(No Model.)

J. F. FOSCHINBAUR.

FOLDING GUIDE FOR SEWING MACHINES.

No. 566,676. Patented Aug. 25, 1896.

FIG. 1.

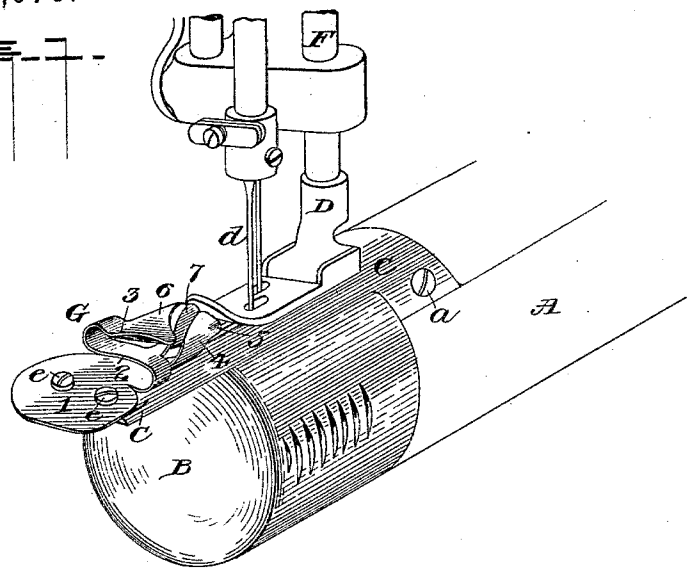


FIG. 2.

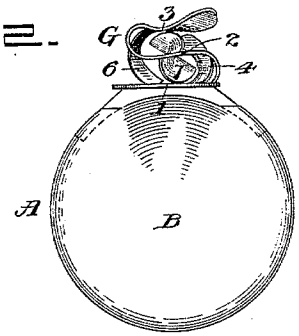


FIG. 3.

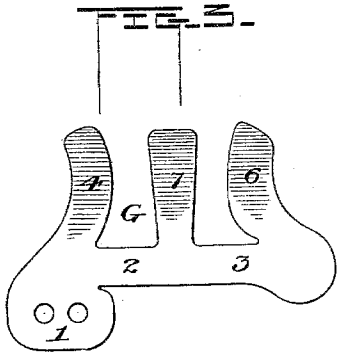


FIG. 4.

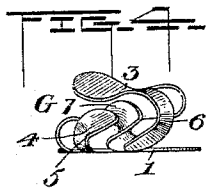
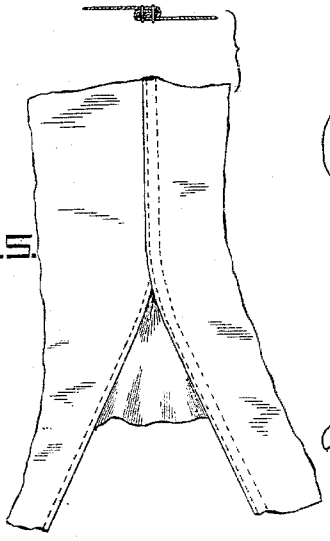


FIG. 5.



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UNITED STATES PATENT OFFICE.

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FOLDING GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 566,676, dated August 25, 1896.

Application filed June 3, 1895. Serial No. 551,441. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH F. FOSCHINBAUR, a citizen of the United States, residing at Ridgeland, 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 and figures of reference marked thereon.

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

The object of the invention is to provide a double-folding device for seaming together two pieces of fabric, and I preferably apply the folder to a sewing-machine having a cylindrical bed-plate or horn, in which machine the feed is longitudinal of the arm.

The particular work for which I have designed the folder is in connection with the manufacture of shirts, trousers, and overalls. It is specially constructed to allow for the passage through it of an increased thickness of fabric, such as takes place when a cross-seam is to be passed through the machine; but it is very desirable, and will have its greatest utility, in the manufacture of shirts of a certain kind in which a gusset is inserted between the flaps.

It has heretofore been proposed to provide folders for use when two pieces of fabric are to be seamed together, and, indeed, to provide a spring-folder with yielding portions to allow of the passage therethrough of increased thicknesses of material; but the present invention has been found especially adapted to the work above mentioned, and obviates many difficulties which have heretofore arisen in the use of folders.

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

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of so much of a sewing-machine as is necessary for a correct understanding of my invention, showing my improved folder attached thereto. Fig. 2 is an end view of the cylindrical bed-plate, showing the folder attached. Fig. 3 is a plan view of the blank from which the folder is struck up, and Fig. 4 is a rear view of the folder. Fig. 5 shows a plan view of the seam made by 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 being 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 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 a presser-foot, having openings for the passage of the needles *d*, which are secured to the needle-bar in the ordinary way, and are herein shown as arranged at an angle to one another respecting the line of feed, though this, of course, is not essential.

F is a presser-bar to which the presser-foot D is secured.

The folder is represented at G and is attached to the throat-plate by means of screws *e* passing into the holes of said throat-plate, the end of the throat-plate being flattened to allow of the better securing of the folder G. This folder is preferably made of a single piece of sheet or spring metal, and when bent to proper form consists of the flat portion 1, secured to the throat-plate, the intermediate horizontal portion 2, and the upper portion 3.

The lower or flat portion 1 has a rearwardly-projecting spring-tongue 4 formed on a twist, as shown, its inner edge being curved to form one side of the scroll proper and having a downwardly-projecting lip 5, which acts as a guide for one side of the fabric, that is, of the lower piece of fabric. The upper portion 3 has also a rearwardly-projecting spring-tongue 6, which is curved in the opposite direction to the tongue 4, and its inner edge forms the opposite side of the scroll and acts as a guide for the inner edge of the upper piece of fabric.

Projecting rearwardly from the middle portion 2 is a spring-tongue 7, curved or twisted, as shown, its sides or faces being made to conform in shape with the adjacent inner faces of the tongues 4 and 6, whereby between each

face of the middle tongue 7 and the adjacent tongues is formed a passage for the fold in one piece of fabric, the tongue 7 serving to separate the layers.

It will be seen that by the arrangement of the spring-tongues any increase in thickness of the fabric passing through the folder is readily accommodated, so that there will be no binding of the goods against the folder to prevent the proper feed of the goods, the tongues being sufficiently flexible at the rear end to allow of any reasonable thickness of fabric being passed through.

In the drawings I have shown a portion of a shirt being sewed on the machine with a gusset being inserted, the spring-tongues allowing the passing of the thickened portion of fabric when one piece of the goods is turned to one side and the gusset begins to be folded to unite with the other part.

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

1. A folder comprising a base, a central portion and an upper portion, the upper and lower portions being secured to the central portion on opposite edges thereof, each of said portions having a rearwardly-extending part constructed to form between them two channels for folding and guiding the fabric, said parts being independent and unconnected and each of the outer ones forming one entire wall for one of the channels and the central portion forming respectively the side wall of both channels; substantially as described.

2. A folder comprising a suitable body portion formed with openings for the insertion of pieces of fabric, and having a plurality of rearwardly-extending tongues, twisted or curved to guide and fold the fabric and an intermediate tongue having each of its faces conforming to the adjacent face of the proximate tongue; substantially as described.

3. A folder comprising a suitable body portion, formed with openings for the insertion of pieces of fabric, and having a plurality of rearwardly-extending tongues twisted or curved to guide and fold the fabric, and an intermediate tongue having each of its faces conforming to the adjacent face of the proximate tongue, one of said tongues having a downwardly-projecting lip as 5 which acts as a guide for one edge of the fabric; substantially as described.

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

JOSEPH F. FOSCHINBAUR.

Witnesses:
O. McNEIL,
E. L. BLAIKIE.