(No Model.)

J. M. GRIEST.

ATTACHMENT HOLDER FOR SEWING MACHINES.

No. 381,546. Patented Apr. 24, 1888.

Fig. 1.

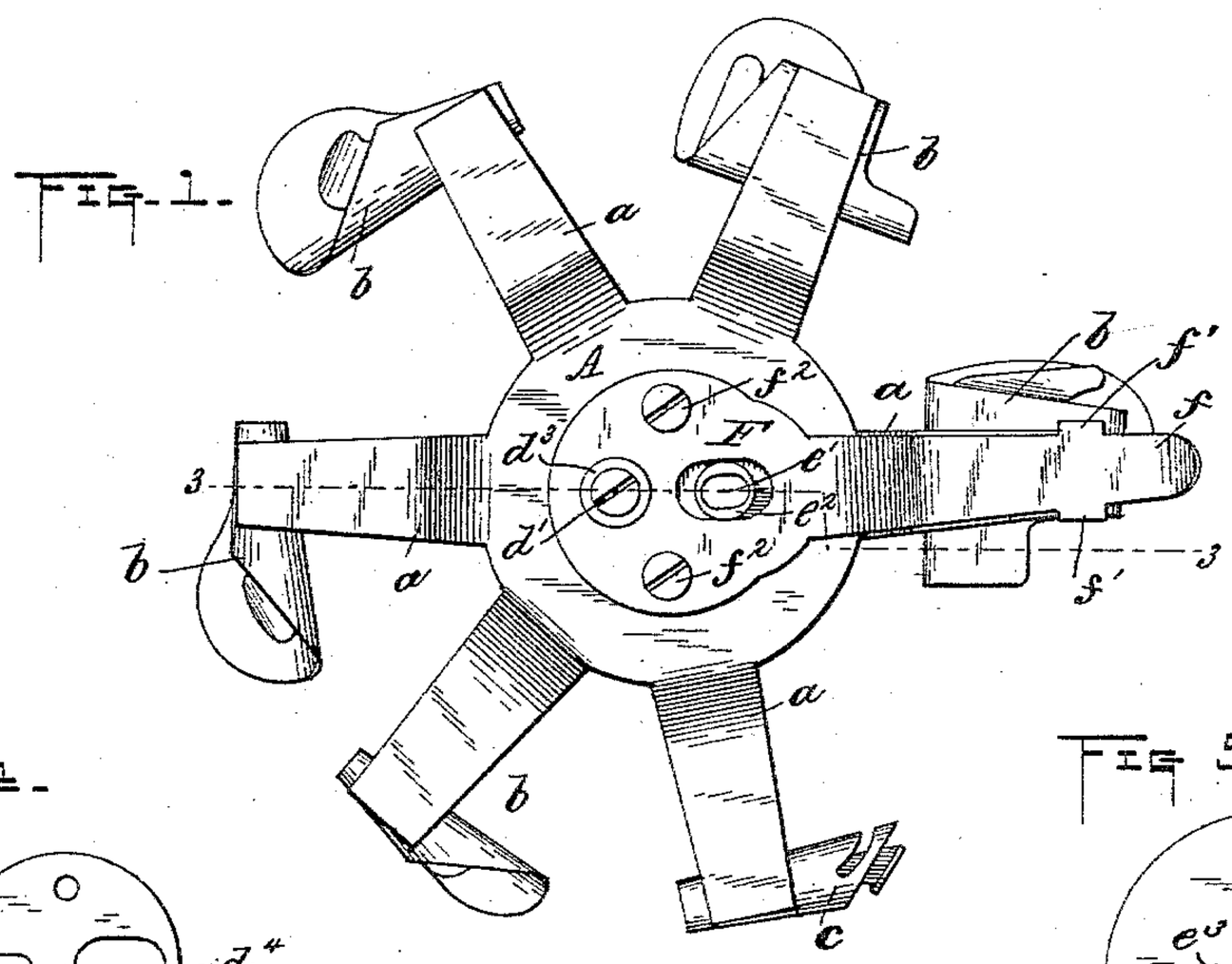


Fig. 4.

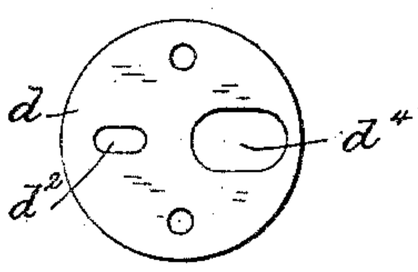


Fig. 5.

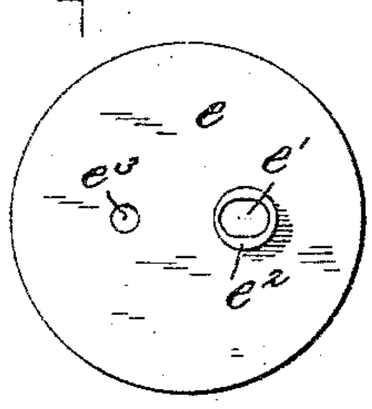


Fig. 2.

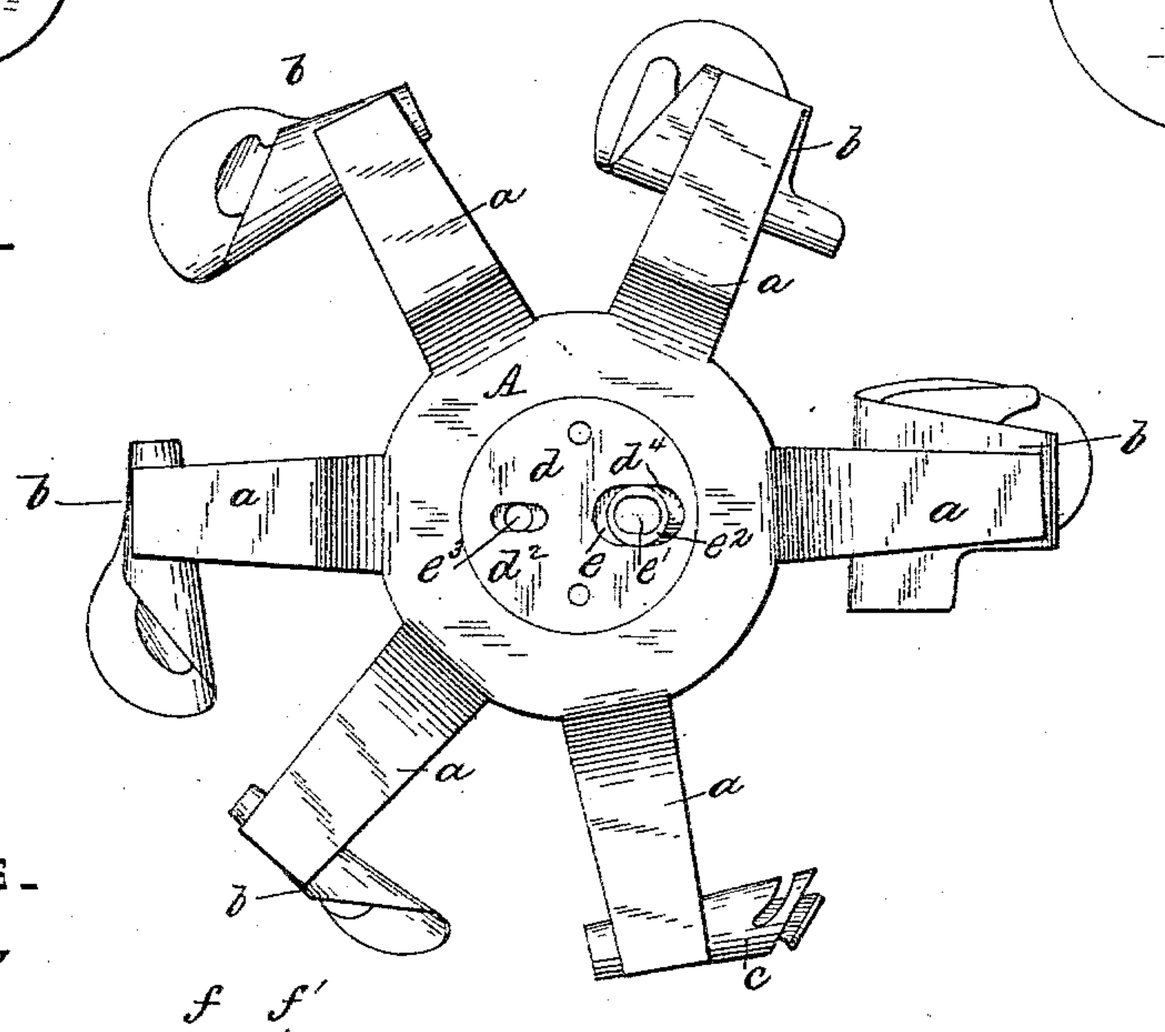


Fig. 6.

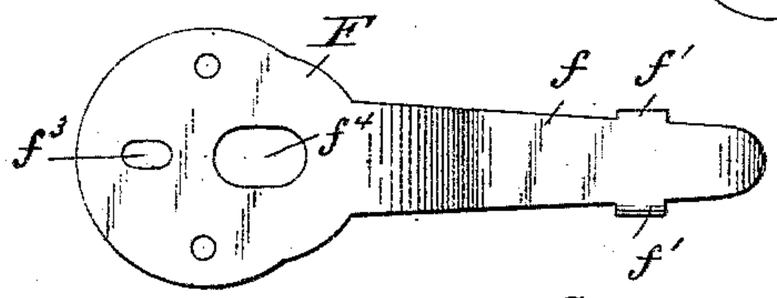
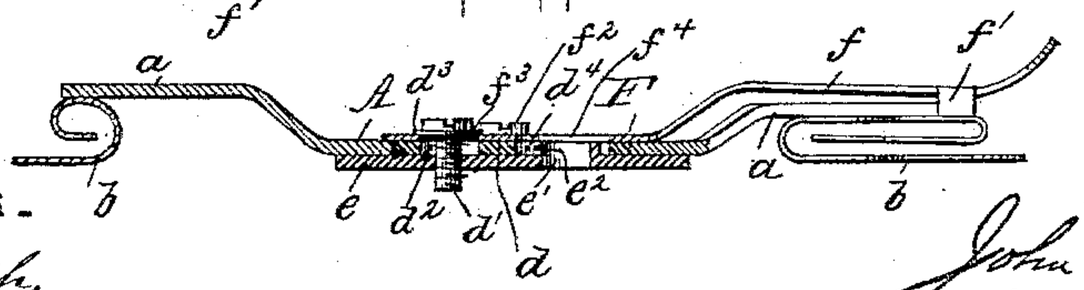


Fig. 3.



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ATTACHMENT-HOLDER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 381,546, dated April 24, 1888.

Application filed December 27, 1887. Serial No. 259,091. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. GRIEST, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Attachment-Holders for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the usual practice to fit out sewing-machines with sets of hemmers, binders, and other attachments which are provided with arms or shanks by which they may be attached to the work-plates of the machines. These arms or shanks are provided with slots for the passage of the set-screws which secure the attachments in place, the said slots permitting the attachments to be adjusted toward and from the needle, as may be required, according to the character of the work being done.

In the use of these attachments it is frequently necessary to change from one to another, as where a hemmer of a certain width is in use and it is desired to employ a wider or narrower one. In such a case the hemmer in use is removed and a hemmer of a different width substituted; but in making such change the holding set-screw has to be removed and again inserted, and then the hemmer last applied must be carefully adjusted relative to the needle of the machine, so that the line of stitches will be run the proper distance from the edge of the hem.

The object of my invention is to remedy this inconvenience by providing an attachment-holder adapted to carry several hemmers or other similar attachments, any one of which may be quickly brought into operative position without removing the attachment-holder from the work-plate or disturbing the adjustment thereof. This object I accomplish by providing a rotary plate having a series of radial arms, to the outer end of which the hemmers or other attachments are secured, with a central stationary hub or pivot-plate in which it may be turned. The stationary hub or pivot-plate is preferably adjustably secured to a base-plate, which is in turn attached to the work-plate of the machine. A spring-arm serves to connect the rotary plate with its stationary hub and to retain the attachments carried by the arms of the rotary plate in place when adjusted to working position. To change from one attachment to another it is only necessary to raise the spring-arm and partially rotate the rotary plate to carry one attachment out of working position and to bring another one into such position, in which it will be retained by the spring-arm as soon as the latter is released from its raised position.

In the drawings, Figure 1 is a plan view of my improved attachment-holder provided with a set of ordinary scroll-hemmers of different sizes and with a binder or binding-guide. Fig. 2 is a plan view of the same with the holding-plate and its spring arm removed. Fig. 3 is a sectional elevation on line 3 3, Fig. 1. Fig. 4 is a detail plan view of the central stationary hub or pivot-plate. Fig. 5 is a detail plan view of the base-plate to which the hub or pivot-plate is attached, and Fig. 6 is a detail plan view of the holding-plate and its spring-arm.

A denotes the rotary plate or body of the attachment-holder, and *a* the radial arms to which the attachments are secured. In the form of my invention herein shown five of these arms are represented as being provided with ordinary scroll-hemmers, *b*, of different sizes or widths, and the other with a binding-guide or binder, *c*.

The plate or body A is provided with a central circular opening, in which fits a stationary circular hub or pivot-plate, *d*, which is attached to a base-plate, *e*, by a screw, d', passing through a slot, d^2, in the plate *d*. A washer, d^3, may, if desired, be placed beneath the head of the screw d'. The hole e' in the base-plate *e* is for the reception of a set-screw, which will secure the attachment-holder to the work-plate of a sewing-machine, and is preferably surrounded by a raised boss, e^2, about the height of the thickness of the hub or plate *d*, the latter having a slot, d^4, for the reception of the said boss, and the latter serving as a guide for the plate *d*, as the latter and the plate A are adjusted horizontally on the base-plate. The said plate *e* may also have a hole, e^3,

through which the screw *d'* may pass into the work-plate of the machine if it is desired to secure the attachment-holder more firmly in place than could be done by a single screw.

F is the holding-plate provided with a spring-arm, *f*, having near its outer end depending lugs *f'*, of proper distance apart to embrace any one of the arms *a* of the plate A, the said holding-plate (which is merely a shank for the spring-arm *f*) being attached to the hub *d* by screws f^2, and having slots f^3 f^4 corresponding to the slots d^2 d^4 of the said hub.

When the parts are assembled, as shown in Fig. 1, and the base-plate *e* is secured to the work-plate of a sewing-machine by a set-screw in the hole *e'*, the device is ready for operation, the lugs *f'* on spring-arm *f* embracing one of the arms *a* and holding the plate A in place. To change from one hemmer or other attachment to another, it is only necessary to raise the spring-arm *f* and partly rotate the plate A to bring the desired attachment into working position, all of the attachments being so located on the radial arms *a* that when one is in proper adjustment relative to the needle of the machine all will be. When the holder has been once adjusted to the machine, the adjustment will be correct when replaced upon the machine after removal, the depending lugs serving the double purpose of preventing the holder from being accidentally and bodily rotated upon the bed of the machine, and of again bringing the attachment into the same position relative to the needle when the holder has been applied to the machine after removal.

When the new attachment is in working position, an arm, *a*, will be beneath the spring-arm *f*, so that as soon as the latter is released it will grasp the arm *a*, and thus again hold the attachment-plate in place.

To change the lateral adjustment of the attachment-plate A, and of all the attachments carried by the arms thereof, the set-screw is loosened, and the hubs *d* will then be free to be moved laterally to the extent permitted by the slots d^2 and d^4, the said hub in its lateral adjustments carrying the plate A and all of the attachments on the arms of the latter with it.

I am aware that it is not new to provide a single shank or plate with two or more hemmers or other attachments, and I do not therefore claim a plate or holder having several attachments, broadly; but

What I do claim, and desire to secure by Letters Patent, is—

1. The combination, with an attachment plate or holder provided with a series of radial arms, each of which carries a sewing-machine attachment, as a hemmer or braider, of a central circular stationary hub or pivot-plate on which the said attachment plate or holder may be turned, and means for securing the attachment-plate and the said hub or pivot-plate together.

2. The combination, with an attachment plate or holder provided with a series of radial attachment carrying-arms, and with a central circular opening or recess, of a hub or pivot-plate fitting said opening or recess, a base-plate, to which the said hub or pivot-plate is attached, and a spring-arm connected with the said hub or pivot-plate and serving to hold the attachment plate or holder in any position to which it may be adjusted.

3. The combination, with the attachment plate or holder A, having a series of radial attachment carrying-arms *a*, of the base-plate *e*, the central hub or pivot-plate, *d*, laterally adjustable on the said base-plate, and a spring-arm connected with the said hub or pivot-plate and having depending lugs to embrace any of the arms of the attachment plate or holder.

4. The combination, with the attachment plate or holder A, having a series of attachment carrying-arms, of the base-plate *e*, having the hole *e'*, and the boss e^2, surrounding the latter, the hub or pivot-plate *d*, having the slots d^2 and d^4, the holding-plate F, secured to the said hub or pivot-plate and provided with a spring-arm to secure the attachment plate or holder in place.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN M. GRIEST.

Witnesses:
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EWELL A. DICK.