

J. HOLTZMANN.
SEWING MACHINE FOLDER.
APPLICATION FILED AUG. 10, 1912.

1,049,583.

Patented Jan. 7, 1913.

FIG. 1.

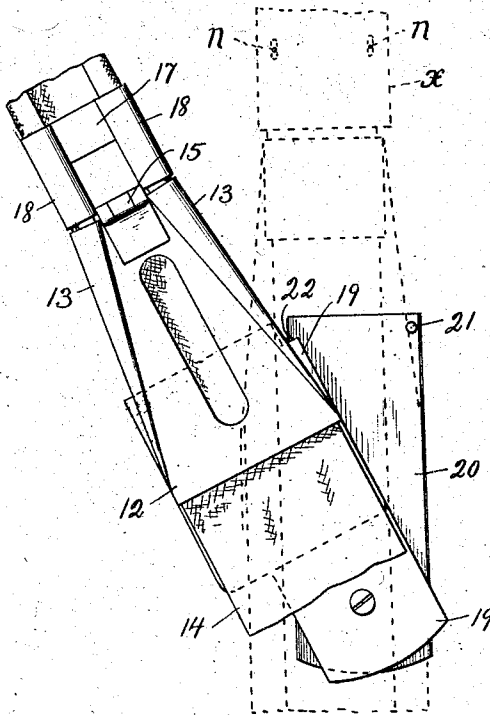


FIG. 3.

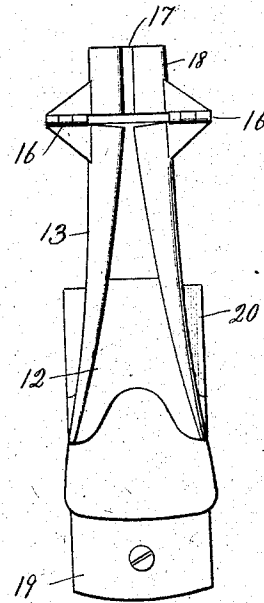


FIG. 2.

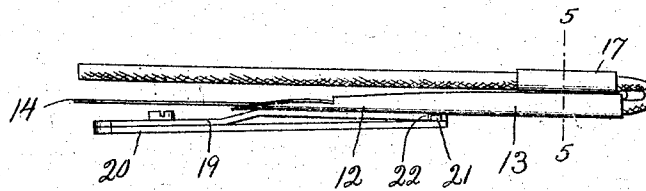


FIG. 5.

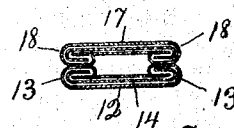
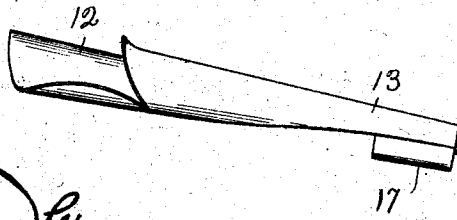


FIG. 4.



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UNITED STATES PATENT OFFICE.

JOHN HOLTZMANN, OF BALTIMORE, MARYLAND.

SEWING-MACHINE FOLDER.

1,049,583.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN HOLTZMANN, a citizen of the United States, residing at Baltimore, State of Maryland, have invented or discovered certain new and useful Improvements in Sewing-Machine Folders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to folders for turning in the edges of strips of fabric to be presented to the stitch-forming mechanisms of sewing machines, and is more particularly intended for use in connection with
15 two-needle sewing machines adapted to simultaneously form two parallel rows of stitching, although the invention may be used in connection with single needle machines, but not to the same advantage.
20 In doing some kinds of work, as in forming straps and belts, or making loops such as are commonly attached to the tops of trousers for holding belts, it is a common practice to turn in the two opposite edges of
25 two strips of fabric which are superposed upon each other, as they are presented to the stitch-forming mechanism of a two-needle sewing machine, so that the turned-in edges will be stitched down within the bodies of
30 the strips, thus forming a two-ply strap, belt or loop with turned-in edges. By the use of the present invention a two-ply strap, belt, or loop, such as just referred to, may be formed from a single strip of
35 material having the edges turned in, and which is doubled upon itself as it is presented to the stitch-forming mechanism of a two-needle sewing machine, thereby forming a two-ply strap, belt or loop having a
40 finished end; and if the stitched strap be intended for a suspender strap a buckle may be stitched into such finished end in the operation of forming the strap, as will hereinafter appear.
45 In carrying the invention into effect a folder which is adapted to turn in the opposite edges of a strip of fabric is provided at its forward end with a hinged section, so that when a strip of fabric has been
50 drawn through the folder to the extent of about one-half its length it may be doubled upon itself in such a manner that the turned-in edges of both parts or plies of the doubled strip will be inside of such
55 doubled strip, and the strip may then be presented to the stitch-forming mechanism of a two-needle sewing machine in such a

manner that both edges of the strip will be stitched down to form a two-ply strap, belt, band, plait or loop. The hinged section of the folder may be attached to the body of the folder either by a single central hinge, or by two outside hinges, the latter construction being preferable in narrow folders; and the folder with its hinged section may be mounted on the sewing machine in such a manner that such hinged section may be turned down onto the top of the body portion of the folder, or may be turned in under such body portion, according to the
70 class of work for which the folder may be intended.

In the accompanying drawings Figure 1 is a plan view showing in full lines one form of the improved folder swung aside
75 in position for inserting the work, and with a strip of fabric therein, the operative position of the folder being denoted by dotted lines. Fig. 2 is a side view of the folder in its operative position and with a doubled
80 strip of fabric therein. Fig. 3 is a plan view of another form of the improved folder with the hinged section in position for inserting the fabric. Fig. 4 shows one of the improved folders in the position which it
85 will occupy when the hinged section is to be turned in under the body of the folder, instead of being turned down onto the body of the folder as in Fig. 2. Fig. 5 is a section on line 5-5 Fig. 2, illustrating the
90 manner in which the fabric is folded, when the strip is doubled upon itself.

Referring to the drawings, 12 denotes the body of a folder having scroll portions 13, of well known construction, at its opposite
95 sides, for turning in the two opposite edges of a strip of fabric 14. Attached to the forward end of the body of the folder, either by a single centrally disposed hinge 15, or by one or two side hinges 16, is a folder section 100
107 having at its opposite edges scroll portions 18 which, when the hinged section is in line with the body of the folder, practically form continuations of the forward ends of the scroll sections 13, so that a
105 strip of fabric may be drawn through the folder when the hinged section is in line with the body of the folder, for the purpose of turning in the edges of that portion of a strip of fabric which may be drawn
110 through the folder, as indicated in Fig. 1.

The folder 12 is preferably secured, by solder or otherwise, to a plate 19, which is in turn pivotally attached to a plate 20

which may be one of the slides covering the shuttle race of the sewing machine, and which will, in such case, be held in place on the machine by the guides for such slide, in a well-known manner. This pivotal connection of the folder with its holding plate 20 enables the folder to be swung aside as shown in full lines in Fig. 1, for the insertion of the work, and to be swung back to its operative position after the work has been inserted and the hinged section has been turned over onto or under the body of the folder, as denoted in dotted lines in Fig. 1, and as also shown in Figs. 2 and 4. When the folder is thus swung into its operative position its forward end will be closely adjacent to the presser foot of the machine, so that the doubled strip with its folded-in edges, when pulled slightly through the folder, may be readily engaged by the feed of the machine and carried to the stitch-forming mechanisms. In Fig. 2 the position of the presser-foot x relative to the folder is denoted by dotted lines, and the positions of the needles by the dots n . To insure a proper positioning of the folder, when thus swung into its operative position, a stop, afforded by a pin 21 on the plate 20 and arranged to engage a recessed part 22 on the plate 19, is preferably provided. When a strip of a certain length has been drawn through the folder to an extent which will bring its middle portion opposite the hinge connecting the hinged section, the body of the folder is turned over either onto or under the body of the folder so as to form a double-ply strip both edges of which are turned in adjacent to each other within the folded strip; and the folder, which has been swung aside as denoted in full lines in Fig. 1, for the insertion of the work, is then swung back to the position denoted in dotted lines in Fig. 1 for the stitch-forming operation.

If it be desired to insert a buckle into the strip to be stitched, as in forming a suspender strap, the folder may be supported in any suitable manner above the work-plate, and with its hinge on the lower side of the body of the folder, as shown in Fig. 4. With this arrangement the loop or bail of a buckle may be disposed in a small recess at the forward end of the body or main section of the folder in such a manner that when a strip is drawn through the folder it will pass through the said loop or bail of the buckle between the main and hinged sections of the folder; and when the folded strip has been drawn through the folder to a desired extent the strip, with its folded-in edges, will be doubled upon itself by turning in the hinged section of the folder beneath the

body thereof, so that when the doubled strip has been stitched down the buckle will be held in place in the strap thus formed by such doubled strip, when the plies of the same have been properly stitched together.

If it be desired to attach a two-ply strip with its folded-in edges to a piece of fabric, as where such doubled stitched strip would form a plait on or a finish for such piece of fabric, the piece of fabric may be interposed between the main and hinged sections of the folder in such a manner that a centrally disposed hinge, as 15, will serve as an edge guide for the piece of fabric, which may then be carried forward between the two plies of the strip and will be stitched in between them in the stitch-forming operation.

The invention is not to be understood as being limited to the details herein shown and described, as these details may be varied, within the limits of mechanical skill, without departing from the essence of the invention.

Having thus described my invention I claim and desire to secure by Letters Patent:

1. A sewing machine folder having turning scrolls at its opposite edges and provided at its forward end with a hinged section having scroll portions practically forming continuations of the scroll portions of the said folder.

2. A sewing machine folder having turning scrolls at its opposite edges and provided at its forward end with a hinged section having scroll portions practically forming continuations of the scroll portions of the said folder, combined with a support or holder with which the said folder has a pivotal connection, so that it may be swung aside for the insertion of the work, and may then be swung back to its operative position.

3. A sewing machine folder having turning scrolls at its opposite edges and provided at its forward end with a hinged section having scroll portions practically forming continuations of the scroll portions of the said folder, combined with a support or holder with which the said folder has a pivotal connection, so that it may be swung aside for the insertion of the work, and may then be swung back to its operative position, and a stop for limiting the swinging movement of the said folder, and for properly positioning the same, when the latter is swung into its operative position.

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

JOHN HOLTZMANN.

Witnesses:

HARRY C. HAZARD,
J. HENRY RUPPERT.