle of course being used whenever the machine can be driven by foot-power; but in case the operator is incapacitated from operating the machine by the foot I provide an improved hand-operating appliance, which forms the essential feature of my invention, and in providing such an attachment I employ the hand-lever F, which is pivotally supported in the end of a hanger-bracket G and connected at its inner or rear end with a link or pitman H, which pivotally connects at its lower end with the main pitman D by means of a pin *h*, the upper end of said link or pitman H having an eye *h'*, which engages the hooked end *f* of the lever F, said hook being essentially rectangular in form, as shown most clearly in Fig. 5, in order to prevent any possible disengagement of the parts. The forward end of the lever has a suitable handle *f'*, said end of the lever projecting out a short distance to the front of the machine and within convenient reach of the operator when sitting close to the machine in proper position for sewing.

The hanger-bracket G is attached to a supporting rod or bar K, which is rigidly attached to the side member of the frame by means of bolts and staples *k* and *k'*, respectively.

Referring more particularly now to the details of construction, it will be noticed that the supporting rod or bar K has a series of perforations *k*² near one end, through which the fastening-bolts *k* are passed, while at the opposite end is produced an elongated slot *k*³, through which the ends of the staple *k'* are passed, and by having a series of perforations *k*² at one end and an elongated slot *k*³ at the opposite end it is obvious that the said rod or bar can be readily attached to any of the sewing-machines now in use, inasmuch as there is considerable room for the adjustment of the bolts and staples, it being understood that the bolt passes through one member of the frame, while the staple passes around another portion of said frame.

The hanger-bracket G is preferably composed of two pieces g , riveted together, as shown at g' , said bracket being bifurcated, as shown at g^2 , in order to fit upon the supporting rod or bar and also receive the operating-lever, said bracket being secured upon the rod or bar by means of a suitable bolt g^3 , and the lever is pivotally supported in the other end of the hanger-bracket by means of a bolt g^4 . This lever F also has a series of perforations f^2 , through which the pivotal bolt passes, the purpose of having a series being to permit the lever to be adjusted in or out to regulate the leverage according to the strength of the operator, and the lower end of the link or pitman H also has a series of perforations h^2 , which are for the same purpose of adjustment. It will thus be seen that the appliance can be quickly and easily attached and detached, and it will also be noticed that all of the parts are adjustable, thereby permitting any convenient adjustment to be had. By means of this improved appliance the machine can be driven by foot-power whenever convenient, and when foot-power is not convenient the machine can be driven equally as well by hand-power, without making any changes whatever in the operating mechanism of the machine.

While I have shown and described my invention particularly as an attachment to sewing-machines, it will of course be understood that my invention can be applied to the machine at the time of manufacture, and thereby

serve as a valuable adjunct to the ordinary machine. It will also be understood that the attachment can be made and sold separate, and it is with this object in view that I have made ample provision for the accommodation of all classes of machines by the adjustability of all the parts.

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

In a sewing-machine attachment, a supporting rod or bar having a series of perforations near one end, and the elongated slot at the opposite end, the bolts and staples for securing said rod or bar, the curved or arched hanger-bracket composed of two pieces riveted together and bifurcated at their ends, said hanger-bracket being rigidly attached to the supporting rod or bar, the hand operating-lever supported in said bracket, and provided with a series of perforations for adjustment, the rectangular-shaped hook at the rear end of said lever, and the connecting link or pitman attached to said hook, and having a series of perforations at its lower end for adjustable connection with the main pitman of the sewing-machine, substantially as shown and described.

LAFAYETTE MOYER.

Witnesses:

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