

July 22, 1952

A. DOVICA
HOOK OF HOOK AND EYE
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2,603,848

Fig. 1.

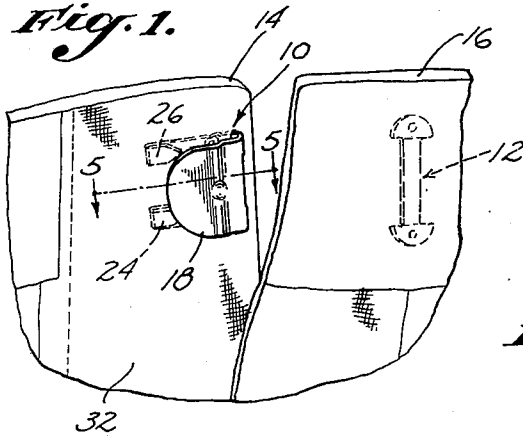


Fig. 2.

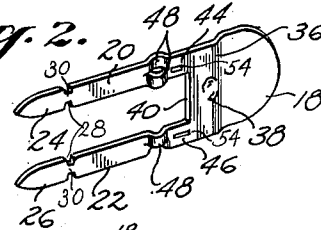


Fig. 3.

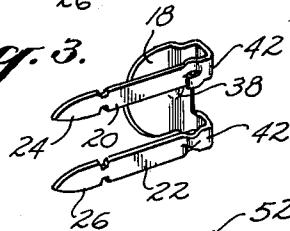


Fig. 5.

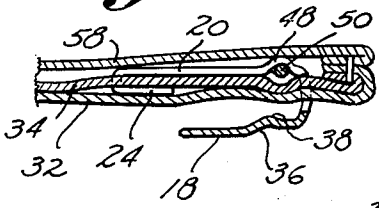


Fig. 4.

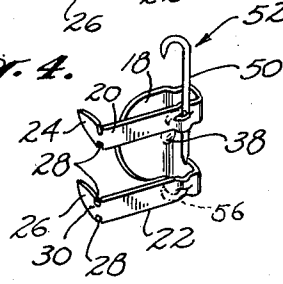


Fig. 6.

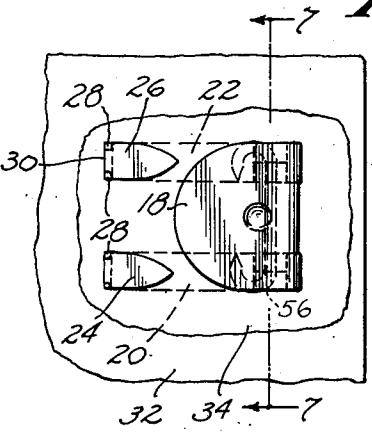
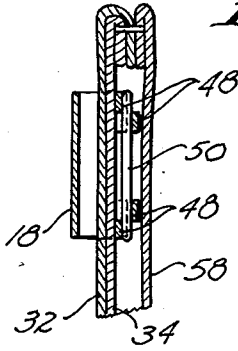


Fig. 7.



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UNITED STATES PATENT OFFICE

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HOOK OF HOOK AND EYE

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5 Claims. (Cl. 24—227)

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This invention relates to a garment hook of the hook and eye type. This is a continuation-in-part of my pending application S. N. 28,152, "Garment Clasp," filed May 20, 1948, now abandoned.

An object of the invention is to provide an improved hook made of form-retaining sheet material, wherein a single bent plate forms both a body portion and a pair of bendable limbs serving as a part of the means for attaching the hook to a garment, said limbs and body portion being bent in an improved manner, making a more sturdy, durable and dependable hook.

Another object is to provide a hook of the kind described with an improved pair of eyeletted lugs formed by out-bending portions of the sheet material in such a manner that the part of the hook bears in a flatwise manner against the pin which is inserted through said eyes, instead of in an edge-wise manner as is the more common practice when eyeletted lugs are provided to receive a pin.

Yet another object is to provide an improved two part means for attaching the hook to a garment so that the hook will, during use, remain immovably anchored to the part of the garment to which it is attached.

Other objects and advantages of the invention will be apparent from the following description and claims, the novelty consisting in the features of construction, combination of parts, the unique relations of the members and the relative proportioning, disposition, and operation thereof, all as more completely outlined herein and particularly pointed out in the appended claims.

In the drawings, which form part of the present specification:

Figure 1 is a perspective view along the fly of a pair of trousers showing my hook mounted on one portion thereof in position for attachment to an eye on the other portion;

Figures 2, 3, 4 are perspective views of my hook showing successive steps in its formation;

Figure 5 is a horizontal sectional view taken thru the mounted hook of Figure 1 along the line 5—5;

Figure 6 is an elevational view of the mounted hook with the foremost layer of fabric broken away; and

Figure 7 is a vertical sectional view taken thru the mounted hook along the line 7—7 of Figure 6.

My hook, indicated generally at 10 is of the hook type adapted to be connected to an elongated eye 12, the pair being here shown mounted along opposing faces of two juxtaposed garment

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portions 14, 16 for the purpose of detachably connecting the two garment layers.

As seen particularly in Figure 2, my hook is formed from an originally flat piece of elongated, deformable and form-retaining material such as metal, having an arcuate-ended plate 18, the opposite end of which is provided with a pair of parallel, laterally extending limbs 20, 22 each terminating in a pointed foot 24, 26. An opposing pair of notches 28 serve to delineate a line of weakness 30 for easy bending of each foot on its limb.

The plate or tab portion 18 is bent approximately perpendicularly to the limbs in the same direction as the feet 24, 26 so as to overlie the limbs, spaced apart therefrom by the thickness of two fabric layers 32, 34 plus the thickness of the eye 12. The tab is further bent upward a slight amount along the line 36 (Fig. 5) to guide the eye thereunder, and in addition is provided with a central depression or dimple 38 which engages the eye so as to prevent its accidental withdrawal. In bending back the plate 18, two lines of bending are formed, one adjacent the edge 40 of the plate (Fig. 2) and the other across the limbs at 42 (Fig. 3) also approximately perpendicularly so that the layers of fabric 32, 34 are traversed only by the thickness of the two limbs, and specifically only by the short portions 44, 46 thereof after the hook is anchored in place.

Adjacent the bending line 42, each limb is longitudinally split for a short distance and the two lengths oppositely bowed to form bearing ears or eyelets 48 arranged to receive jointly therein the shank 50 of a locking pin or keeper 52. A longitudinal reinforcing rib 54 (Fig. 2) is formed along each transverse portion of a limb by striking one face or the other of the metal with an indenting tool. (One face of the limb is thus pressed in and the opposite face pressed out.)

Generally the hook is furnished to the user in the form shown in Figure 4. In mounting, the fly 32 and reinforce stay 34 of the trousers are pierced by the limbs 20, 22 which are inserted up to the edge 40 and the feet 24, 26 then forced back thru the lining layer 34 and thereupon bent back upon their respective limbs (separated by the layer 34), as seen in Figure 5. The pin 52 is then inserted thru the bearing ears 48 so that its curved top comes to rest against the face of the limb 20 and its lower end is then bent up in a similar arc 56 (as with a pair of pliers) to abut against the face of the lower limb 22. This serves to anchor the limbs against withdrawal thru the cloth openings which they have made, while at the same time

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the pin does not weaken the fabric by any penetration thereof at all. In addition, the fabric 34 spread by insertion of the limbs will press back into the notches 28 so as to prevent accidental withdrawal of the feet 24, 26.

When thus mounted, it will be seen that the projecting tab 18 is of a good width or height to provide a sturdy engagement with a long eye 12, while at the same time only the narrower width of the limbs has penetrated the cloth. The opposite layer of cloth 58 (generally the garment facing) completely covers the outer other side of the limbs so that the hook is entirely sunk or embedded except for projection of the engaging tab 18.

While I have shown and described in some detail a presently preferred embodiment of my garment hook, it is to be understood that various modifications may be made in the construction and operation thereof within the spirit and scope of the subsequently claimed invention which it is my intention to claim broadly within the limitations imposed by the prior art.

I claim:

1. A hook consisting of a plate of form-retaining sheet material, having projecting from an edge thereof a pair of generally parallel, spaced apart, outwardly extending limbs, each having a pointed foot portion on its outer end adapted to be inserted thru a layer of fabric and bent back upon the limb, which plate and limbs are twice transversely bent approximately perpendicular so as to define a short portion along the inner end of each limb, which short portions dispose the plate generally parallel to and laterally spaced from said limbs, said limbs adjacent the short portions being provided with transversely aligned eyelets adapted to receive a locking pin jointly therethru.

2. The hook of claim 1 wherein said short portions are formed with longitudinal reinforcing ribs extending only between their terminal lines of bending.

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3. For use with two juxtaposed layers of fabric, a hook consisting of a plate of form-retaining sheet material, having projecting from an edge thereof a pair of generally parallel, spaced apart,

5 outwardly extending limbs, each having a pointed foot portion on its outer end which is inserted thru one layer of fabric and bent back upon the limb, which plate and limbs are twice transversely bent approximately perpendicular so as to define a short portion along the inner end of each limb, which portions dispose the plate generally parallel to and laterally spaced from said limbs along the same side as the turned back feet, said short portions serving to penetrate both layers of fabric, said limbs adjacent the short portions being provided with transversely aligned eyelets, a pin extending thru the aligned eyelets whereby movement of the penetrated fabric back from the short portions along the limbs is prevented.

4. The hook of claim 3 wherein the inserted end of said pin is bent in locking relation after insertion thru said eyelets.

5. The hook of claim 3 wherein each foot portion is provided with notches adjacent its connected limb so as thereby to provide a line of bending which permanently traverses said fabric layer when the foot is turned back upon its limb.

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