Dec. 20, 1949 M. HELLER 2,491,977

FASTENING DEVICE FOR BRACELETS AND WRISTBANDS

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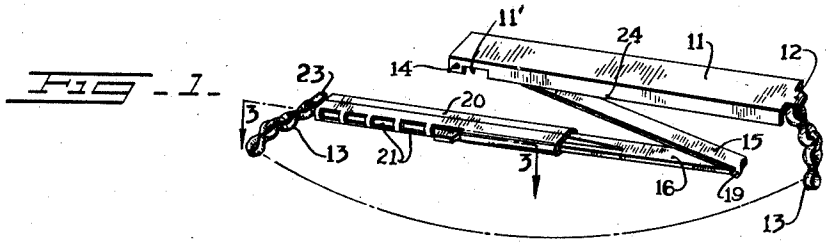

FIG - 1 -

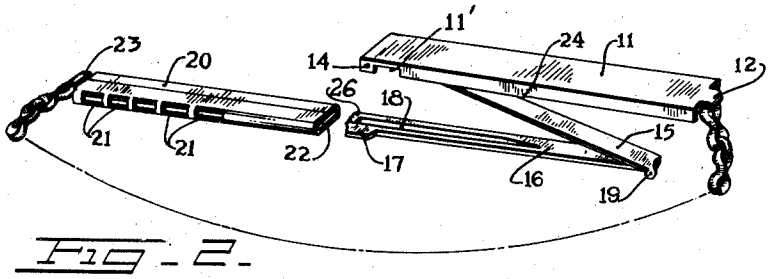

FIG - 2 -

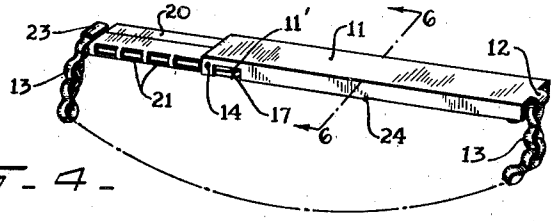

FIG - 4 -

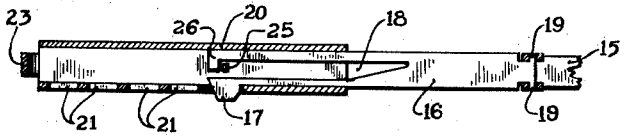

FIG - 3 -

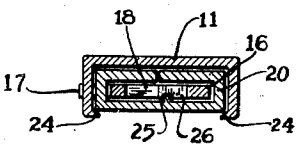

FIG - 6 -

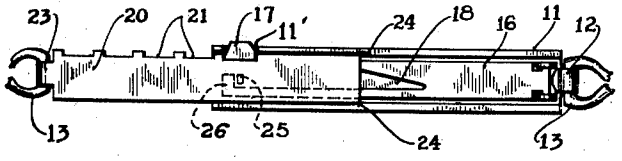

FIG - 5 -

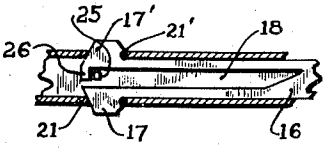

FIG - 7 -

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FASTENING DEVICE FOR BRACELETS AND WRISTBANDS

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3 Claims. (Cl. 24—71)

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The present invention relates to fastening devices for bracelets and wristbands.

Among the objects of the invention is the provision of an adjustable and readily movable fastening device for use where compactness and ornamental appearance are desirable.

A further object of the invention is to provide such a fastening device which may be actuated to permit removal or application of the bracelet by the use of a single hand and eliminates the use of the finger nails.

Another object of the invention is to provide a fastening device of this character which is adjustable in length. This adjustment permits all bracelets or wristbands to be of fixed length, the adjustment for various sizes being provided in the fastening device.

It is another object of the invention to provide an adjustable fastening device of extreme simplicity and which may accordingly be manufactured at a minimum of cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 shows a perspective view of a partially closed fastening device embodying the invention.

Fig. 2 shows a perspective view of the embodiment of Fig. 1, disassembled to illustrate certain structural details.

Fig. 3 is a sectional plan view taken along the line 3—3 of Fig. 1, looking in the direction of the arrows.

Fig. 4 is a perspective view of the embodiment of Fig. 1 in the closed position.

Fig. 5 is a bottom view of the device shown in Fig. 1.

Fig. 6 is a view in sectional elevation taken along the line 6—6 of Fig. 4, looking in the direction of the arrows.

Fig. 7 is a fragmentary plan sectional view of a modified form of the invention.

Referring to Fig. 1, the fastening device comprises an outer or cover member 11 having a sharply curved portion 12 which is shaped to provide an aperture to secure a link of chain bracelet 13. Hingedly secured to cover member 11 is a compression member 15. The hinge is shown at 14 as consisting of two small projections on compression member 15 which engage holes in cover member 11.

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An inner adjustment member 16 is shown provided with a lug 17, and a longitudinal slot 18 having an inwardly projecting hook 26, being hingedly secured to compression member 15 at 19. The hinge arrangement is similar to that shown at 14. An outer adjustment member 20 is shown formed from a single piece of flat material and is provided with an internal notch 25 for engagement with the inwardly projecting hook 26 of the inner adjustment member 16, and a series of spaced lateral apertures 21 of dimensions adapted for engagement with lug 17 of internal adjustment member 16. Member 20 is open at one end as indicated at 22 to receive member 16, the opposite end of member 20 being sharply curved to provide a closed hook portion 23 adapted to receive an end link of chain 13.

When the fastening device is closed as shown in Fig. 4, an opening or cut out 11' in cover member 11 provides clearance for projecting lug 17 and inwardly bent portions 24 of cover member 11 grip the sides of external adjustment member 20 to retain the device in the closed position.

To open the fastening device a slight pressure inwardly of member 17 which is provided with a sharp angle which will permit snapping out from member 21 and thus permitting member 20 to release from member 16 by pulling to an outward direction where member 20 will be disengaged from member 24 as shown in Fig. 4 or 5 and thus permitting the fastening device to be unfolded as shown in Fig. 1. The fastening device may also be opened when an upward pull is exerted on cover member 11 which disengages the inwardly extending portions 24 from lateral engagement with outer adjustment member 20, thus permitting the fastening device to be unfolded providing sufficient additional length so that the bracelet may be removed from the wrist.

The length of the device may be adjusted by pressing lug 17 inwardly which will permit inner member 16 to be moved so that lug 17 will engage any desired one of the several apertures 21 of outer member 20. A resilient spring action urging lug 17 outwardly is provided by the longitudinal

slot 18 in inner member 16. Lug 25 provides a catch for hook 26 to prevent inner member 16 from becoming completely disengaged from outer member 20 unless desired.

Lug 17 is constructed with a sharp angle that facilitates member 20 to be easily pushed into its contracted position and thus interlocks with member 24 to lock the clasp securely and to any wrist adjustment.

Adjustment members 16 and 20 may be made symmetrical as indicated in Fig. 7 by providing an additional lug 17' adapted for engagement with additional apertures 21'.

It will be seen that the fastening devices consist in their entirety of only four parts, each of which is adapted for quantity production by means of blanking and forming dies for example, if the device is constructed of metal. Also that the members 11, 15, 16 and 20, may be preferably curved to conform with the wrist of the wearer.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. In a fastening device of the class described, a cover member, a compression member hingedly secured to the cover member, an outer adjustment member having a plurality of lateral apertures therein, an inner adjustment member hingedly secured to the compression member and shaped for engagement with the outer adjustment member and provided with a longitudinal slot to form two resilient arms, a lug with a sharp angle on one of the arms disposed for yielding engagement with any one of the plurality of apertures in the outer adjustment members, and an inwardly projecting hook on the other arm of the longitudinal slot for retaining engagement with an internal notch in the outer adjustment member.

2. In a fastening device of the class described, a cover member, a compression member, hinge means securing an end portion of the cover member to the compression member, an outer adjustment member having a plurality of lateral apertures therein, an inner adjustment member shaped for engagement with the outer adjustment member and having a longitudinal slot therein to provide two resilient arms, a lug with a sharp angle on one of the arms disposed for yielding engagement with any one of the apertures in the outer adjustment member, an inwardly projecting hook on the other arm of the longitudinal slot for retaining engagement with an internal notch in the outer adjustment member, and further hinge means securing an end portion of the inner adjustment member to an end portion of the compression member opposite to the first named end portion.

3. In a fastening device of the class described, a cover member, a compression member, hinge means securing an end portion of the cover member to the compression member, an outer adjustment member having a plurality of lateral apertures therein, an inner adjustment member shaped for engagement with the outer adjustment member and having a longitudinal slot therein to provide two resilient arms, a lug with a sharp angle on one of the arms disposed for yielding engagement with any one of the apertures in the outer adjustment member, an inwardly projecting hook on the other arm of the longitudinal slot for retaining engagement with an internal notch in the outer adjustment member, further hinge means securing an end portion of the inner adjustment member to an end portion of the compression member opposite to the first named end portion, each hinge means comprising small projections on one of the members adapted for engagement with corresponding holes in the other member.

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