Dec. 4, 1934. L. NOVAT 1,983,186

SAFETY PIN

Filed May 19, 1933

Fig. 1.

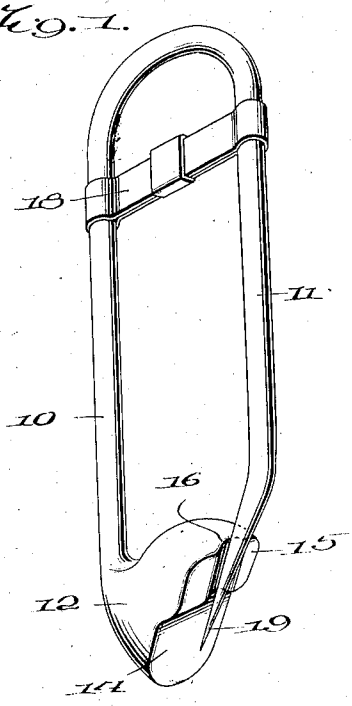



Fig. 2.

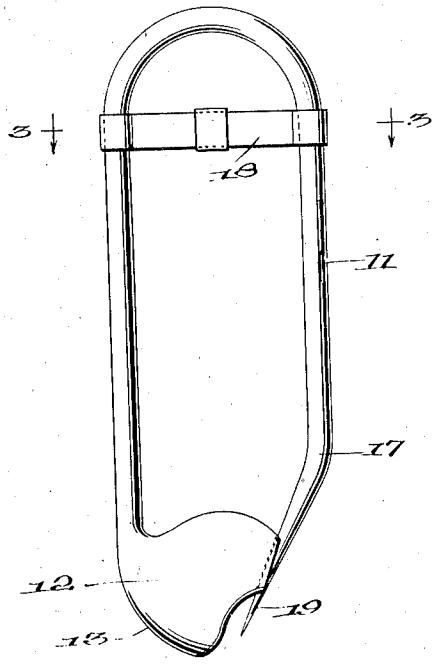



Fig. 3.

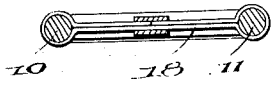
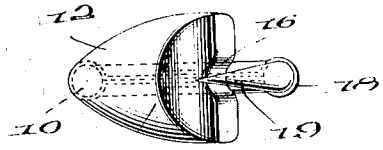



Fig. 4.




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Patented Dec. 4, 1934 1,983,186

# UNITED STATES PATENT OFFICE

1,983,186

## SAFETY PIN

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Application May 19, 1933, Serial No. 671,921

8 Claims. (Cl. 24—150)

My invention aims to provide an improved securing device or pin of the so-called "safety pin" type which embodies the safety features of the conventional types of pin and at the same time enables the device to be more easily applied and removed in use.

The safety pin in general use today includes tensioned shanks which normally spring outwardly when released from the guard and the use of two hands is required to secure the device to a piece of fabric. This usual type of pin member is fastened by bending it to one side and then springing its point under the guard member where it is seated in a socket, and the construction is such that if an unusual strain is exerted on the pin with relation to the fabric, the latter is likely to be torn.

One of the objects of my invention is to provide a safety pin which can be readily attached and removed with one hand.

Another object is to provide a pin which will be less liable to tear fabrics to which it is secured.

A further object is to provide an article of extremely simple construction which will at the same time be very durable and capable of repeated use.

Still further objects and advantages will be made apparent in the accompanying drawing showing one embodiment of my invention for purposes of illustration, wherein

Fig. 1 shows a perspective view of my pin;

Fig. 2 shows a side view thereof;

Fig. 3 shows a cross-section taken on line 3—3 of Fig. 2; and

Fig. 4 is an end view, all of the views showing the device in its normal position.

In the particular embodiment of my invention shown in the drawing, the pin comprises a substantially U-shaped spring metal body portion having shanks 10 and 11 which are normally held together by spring tension. A suitable head or guard 12 is carried by and may be formed integral with the shank 10 and may be made solid or hollow as desired. On the sides and outer end 13 the guard is rounded or convex to avoid tearing the material to which the pin may be attached. At the outer side the guide is provided with stepped faces 14 and 15, the face 14 near the end of the head being made lower than the other. A groove or depression 16 in the face 15 runs longitudinally of the shanks to receive the point portion, giving that face a substantially concave shape.

The shank 11 is pointed at its free end 19 to form a pin member and provided with a bend 17. To supplement the natural tension of the shank members and stiffen the pin body, a tensioning band 18 is fixedly secured around said shanks near their junction.

The function of my invention is extremely simple. Due to the tension of the shanks the point 19 is held normally against the face 15 in the groove 16, and is protected thereby from accidental contacts, but with one hand the point can be inserted in or through a piece of fabric by engaging the latter in the space between the point and the face 14 of the guard. By continuing the movement of the pin, point first, the bend in the shank 11 causes the point to pierce the fabric again and it will immediately seat itself in the groove 16. As shown in the drawing, the pointed end lies within the arc or arcs defining the shape of the guard 12 where it is held in a safe position due to the tension exerted by the U-shaped body and the band 18.

If any undue strain sufficient to tear the fabric is exerted, the construction of my pin is such that the fabric can slip off the shank 11 without injury. And in like manner, the pin may be removed by simply pulling the shank 10 in a direction away from the point end of the article.

My invention obviously is not restricted to the particular embodiment thereof herein illustrated and described.

Having disclosed one illustrative embodiment of my invention, what I claim and desire to secure by Letters Patent is:

1. A safety pin comprising a body portion, a guard on said body, and a spring pin member opening away from said body portion and adapted to bear against the outer surface of said guard, said body and pin members being tensioned toward each other to hold the pin member against the guard in normal position.

2. A safety pin comprising a guard having a substantially concavo-convex surface, facing outwards, and a pin member pointing toward the open end of the device and in separable engagement with said concave surface.

3. A safety pin comprising spaced shank members tensioned to press together in normal position, a guard member on one of said shanks and of less width than the distance between said shanks, and a pin member formed by the other of said shanks, said pin being bent near its point to contact against said guard.

4. A safety pin comprising a pair of spaced shank members tensioned toward each other, a guard carried by one of said shanks, and a pin formed on the other shank and normally contact-

ing said guard to protect its point, said pin in contacting position having its point exposed on the outer side of said guard only.

5. A safety pin comprising a body, a guard on said body having a rounded end surface and a bent pin member contacting said guard on its outer face with its pointed end terminating short of the perimeter of said rounded end surface to be partly protected thereby.

6. A safety pin comprising a doubled spring metal body of U-shape provided with a guard at the end of one of its arms and a point at the end of the other arm, said guard having a stepped surface facing said point, the outer stepped portion being grooved to receive the point.

7. A safety pin comprising a doubled spring metal body of U-shape provided with a guard at the end of one of its arms and a point at the end of the other arm, said guard having a stepped surface facing said point, the outer stepped portion being grooved to receive the point, and the length of said point being sufficient for it to overlap the inner stepped portion to expose its tip.

8. A safety pin comprising a doubled spring metal body of U-shape provided with a guard at the end of one of its arms and a point at the end of the other arm, said guard having a stepped surface facing said point, the outer stepped portion being grooved to receive the point, the end of said inner stepped portion extending beyond said tip to protect it.

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