

1,433,447.

Patented Oct. 24, 1922.

Fig. 1.

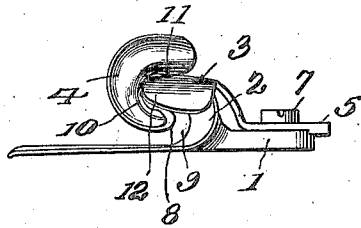


Fig. 2.

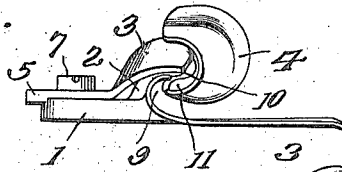


Fig. 3.

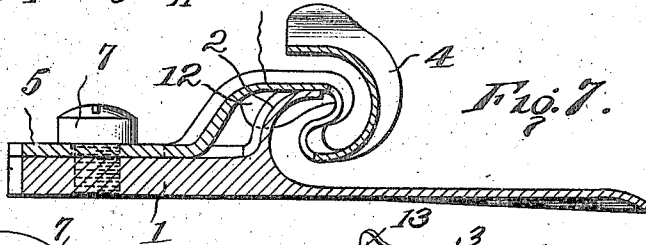


Fig. 7.

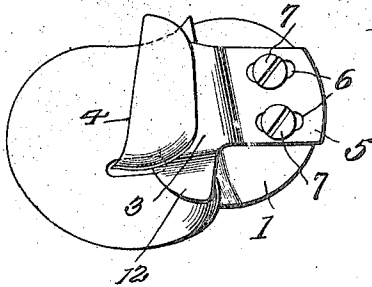
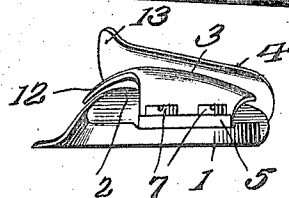


Fig. 4.

Fig. 6.

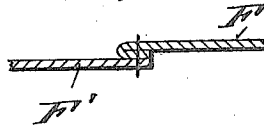
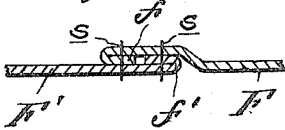


Fig. 5.



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By

UNITED STATES PATENT OFFICE.

JOHN E. CHALMAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO UNION SPECIAL MACHINE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

FOLDER FOR SEWING MACHINES.

Application filed October 4, 1918. Serial No. 256,813.

To all whom it may concern:

Be it known that I, JOHN E. CHALMAN, a citizen of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Folders for Sewing Machines, of which the following is a description, reference being had to the accompanying drawing and to the figures of reference marked thereon.

The invention relates to new and useful improvements in folders for sewing machines, and more particularly to a folder for forming a double lap seam fold.

An object of the invention is to provide a folder of the above character with means for guiding the upper ply of fabric into the folder and insuring that the raw edge of the fabric will be folded under in a proper manner and that cross seams will also be freely directed into the upper folder.

In the drawings which show by way of illustration one embodiment of the invention—

Figure 1 is a front view of the folder embodying my improvements;

Figure 2 is a rear view of the same;

Figure 3 is a plan view of the folder;

Figure 4 is a side view of the folder;

Figure 5 shows a double lap seam formed on my improved folder;

Figure 6 shows a slightly modified form of seam wherein the upper ply only is folded.

Figure 7 is a transverse sectional view midway through the folder.

Prior to my invention folders have been provided for turning under the raw edge of an upper ply of fabric and turning over the raw edge of an under ply of fabric and relating these folded edges so that the two plies of fabric may be stitched together and all raw edges of the fabric sections sealed. In folders of this character considerable trouble has been experienced in properly guiding the upper ply so as to insure that this raw edge will be properly folded under and also so as to insure that cross seams in the upper ply of fabric will freely pass into the folder.

My improvement consists in providing means which direct the upper ply of fabric in such a way as to insure the raw edge being folded under in a proper manner. The

invention will be more clearly understood by reference to the drawings, wherein I have shown the folder having a base plate 1, which is adapted to be secured to the cloth plate of the sewing machine at a point in front of the stitching mechanism. This base plate is formed with an upwardly extending laterally curved guiding wall 2. Mounted on the base plate is a fabric supporting shelf 3, carrying a curved guiding plate 4. This supporting shelf 3 is carried by a shank 5, which is formed with slots 6—6 through which screws 7—7 pass for securing the shelf and the guiding plate carried thereby to the base plate 1. The curved guiding plate 4 is formed with a section 8 which extends underneath the shelf and the outer wall of which is curved to conform with the curvature of the wall 2. This forms a guiding space 9 for the lower ply of fabric which folds over the raw edge of said under ply of fabric. The curved guiding plate 4 is also formed with a guiding section 10, curved to conform with the outer wall of the plate 4 and this forms a guiding recess 11 for receiving the upper ply of fabric and for folding underneath the raw edge thereof. It will be noted that the curved guiding plate 4 overhangs the shelf 3. The shelf 3 has a forwardly projecting downwardly inclined lip 12 extending to the inner edge of said shelf. The curved guiding plate at its receiving end has an outwardly flared section, indicated at 13 in the drawings. The outwardly flared section 13 and the downwardly curved lip 12 form a wide open mouth to receive the upper ply of fabric. In the drawings, I have shown the upper ply of fabric at F and the under ply of fabric at F'. The upper ply of fabric is folded at f, while the lower ply of fabric is folded at f', and these folded fabrics are stitched together by lines of stitching, indicated at ss.

It will be noted that the upper ply of fabric passes into the wide open mouth, referred to, and along the guiding recess 11 where the raw edge of this upper ply is folded underneath. At the same time the lower ply of fabric passes along the guiding recess 9 and the raw edge thereof is folded over. The downwardly inclined lip 12 extends to the inner edge of the shelf 3 or well into the fold of the upper ply of fabric and

aids in directing the upper ply of fabric and any cross seams that might be formed therein and insures that the raw edge of this upper ply of fabric shall be properly
5 folded underneath. Without this downwardly inclined lip a cross seam is liable to strike the front edge of the shelf supporting the upper ply and thus stop the free movement of the fabric.

10 While I have described my folder as particularly adapted for forming a double lap seam, as shown in Figure 5, it will be understood that the lower ply of fabric, indicated at F' may be arranged so that its edge is
15 not folded and the raw edge of the upper ply only is folded. I do not wish, therefore, to be limited to a folder operating in any particular way on a lower ply of fabric, but the invention is directed broadly to the
20 manner of handling and directing and turning under the raw edge of an upper ply of fabric.

It is obvious that minor changes in the details of construction and the shaping of

parts may be made without departing from 25 the spirit of the invention as set forth in the appended claim.

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

30 A folder for sewing machines including a base plate, a fabric supporting shelf mounted thereon, a curved guiding plate carried by the shelf and overhanging said shelf for folding under the edge of an upper
35 ply of fabric supported on said shelf, said shelf having a forwardly projecting and downwardly inclined lip disposed in front of said overhanging portion extending to the inner edge of said shelf for directing
40 the fabric into the folding portion of the folder formed by the curved guiding plate.

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

JOHN E. CHALMAN.

Witnesses:

C. McNEIL,

A. B. CLOTHIER.