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H. H. WOOD

3,101,518

FASTENING DEVICES FOR WEARING APPAREL

Filed Nov. 15, 1960

Fig. 1.

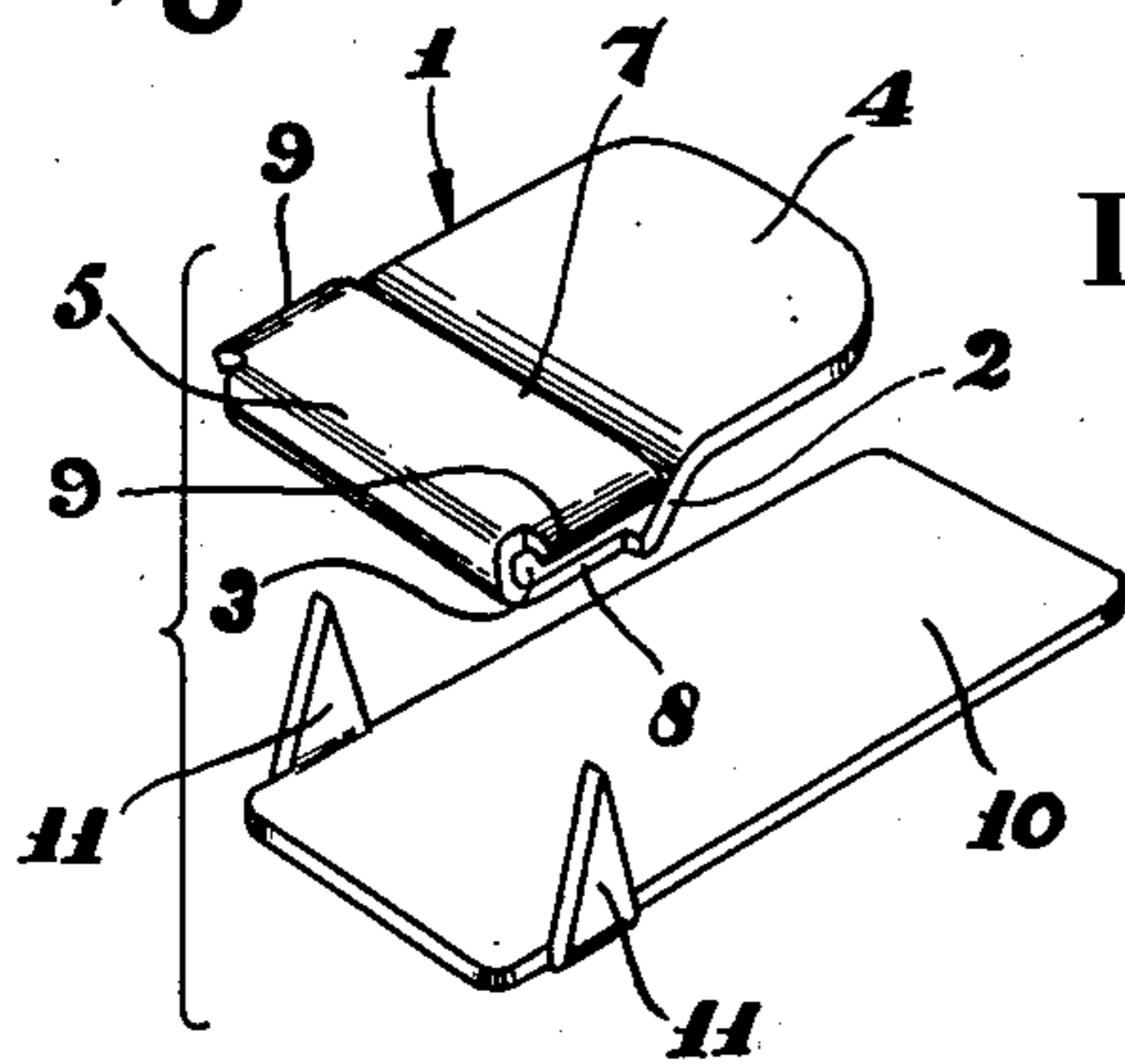


Fig. 2.

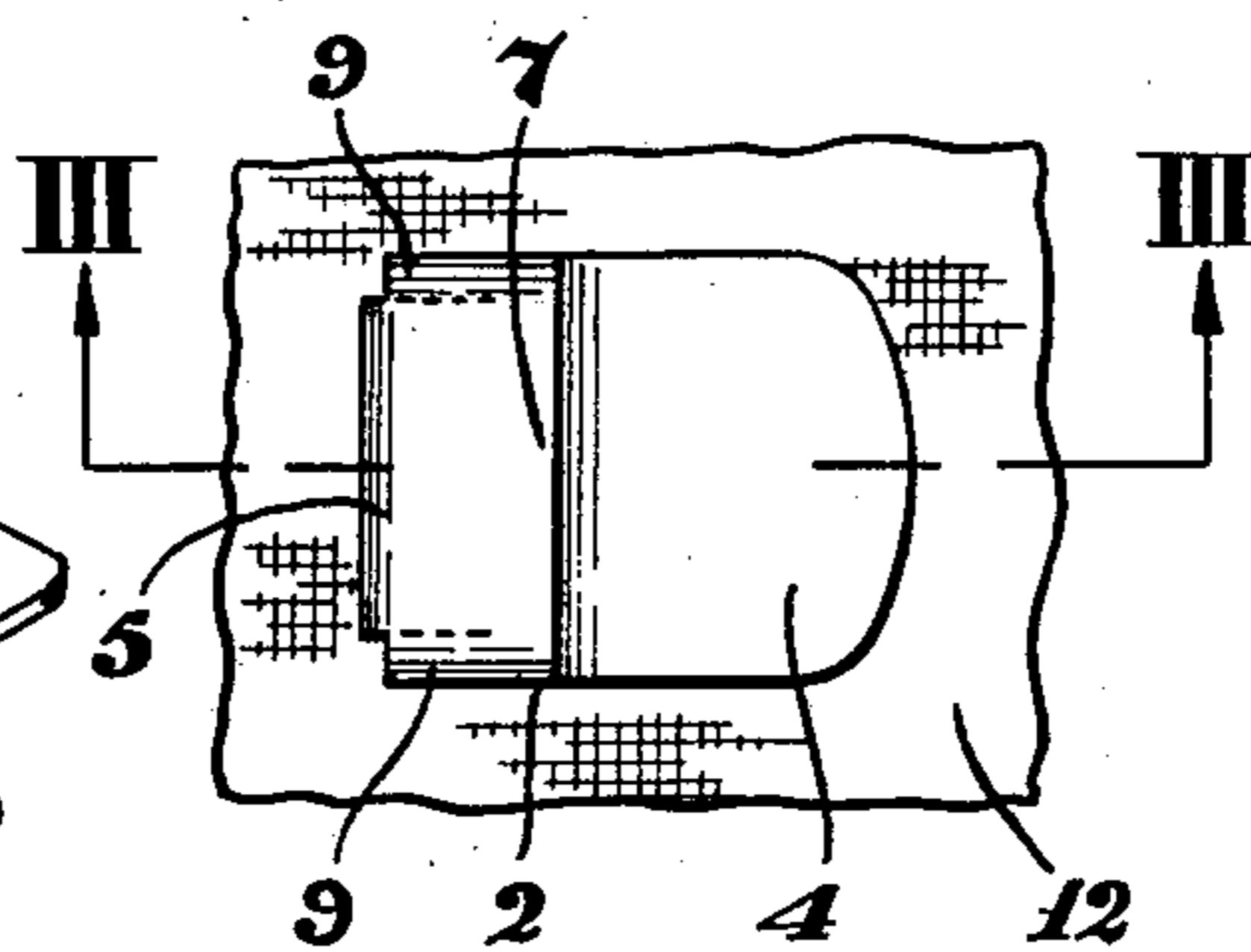


Fig. 3.

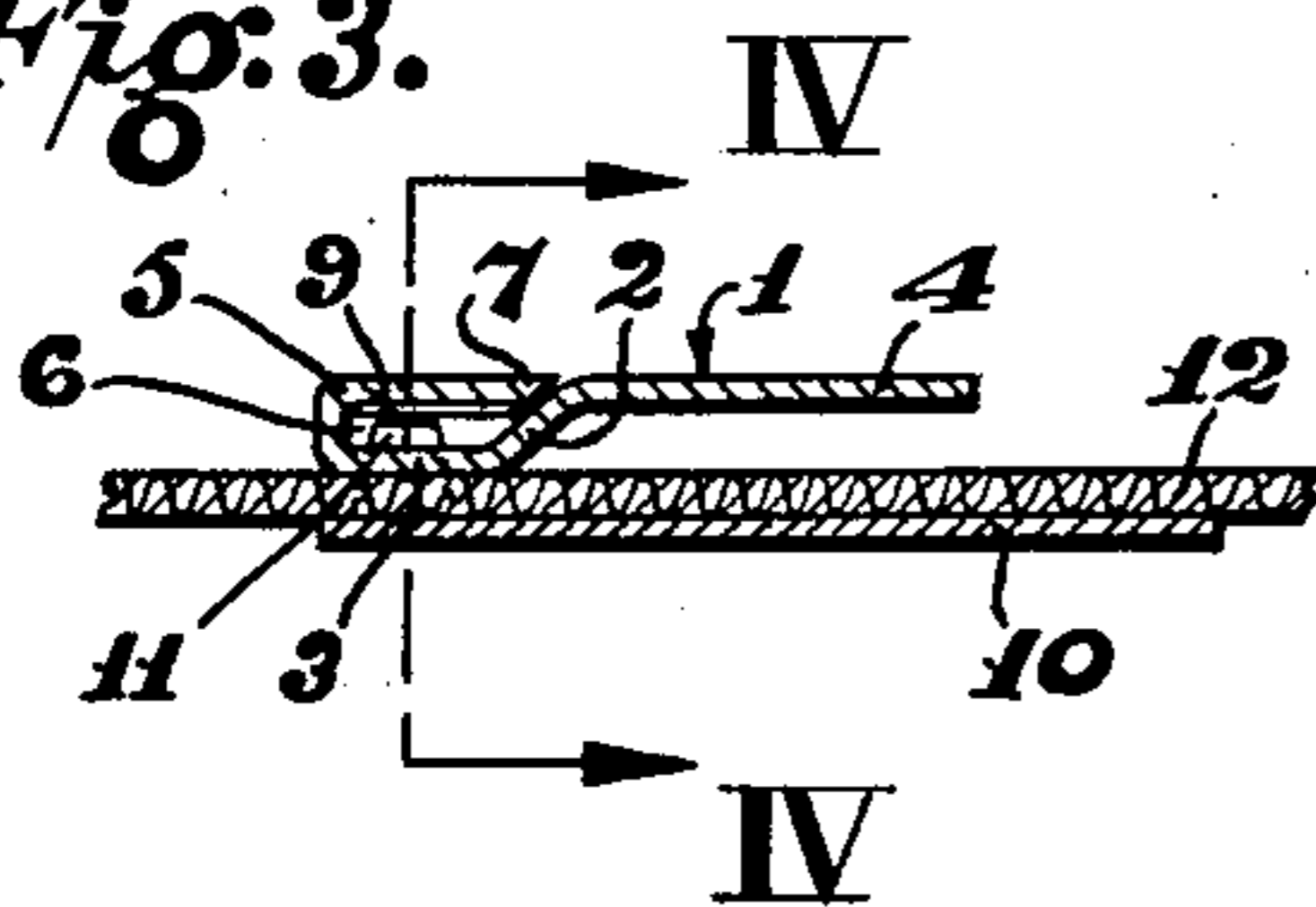


Fig. 4.

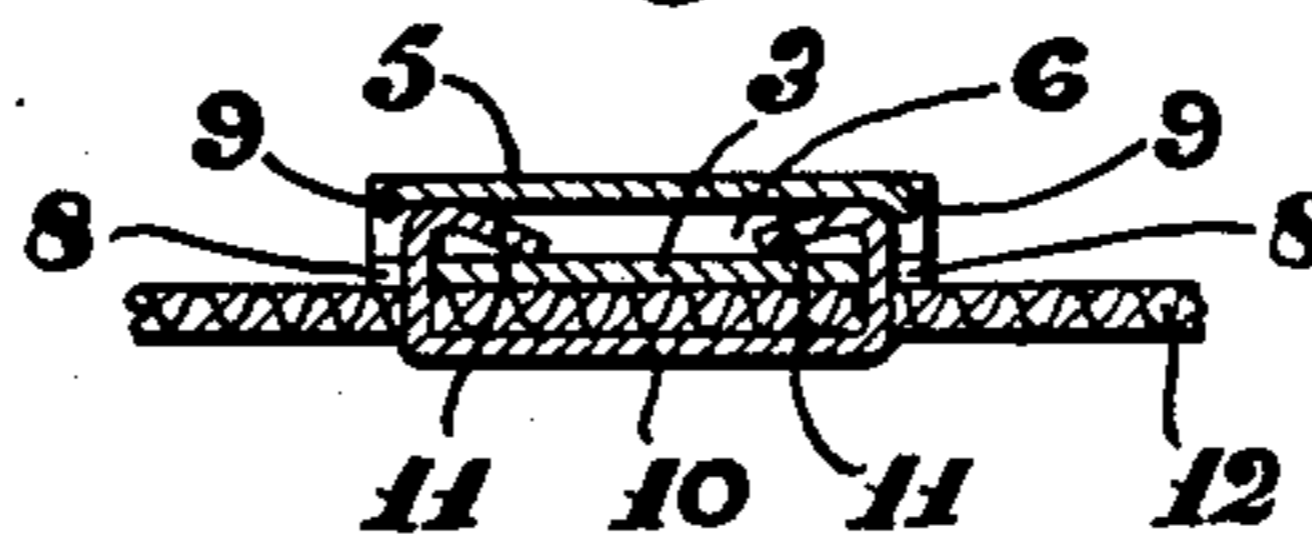


Fig. 5.

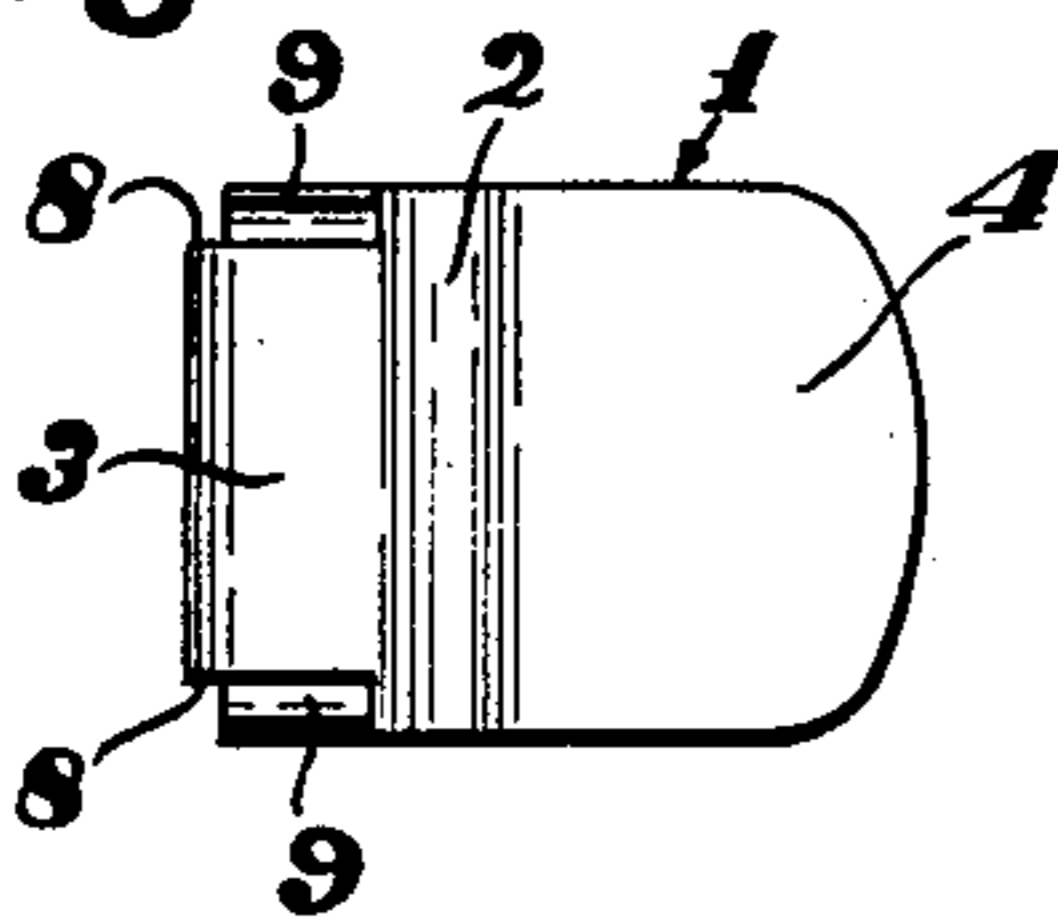


Fig. 6.



Fig. 7.

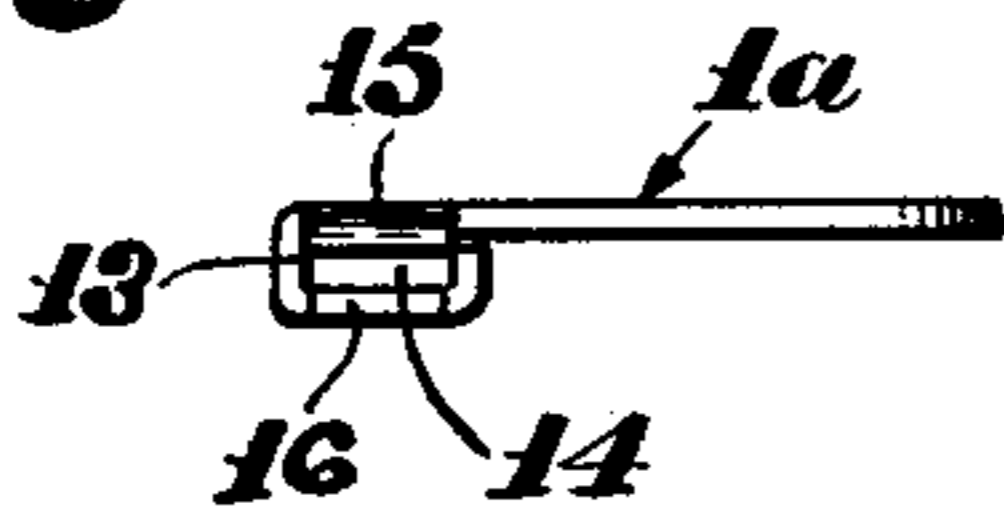
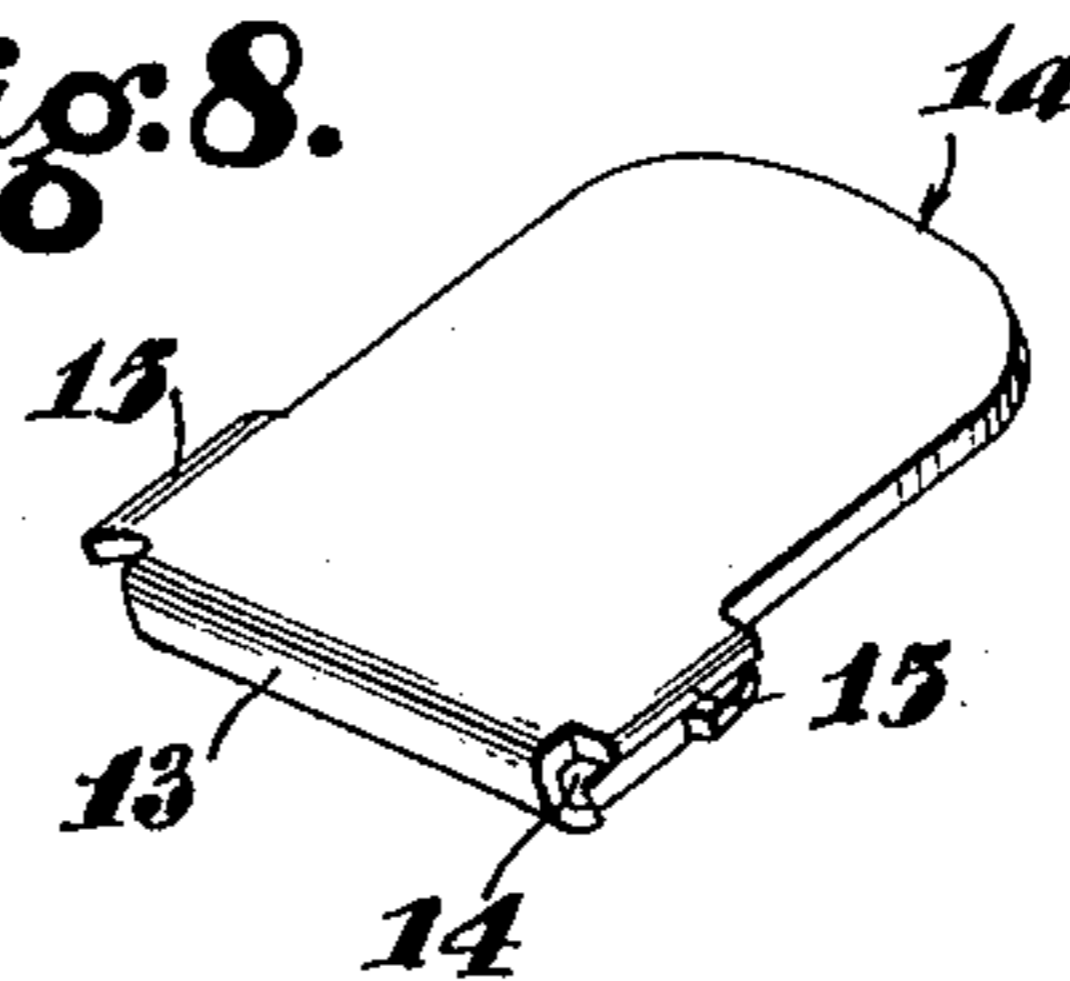


Fig. 8.



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FASTENING DEVICES FOR WEARING APPAREL
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5 Claims. (Cl. 24—227)

This invention relates to fastening devices for wearing apparel, and especially for detachably connecting the overlapping ends of the waistbands of trousers, skirts and the like; said fastening devices being of the kind comprising a hook, or the equivalent of a hook (such as a cranked plate), adapted for detachable engagement with an eye, staple or loop part, and adapted to be secured to the garment by means of clenched prongs.

Heretofore, such hooks or hook equivalents have been attached by means of prongs carried either on a base portion thereof or on a separate back plate applied to the opposite face of the garment material to that to which the hook or the like is attached, but with such method of attachment the clenching of the prongs has involved the use of tools or dies which include an anvil for the curling over and closing down of the prongs.

An object of the present invention is to provide an improved fastening device which can be attached to the material of a garment by means of a prong-carrying back plate without the use of dies or tools which include an anvil for clenching the prongs.

A further object is to provide an improved fastening device which is adapted to be attached to a garment by a prong-carrying back plate without the prongs being visible when the attachment operation has been completed.

According to the invention, a fastening device for wearing apparel comprises a plate one end of which forms a hook tongue and the other end of which is folded over to form a transverse pocket for receiving the prongs of a prong-carrying back plate, the lower wall of the pocket being adapted to seat upon the garment material and the upper wall of said pocket being provided with inclined prong-clenching surfaces adapted to co-operate with the prongs, during the clenching operation, and cause them to be bent over inside the pocket.

In the accompanying drawing,

FIGURE 1 is a perspective view of a fastening device in accordance with the invention, shown together with its associated prong-carrying back plate.

FIGURE 2 is a top plan view of the device shown attached to garment material.

FIGURE 3 is a sectional view on line III—III, FIGURE 2,

FIGURE 4 is a sectional view on line IV—IV, FIGURE 3.

FIGURE 5 is an underside plan view of the device, and

FIGURE 6 represents an end elevation.

FIGURE 7 is a side-elevation view showing a modified form of fastening device, and

FIGURE 8 is a perspective view of the fastening device shown in FIGURE 7.

The device shown in FIGURES 1 to 6 comprises a sheet-metal 1 cranked transversely at 2 to produce a base part 3 and a forwardly-spaced tongue 4 which serves as the equivalent of a hook for engagement with a staple, bridge-piece, loop or the like. The base part 3 is of the same width as the forwardly-spaced tongue 4 and the rear end portion is extended, the extension part 5 being folded forwardly over the main lower part of the base so as to lie in spaced relation thereto and thus form a transverse open-ended pocket or sleeve 6 (see FIGURES 3 and 4), the end edge 7 of said bent-over extension part 5 lying adjacent the crank 2 between the front tongue

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4 and the base part 3. Opposite side edges of the base part 3 have gaps or notches 8 formed in them, and the opposite side portions 9, 9, of the folded-over extension part 5 (forming the top wall of the pocket 6) are bent down to a chamfered or bevel form and lie over the gaps or notches 8.

This hook-like device is attached to the garment by means of a back plate 10 which is applied to the rear face of the garment material and which is provided towards one end with two upstanding pointed prongs 11, 11, one at each side of the plate 10 and spaced from one another by a distance equal to that between the gaps or notches 8 in the base part 3 of the hook-like device. In attaching the device, these prongs 11, 11 are passed through the garment material 12 from the rear and, by means of a clenching press, are caused to pass through said gaps 8, 8, of the hook device which is positioned on the front face of the material, the points of the prongs 11, 11, being caused to engage and be forced against the chamfered or bevelled side portions 9, 9, of the extension part 5 of the base-plate pocket 6. These side portions 9, 9, act as an anvil, and cause the prongs 11, 11, to be bent over laterally towards one another and to enter the pocket 6 so that in their final clenched position they lie against the base part 3 of the pocket (see FIGURES 3 and 4). The hook-like device is thus firmly secured to the material 12 with the front tongue 4 slightly spaced from the material to enable it to be readily engaged with a staple, eye or the like.

Preferably, the back plate 10 is, as illustrated, of a length such that it extends somewhat beyond the free end of the front tongue 4, thereby facilitating engagement of the latter with the staple, eye or the like.

In a modification shown in FIGURES 7 and 8, instead of the plate 1 being cranked and the extended end portion of the base of the hook-like device being folded over the top of the main portion of said base, the plate 1a is flat with one end 13 folded beneath, to form the transverse pocket 14 for receiving the prongs of the back plate. In this case, the opposite sides of one end of the main portion of the plate 1a is provided with chamfered or bevelled surfaces 15 for bending over the prongs, and gaps 16 for the prongs are formed underneath in the edges of the folded-under end 13.

I claim:

1. A fastening device for a garment, comprising a backing plate disposed on one side of the material of said garment and having integral attachment prongs extending through to the other side thereof; and a longitudinal plate member disposed on said garment over the underlying backing plate, said plate member having a tongue-shaped hook portion at one end and an integral hollow, transversely directed, prong enclosing portion at the other end, the attachment prongs of said backing plate extending into said hollow portion through longitudinally directed side openings therein, the tongue-shaped hook portion of said plate member being spaced a distance away from the garment.

2. A fastening device for a garment, comprising a backing plate disposed on one side of the material of said garment and having integral attachment prongs extending through to the other side thereof; and a longitudinal plate member disposed on said garment over the underlying backing plate, said plate member having a tongue-shaped hook portion at one end and an integral folded-over pocket portion at the other end, said pocket portion having an inclined end wall integral with the inner end of said tongue-shaped hook portion, and spaced upper and lower walls, the upper wall of said pocket portion being in planar alignment with said tongue-shaped hook portion, said pocket portion further having longitudinally directed side openings, the attachment prongs of said back-

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ing plate extending into said hollow portion through said side openings.

3. A fastening device in accordance with claim 2, wherein the tips of the sides of said upper wall extend inclinedly in the direction of said lower wall to provide prong-clenching surfaces. 5

4. A fastening device in accordance with claim 3, wherein the sides of said lower wall have slotted marginal portions.

5. A fastening device in accordance with claim 2, 10 wherein the upper wall of said pocket portion is an

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integral co-planar extension of said tongue-shaped hook portion, the transverse end wall of said pocket portion remote from said tongue-shaped hook portion being integral with said upper wall.

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