March 22, 1932. J. M. NOEL 1,850,806

BUTTON SPACER

Filed April 21, 1930

Fig. 1.

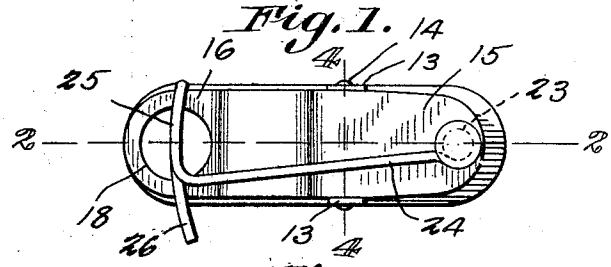


Fig. 2.

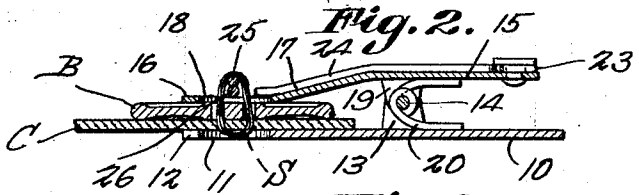


Fig. 3.

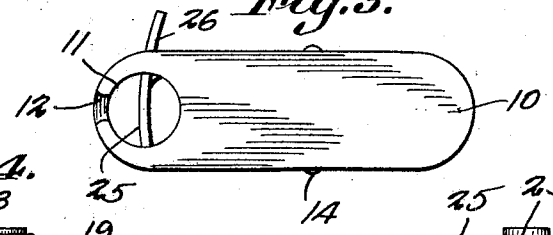


Fig. 4.

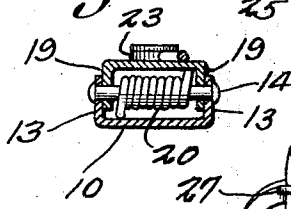


Fig. 5.

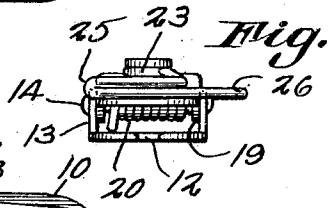


Fig. 6.

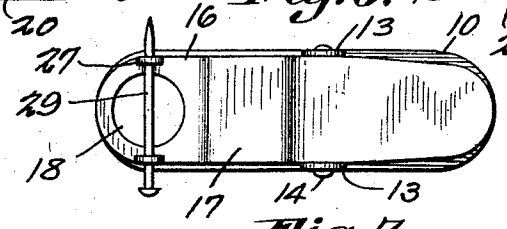
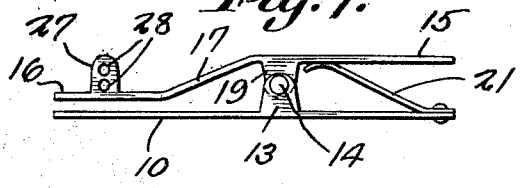


Fig. 7.



Joseph M. Noel Inventor

Patented Mar. 22, 1932 1,850,806

UNITED STATES PATENT OFFICE

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BUTTON SPACER

Application filed April 21, 1930. Serial No. 446,018.

This invention relates to tailoring and has special reference to a device for holding buttons in position for sewing in such manner that the button is spaced from the cloth to which it is attached, the device being termed a button spacer.

In many cases, especially where buttons are sewed on heavy cloth such as is used in overcoats and other heavy garments, it is desirable to attach the buttons in such manner that considerable space will be left between the button and the cloth to which it is sewed so that the cloth containing the button holes may fit under the button smoothly. Heretofore it has been generally necessary to employ much care and skill in making the stitches used of proper and even lengths so that a wrapping of the thread might be made around such stitches under the button. Consequently, only a person with experience in such work could turn out a neat and workmanlike job.

One important object of the present invention is to provide a novel device which may be used by practically any person to effect sewing of buttons in the manner described, an unskilled person being able to produce as good results as one with long experience.

A second important object of the invention is to provide a novel device for this purpose whereby a set of buttons may be sewed on a garment with all of the buttons equally spaced from the cloth.

A third important object of the invention is to provide an improved device of this character which will hold the button securely in position on the cloth while the sewing is being effected.

A fourth important object of the invention is to provide a novel button spacer wherein the length of the stitches fastening the button may be made suitable to the thickness of cloth used.

With the above and other objects in view, the invention consists in general of certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings and specifically claimed.

In the accompanying drawings like characters of reference indicate like parts in the several views, and:

Figure 1 is a top plan view of one form of the invention;

Figure 2 is a section on the line 2—2 of Figure 1;

Figure 3 is a bottom plan view of the spacer;

Figure 4 is a section on the line 4—4 of Figure 1;

Figure 5 is an end view from the left of Figure 1;

Figure 6 is a plan view of a modified form of the invention;

Figure 7 is a side elevation of the modified form.

In both forms of the invention as here illustrated, there is provided a clamp including a flat elongated base 10 having rounded ends and provided at one end, which is called the front end, with an opening 11 which is circular in form and of less diameter than the smallest button to be handled. A slot 12 extends from this opening through the adjacent end of the base. At opposite points on the sides of the base are pivot lugs 13 which extend upwardly from the base and support a pivot rod 14. The other member of the clamp consists of a plate having a rear portion 15 and a front portion 16 offset downwardly from the rear portion and connected thereto by an inclined or diagonal portion 17. The portion 16 has an opening 18 therein concentric with and of substantially the same size as the opening 11. Depending from the sides of the portion 15 are pivot lugs 19 wherethrough the pin or bar 14 passes so that the base and top member are hinged together intermediate their ends. A suitable spring urges the forward ends of the base and top member together and for this purpose a torsion spring 20 is shown in the first form and a leaf spring 21 in the second form.

In the first form of the invention the rear end of the top member is provided with a stud 22 whereon fits the eye 23 of a wire arm 24 extending forwardly and provided centrally of the opening 18 with an arcuate lateral thread engaging portion or head 25, the terminal portion of the wire being bent back under

this arcuate portion and extending out beyond the arm 24 as at 26 on the side opposite the portion 25. Thus one end of the head is of double the thickness of the other. This arm and the attached head can thus be swung to bring either end of the head over the opening 18, the arm engaging the top member with sufficient friction to remain where set.

In the form shown in Figures 6 and 7, the top member is provided with upstanding ears 27 at points on diametrical opposite sides of the opening 18 and each of these ears is provided with a plurality of vertically spaced openings 28 so that a pin 29 may be inserted through a pair of these openings to lie in desired spaced relation above the opening.

In use, the clamp is sprung open by digital pressure and a button B and the cloth C gripped therebetween as shown in Figure 2. Then the head or pin is suitably positioned and the stitches S necessary to hold the button to the cloth are taken around said head or pin. After sufficient stitches are taken the head or pin is withdrawn and the clamp removed. The button is now pulled out to the ends of the stitches and the usual wrapping is made around the stitches between the button and cloth.

There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

It is obvious that changes may be made in the form and construction of the invention without departing from the principles thereof. It is not, therefore, desired to confine the invention to the exact form herein shown and described but it is desired to include all such as come within the scope claimed.

Having thus described the invention, what is claimed is:—

1. A button spacer including a base, having an opening at one end provided with a slot extending through the edges of the base, a top member carried by the base and forming a button holder, and a stitch engaging member carried by the holder.

2. A button spacer including a base, having an opening at one end provided with a slot extending through the edges of the base, a top member carried by the base and forming a button holder, a stitch engaging member carried by the holder, and means for holding the stitch engaging member in selected spaced relation to the button holder.

3. In a button spacer, a spring button clamp including a base and a top member having concentric button exposing openings, and a stitch engaging member extending across the opening in the top member in spaced relation to said top member.

4. In a button spacer, a spring button clamp including a base and a top member having concentric button exposing openings, a stitch engaging member extending across the opening in the top member in spaced relation to said top member, and means to support said stitch engaging member in selected positions to vary the lengths of the stitches.

5. In a button spacer, a spring button clamp including a base member and a top member pivotally connected intermediate their ends, said members having opposed button exposing openings at their forward ends, an arm pivoted to said top member to have its free extremity move in an arc passing through the axis of said openings, and an arcuate head on said arm having its ends of different depths.

6. In a button spacer, a spring button clamp including a base member and a top member pivotally connected intermediate their ends, said members having opposed button exposing openings at their forward ends, lugs extending up from the top member at diametrically opposite sides of the opening therein, said lugs each having vertically spaced openings, the openings in one lug being alined opposite the openings in the other lug, and a pin insertable through selected openings in the respective lugs to extend across the button exposing opening of the top member.

7. A button spacer including a base, a top member carried by the base and forming a button holder, the base and the top member having registering openings rendering the button accessible for sewing, and a stitch engaging member held in operative position by the holder.

8. A button spacer including a base having an opening at the forward end, a top member carried by the base and forming a button holder, the top member having an opening registering with the opening in the base and providing access to the button for sewing, a thread engaging member and means for holding the thread engaging member in operative position over the holder.

9. A button spacer consisting of a pair of opposed clamping elements for holding buttons accessibly for sewing on a garment and a thread engaging member supported in operating position by one element of the clamping device.

JOSEPH M. NOEL.