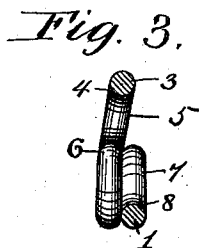
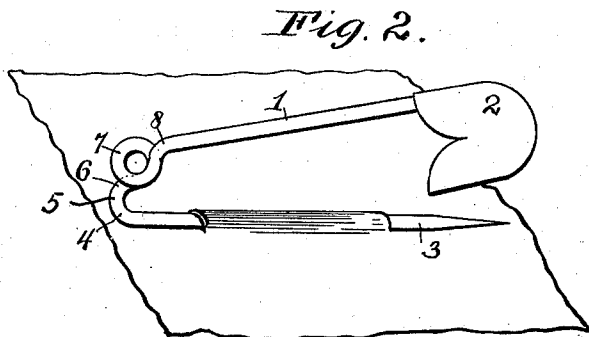
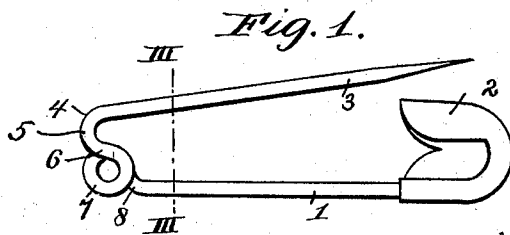


(No Model.)

C. L. MISSEL.
SAFETY PIN.

No. 535,456.

Patented Mar. 12, 1895.



Witnesses
Chas. W. Parker
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UNITED STATES PATENT OFFICE.

CHARLES L. MISSEL, OF OAKVILLE, CONNECTICUT.

SAFETY-PIN.

SPECIFICATION forming part of Letters Patent No. 535,456, dated March 12, 1895.

Application filed February 16, 1894. Serial No. 500,400. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. MISSEL, a citizen of the United States of America, residing at Oakville, Litchfield county, Connecticut, have invented certain new and useful Improvements in Safety-Pins, of which the following is a specification.

My invention relates to that class of pins which are formed of a pin-bar provided at one end with a point, and of a back-bar having a suitable catch or cap, and intermediate between said bars with a spring coil which gives range of movement and elasticity to the pin.

My improvement relates more particularly to the formation of such spring coil with a view to maintain its strength, elasticity and effectiveness as a means for pressing outward and opening the pin arm, and at the same time to give it such form to prevent the fabric of the cloth, garment or other article secured by the pin from being wedged in the convolutions of such coil and torn. With pins made according to my invention such accident cannot occur, and the pin can always be readily detached from the fabric in which it is inserted.

With such object in view my invention consists in a safety-pin comprising a back bar and a pin-bar and an intermediate connecting coil, said coil being on the outer side of the rear end of the pin, and the pin being curved outwardly at its rear end between the pin-bar and the coil.

Such being the general nature of my invention, in order to make the same more clearly understood I have shown in the accompanying drawings means for carrying the same into practical effect, without limiting the improvement in its useful applications to the particular construction, which, for the sake of illustration, I have delineated.

In said drawings—Figure 1 is a side view of a safety-pin embodying my invention. Fig. 2 is a view of the opposite side with the pin inserted in a fabric. Fig. 3 is a sectional view on line III—III of Fig. 1, somewhat enlarged.

Referring to the drawings, 1 indicates the back bar of the pin; 2, the cap for receiving and retaining the point; and 3 the pin bar or impaling portion. The rear end of the latter extends outward below the coil as indicated at 4, terminating in an upward bend or arm 5. The latter turns inward as shown at 6 and thence runs inward and upward into the coil 7. Thus instead of being connected directly with or running into the outer side of the spring-coil, the pin 3 terminates in the inner side of such coil the latter being thus situated on the outer side of the pin. The coil may consist of one or more turns as found preferable, the last of which turns upward and inward as shown at 8, into the outer end of the back 1. It will be observed that there is thus formed by the parts 4, 5 and 6 a recess or *cul de sac* which will retain the fabric and prevent its being jammed or drawn between the pin portion and the coil with the consequent damage and annoyance heretofore often experienced.

It is to be understood that while I have illustrated my invention in connection with a safety pin, it may be used with other equivalent impaling or securing devices or pins without departing from the essential features thereof.

I claim—

A safety pin comprising a back bar and a pin-bar, and an intermediate connecting coil, said coil being on the outer side of the rear end of the pin, and the pin being curved outwardly at its rear end between the pin-bar and the coil, substantially as set forth.

In witness whereof I have hereunto signed my name in the presence of two witnesses.

CHAS. L. MISSEL.

Witnesses:

HORATIO NELSON,
TIMOTHY J. KELLY.