Mar. 13, 1923. 1,448,028

F. G. GRUEN

CLASP

Filed Oct. 8, 1920

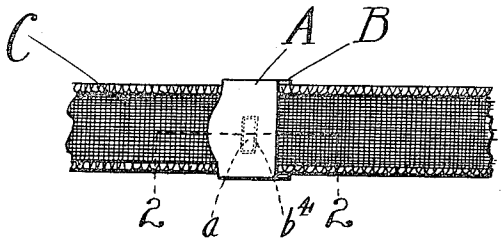

Fig. 1

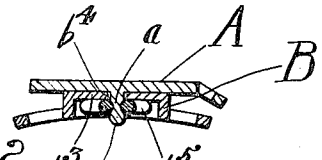

Fig. 2

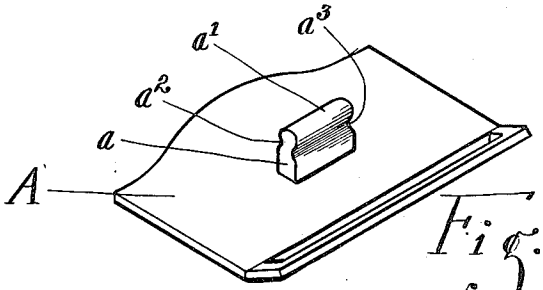

Fig. 3

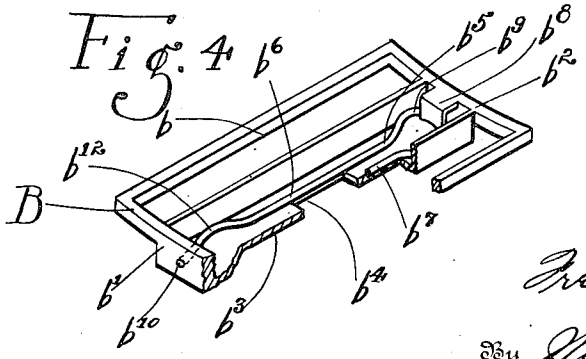

Fig. 4

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Patented Mar. 13, 1923. 1,448,028

UNITED STATES PATENT OFFICE.

FREDERICK G. GRUEN, OF CINCINNATI, OHIO, ASSIGNOR TO THE GRUEN WATCH COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

CLASP.

Application filed October 8, 1920. Serial No. 415,600.

To all whom it may concern:

Be it known that I, FREDERICK G. GRUEN, a citizen of the United States of America, and resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in a Clasp, of which the following is a specification.

An object of my invention is to provide a clasp that is especially adaptable to wrist bands such as are used on wrist watches, etc.

Another object is to provide a clasp that will be ornamental as well as useful.

Another object is to provide a neat, simple and relatively thin clasp that will be light in weight and that will give efficient service.

These and other objects are attained by the means described herein and disclosed in the accompanying drawing in which:

Fig. 1, is a plan view of a clasp embodying my invention, mounted upon a wrist watch band.

Fig. 2, is an enlarged sectional view on line 2—2 of Fig. 1.

Fig. 3, is an enlarged perspective view of the rear of the plate forming a detail of my invention.

Fig. 4, is an enlarged fragmental perspective view of the rear of the base forming a detail of my invention.

The plate A has a lug a extending therefrom, the lug having a head a' formed above the parallel longitudinal notches a^2 and a^3 formed in the sides of the lug. The notches form seats for a purpose that will be explained hereafter.

The base B comprises a frame b between the sides b' and b^2 of which extends cross bar b^3 having a central slot b^4. A spring b^5 having arms b^6 and b^7 is mounted on the cross bar, and is retained thereon by the lug b^8 extending from side b^2 and securing the loop b^9 formed on the spring, to the frame b.

The spring arms b^6 and b^7 have their ends b^{10} and b^{11} respectively embedded in the side b' of the frame. The arms are arched adjacent their ends, the arm sections, between the arched sections b^{12} and b^{13} and the eye b^9, being parallel and extending over the slot b^4 in the bar b^3. The arms are spaced from one another a distance slightly less than the thickness of the lug a between the notches a^2 and a^3 therein.

The band C is attached to the plate and the base and extends around the wearer's arm or wrist.

The operation of my device is as follows:

The plate A is placed over the base B, the lug a extending into the slot b^4 in the base. By exerting pressure upon the plate A, the head a' on the lug is moved upon the arms b^6 and b^7 of spring b^5, pushing such arms apart and causing the head to pass beyond said arms. As soon as the head has passed the arms, the spring arms tend to resume their normal or unstrained position, whereby the arms seat in the notches a^2 and a^3 on the lug and secure the lug between them, consequently holding the plate upon the base. The plate and base are separated by moving the head of the lug back between the arms and thru the slot b^4. This is readily accomplished by inserting the finger nail between the plate and base.

What I claim is:—

1. In a clasp the combination with a base adapted to be secured upon a wrist band and comprising a frame, a slotted cross-bar on the frame, spring arms mounted on the frame adjacent the slot in the cross-bar, of a plate adapted to be secured upon a wrist band, and a lug extending from the plate, the lug being adapted to extend thru the slot in the cross-bar and to be secured between the spring arms.

2. In a clasp the combination with a base comprising a frame adapted to be secured upon a wrist band, a slotted cross-bar on the frame, spring arms mounted on the base and extending over the cross-bar adjacent the slot therein, of a plate adapted to be secured to a wrist band, a lug on the plate, and a head on the lug, the head being adapted to pass thru the slot and between the spring arms, whereby the lug will be yieldably retained in frictional contact with the spring arms.

3. A clasp comprising a base, a spring and

a lug plate, the base having sides connected by a slotted cross bar, the spring having arms with a connecting loop and with arches at their ends, the spring being mounted upon the base with its arms located upon opposite sides of the slot and with the loop engaging one of the sides of the base and its ends engaging the other side of the base and the plate having a lug adapted to pass through the slot and to engage the arms.

In witness whereof, I have hereunto subscribed my name this 7th day of October, 1920.

FREDERICK G. GRUEN.