(No Model.)

L. MUTHER.

FOLDING GUIDE FOR SEWING MACHINES.

No. 559,785. Patented May 5, 1896.

FIG. 1.

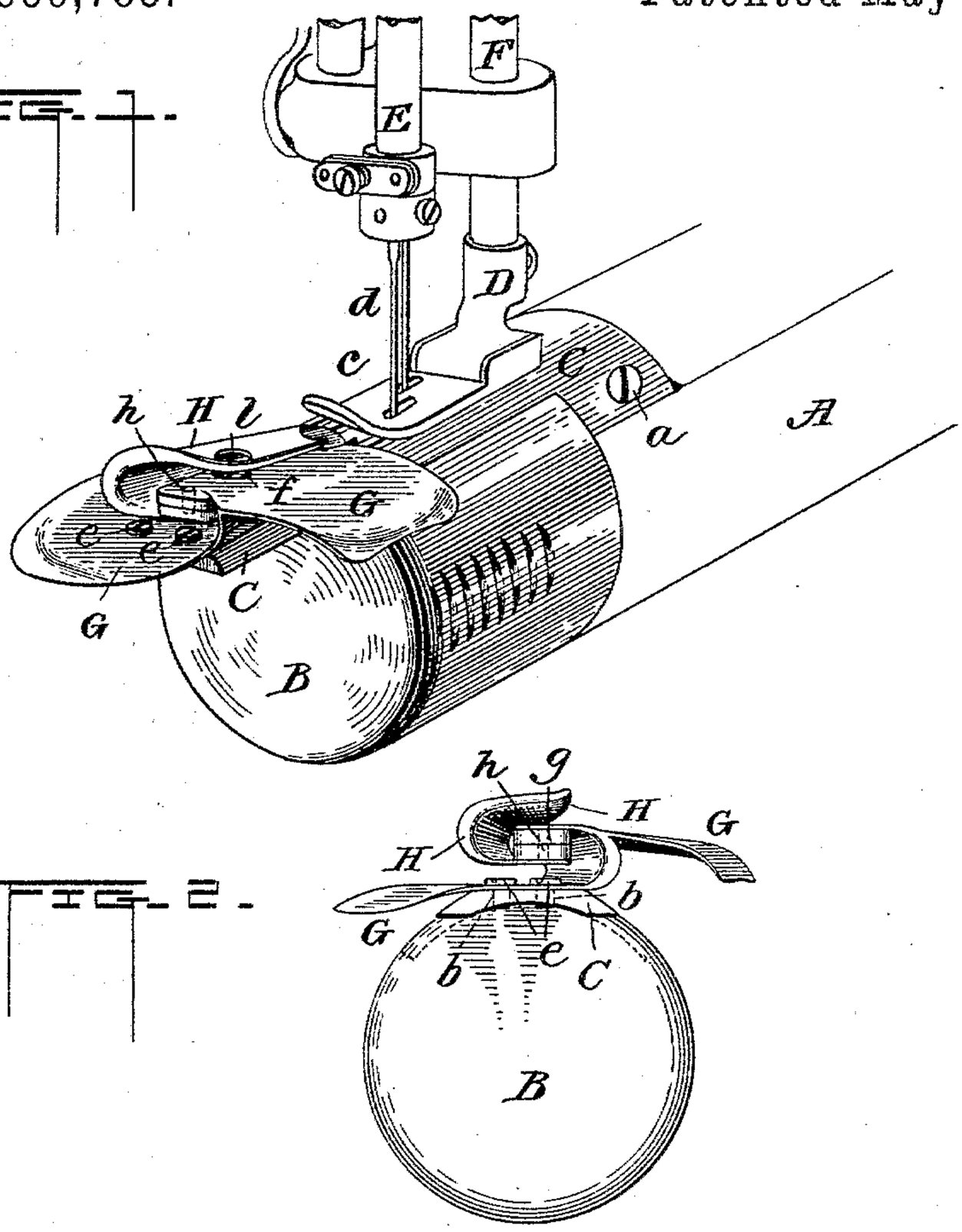


FIG. 2.

FIG. 3.

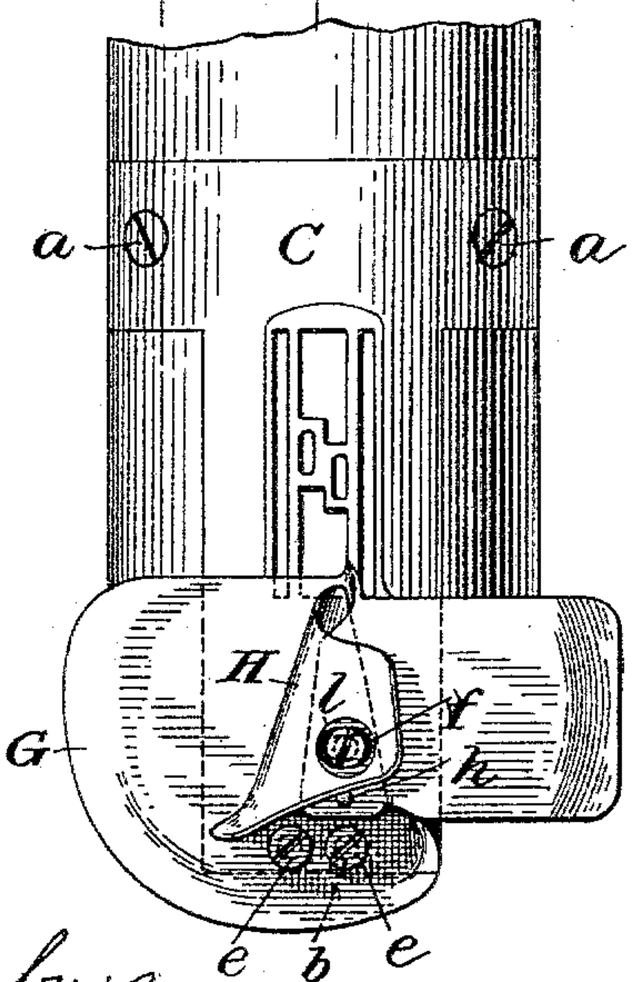


FIG. 4.

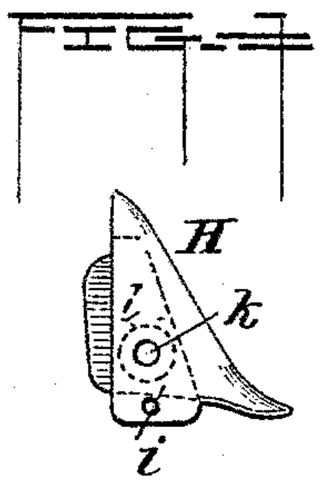
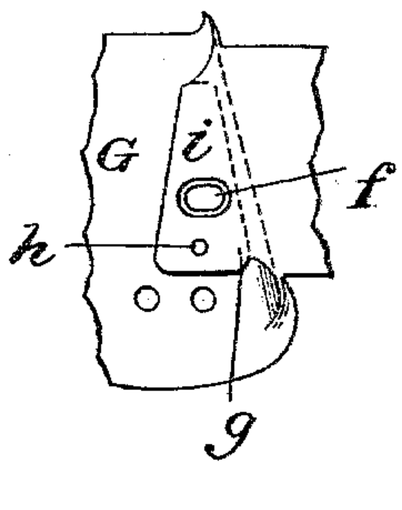


FIG. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

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FOLDING-GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 559,785, dated May 5, 1896.

Application filed November 13, 1894. Serial No. 528,681. (No model.)

To all whom it may concern:

Be it known that I, LORENZ MUTHER, a citizen of the United States, residing at Oak Park, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Folders, of which the following is a description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in sewing-machines, and particularly to a folder attachment for the same.

The special object of this invention is to provide a folder to be used upon a sewing-machine having a cylindrical bed-plate or horn and in which machine the feed is longitudinal of the arm, and the particular work for which I have designed the folder is in connection with the manufacture of shirts for folding the edges adjacent to the seam and then feeding the same to a two-line sewing mechanism which closes up the seam. I do not intend to be limited to the application to a cylindrical machine, nor, indeed, to the application of the invention to the particular purpose just referred to; but intend to claim the same as broadly as is consistent with the prior state of the art.

Heretofore many folders have been devised for attachments to different forms of machine; but I have found the present construction to be specially adapted to the work for which it was designed, and that it obviates many difficulties which have heretofore arisen in the use of such folders.

The invention consists in the matters hereinafter described, and referred to in the appended claims.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing so much of a sewing-machine as is necessary to a correct understanding of my invention. Fig. 2. is an end view of the cylindrical bed-plate, showing the folder attached. Fig. 3 is a top plan view of my invention. Fig. 4 is a bottom plan view of the detachable and adjustable portion of the folder; and Fig. 5 is a top plan view, partly broken away, of the stationary portion of the folder.

In the drawings, A represents the bed-plate of a sewing-machine, this bed-plate being herein shown as cylindrical in shape. The end of this cylindrical plate is closed by the removable cap B.

C represents the throat-plate secured to the bed-plate by the screws *a*, and at its forward end it extends quite a distance beyond the end of the bed-plate, being provided with screw-threaded openings *b* for the attachment of the folder. This throat-plate has the necessary and usual slots for the passage of the needles and the teeth of the feed-dog.

D represents the presser-foot, having openings *c* for the passage of the needles *d*, which are attached by means of the ordinary needle-clamp to the needle-bar E.

F is the presser-bar.

I have shown the needles *d* arranged at an angle to one another respecting the line of feed, the openings in the presser-foot and throat-plate being correspondingly arranged, whereby are formed two lines of stitching, which by this diagonal arrangement of the needles can be made quite close together.

The hemmer or folder is formed of two parts G and H. The part G is rigidly attached to the throat-plate C by means of the screws *e* passing into the holes *b* of said throat-plate, and the end of the throat-plate is flattened to allow of the better securing of the part G thereto. Said part G is formed of one or more pieces of metal. It has a transverse slot *f*, the sides of which are preferably countersunk, as shown, so that, when a screw is inserted through said slot, it will come about flush with the surface of the folder. At the forward end of the upwardly and inwardly bent portion *g* of this part G is inserted a pin *h*.

The portion H of the folder has the lower flat part *i* with an opening for the reception of the pin *h*, so that said part H may be pivoted on the part G. The two parts of the folder, where they rest one against the other, are preferably flattened and thickened, so as to leave above and below them space just sufficient for the passage of the proper thickness of fabric.

The portion H of the folder has a screw-threaded opening *k*, adapted to register with the slot *f*, so that a screw passed down through the opening *f* will pass into the hole *k*, and

thereby the part H will be held in the desired position, the pin *h* allowing it to pivot on the part G, and the transverse slot *f* with the set-screw allowing of its adjustment as desired.

I preferably provide an opening *l* in the upper portion of the part H to allow for the insertion of a screw-driver to tighten or loosen the screw beneath the same. This folding attachment preferably extends toward the rear of the machine, so as to come beneath the toe of the presser-foot, in order that as the two edges of the fabric which have had the hem turned on them pass out of the folder they may immediately pass under the influence of the presser-foot and be guided directly to the needles.

It will be understood that the end of this folder may be formed on an incline to correspond with the angle at which the needles are arranged. It will be understood that instead of having a mere pivot-pin, as *h*, another set-screw may be provided, upon which the portion H may be pivoted.

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

1. The combination with a cylindrical bed-plate, of a two-part scroll-hemmer having opposite lateral extensions located above and projecting beyond the periphery of the bed-plate, substantially as described.

2. A sewing-machine folder having a lower portion as G rigidly attached to the machine-frame and provided with an upwardly and inwardly bent portion *g* and having also a second laterally-extending portion in a plane above the plane of the laterally-extending part G, and a part H having a portion above the plane of the part *g* and having a downwardly and an inwardly turned portion *i* arranged below the part *g* with means for adjusting the part *g* on the part *i;* substantially as described.

3. A sewing-machine folder having a lower portion as G rigidly attached to the machine-frame, and having an upwardly and inwardly bent portion as *g*, and a downwardly and inwardly turned upper portion H, having the inwardly-turned portion *i* arranged below the part *g*, said parts *g* and *i* being flattened on the lower and upper faces respectively and with their faces in contact, one of said parts having a transverse slot and a set-screw passing through said slot into the other part; substantially as described.

4. A sewing-machine folder having a lower portion as G rigidly attached to the machine-frame, and having an upwardly and inwardly bent portion as *g*, and a downwardly and inwardly turned upper portion H, having the inwardly-turned portion *i* arranged below the part *g*, a pivot-pin passing from the part *g* into the part *i*, and means for securing the parts in position; substantially as described.

5. A sewing-machine folder having a lower portion rigidly attached to the machine-frame and having an upwardly and inwardly bent portion as *g* having a transverse slot and an adjustable upper portion as H having a part as *i* arranged below the part *g* and a set-screw passing through said transverse slot into the part *i* and a pivot-pin as *h* secured to the forward end of the part *g* and passing into an opening in the part *i;* substantially as described.

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

LORENZ MUTHER.

Witnesses:
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M. MCNEIL.