

B. F. CHAMBERLIN, JR.
BUTTON FLY STAY.
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1,044,138.

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Fig. 1.

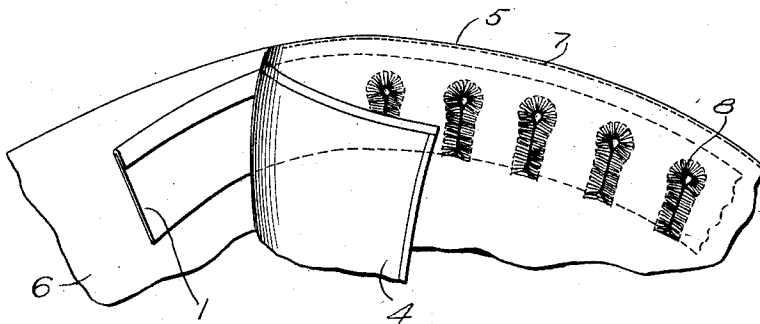
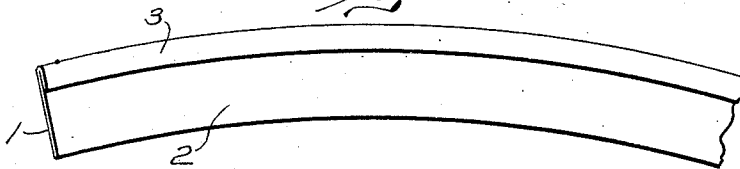


Fig. 2.



Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

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BUTTON-FLY STAY.

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To all whom it may concern:

Be it known that I, BENJAMIN FRANKLIN CHAMBERLIN, JR., a citizen of the United States, residing at 19 Nightingale street, in the city of Boston, county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Button-Fly Stays, of which the following is a specification.

The present invention relates to the manufacture of boots and shoes and more particularly to button-fly stays.

As well known to those skilled in the art the front edge of a button-fly is liable to curl up and the button-hole eyes formed in the fly are liable to tear outwardly to the front edge of the fly. Heretofore it has been customary in the manufacture of boots and shoes to reinforce the button-flies by interposing a narrow strip of tape between the two faces of the fly, the strip being secured to the marginal portion of the fly between its edge and the button holes by cement or stitches. This manner of reinforcing the fly is unsatisfactory as it has been found that the narrow strip of tape does not provide the necessary strength to the buttonholes to prevent their tearing out. It has been proposed heretofore to reinforce button-flies by interposing between the faces of the fly a stay sufficiently wide to cover the buttonholes throughout their length and provided with a strengthening rod arranged to reinforce the marginal portion of the fly between the edge of the fly and the buttonholes. This manner of reinforcing the fly is impracticable. Owing to the fact that a button-fly is curved longitudinally it has been found difficult to apply a wide strip of tape to the fly because of the necessity of plaiting the tape in order to cause it to follow the curve of the fly. Furthermore, the provision of a strengthening rod is expensive as it involves an additional stitching operation in order to secure the rod to the stay.

The object of the present invention is to provide shoe manufacturers with a button-fly stay by which the margin of button-flies and the walls of the buttonholes formed therein may be effectively reinforced without danger of forming objectionable plaits in the stay and which may be secured in position on the fly without the use of cement or stitches.

To the accomplishment of this object a

feature of the invention contemplates the provision of a button-fly stay consisting of a strip of adhesive tape having a longitudinal edge folded over upon and adherently secured to the adjacent marginal portion of the tape.

In its broader aspects the invention contemplates the attachment of the tape to the button-fly in any suitable or desirable manner, but in order to effectively reinforce the fly the tape is applied to the fly so that the folded edge and body portion of the tape respectively reinforce the button-fly in front of the buttonholes and the walls of the buttonholes. This manner of applying the tape forms an important feature of the invention.

The various features of the present invention will be best understood from an inspection of the accompanying drawings illustrating the preferred embodiment of the invention, in which—

Figure 1 is a fragmentary plan of a button-fly showing the stay secured thereto, and Fig. 2 is a fragmentary plan of the button-fly stay as furnished to the shoe manufacturers.

The button-fly stay consists of a strip of textile tape 1 having its longitudinal edges curved to conform to the longitudinal curve of a button-fly. The tape 1 is coated upon one face 2 with some suitable material which is normally non-adhesive under ordinary conditions of temperature but which may be rendered adhesive by the application of heat. The edge of the tape corresponding to the front edge of the button-fly is provided with a fold 3 which is secured to the adjacent marginal portion of the tape by the adhesive coating on the contacting surfaces. Preferably the coated tape is supplied to the trade in a strip of considerable length so that the individual button-fly stays may be cut therefrom in lengths to suit the requirements of the shoe manufacturers.

In use the coated face 2 of the strip 1 is placed against the lower face of the layer 4 of the button-fly the upper face of which is exposed in the finished shoe. The strip is applied to the layer 4 so that the fold 3 is located a short distance from the front edge of the layer 4 and parallel thereto, the curved formation of the strip permitting the application of the strip to the layer 4 in the manner described without plaits or folds. The strip 1 is then secured to the layer 4 by

the application of heat or heat and pressure in any suitable manner. The lower layer of the button-fly is shown at 6 and this layer is then secured to the layer 4 by a line of 5 stitches 7 in the usual manner. The button-fly is then provided with the usual buttonholes 8 by cutting holes through the layers 4 and 6 and the interposed strip 1 and the buttonholes are then worked in the usual 10 manner.

It will be apparent to those skilled in the art that the fold 3 reinforces the marginal portion of the button-fly in advance of the buttonholes and that the body portion of the 15 tape 1 thickens and strengthens the walls of the buttonholes. As the improved button-fly stay may be applied to the fly without the use of either cement or stitches it is obvious that an important economy in the manu- 20 facture of shoes is effected. It will also be apparent to those skilled in the art that it is immaterial whether the adhesive coating extends entirely across the face of the tape before it is folded or extends from the folded edge, beneath the fold, to the unfolded 25 edge as the sole purpose of the coating is to secure the fold to the body portion of the tape and the tape to the button-fly.

What is claimed as new is:—

30 1. A button-fly stay consisting of a strip of tape provided with an adhesive coating upon substantially the entire surface of one

face of the tape and having a curved longitudinal edge folded over upon and adher- 35 ently secured to the adjacent marginal portion of the tape, substantially as described.

2. A button-fly consisting of layers of material having registering buttonholes formed therein and a stay with an adhesive coating 40 interposed between the said layers and secured to one of said layers by the adhesive coating and having a longitudinal edge folded over upon and adherently secured to the adjacent margin of the body portion of 45 the stay, said folded edge and body portion being arranged respectively to reinforce the button-fly in front of the buttonholes and the walls of the buttonholes, substantially as described.

3. As an article of manufacture, a but- 50 ton-fly stay consisting of a strip of textile material provided upon substantially the entire surface of one face with an adhesive coating normally non-adhesive under ordi- 55 nary conditions of temperature and having a narrow fold extending along one longitudinal edge which is secured to the body portion of the strip by the adhesive coating, substantially as described.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."