(No Model.)

H. M. PAINE.

SAFETY PIN.

No. 256,917. Patented Apr. 25, 1882.

Fig. 1.

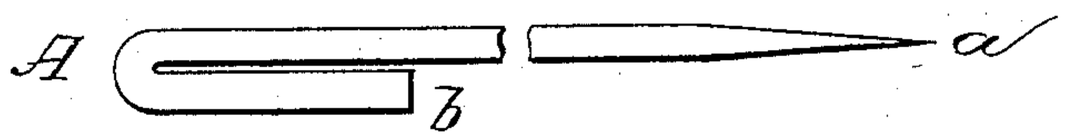


Fig. 2.

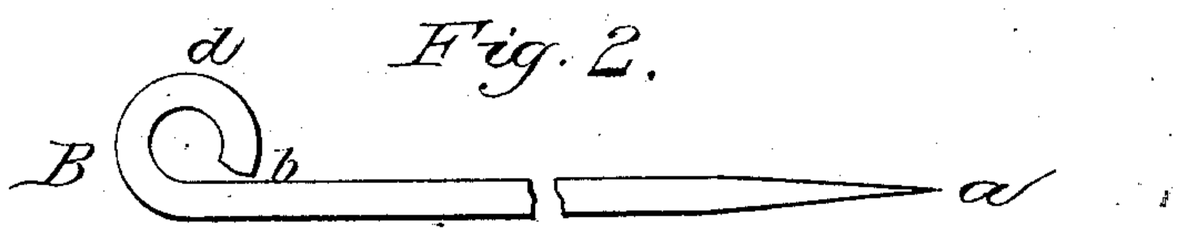


Fig. 3.

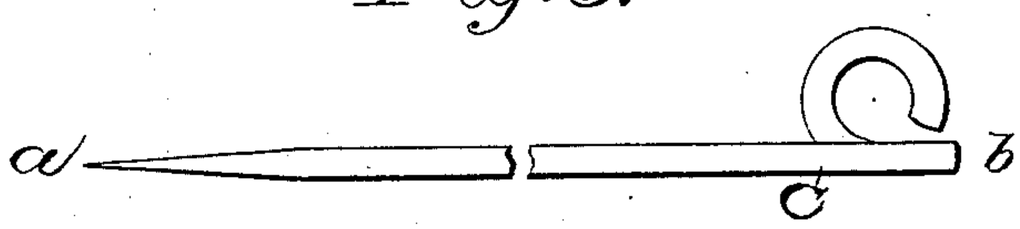


Fig. 4.

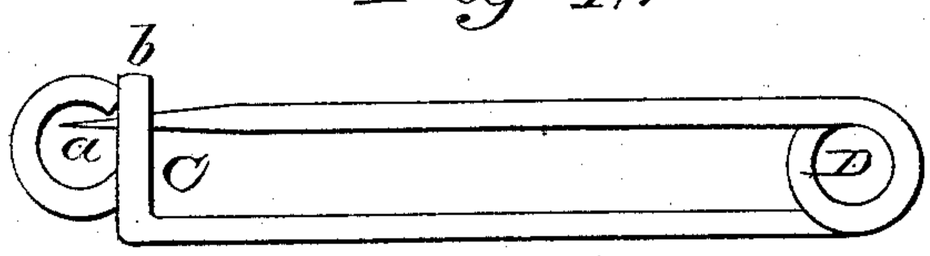
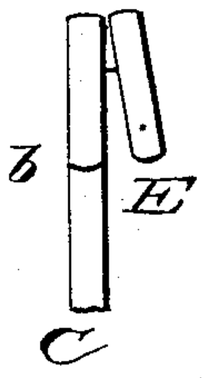


Fig. 5.



Witnesses:
W. H. D. Crane.
C. C. Merrick

Inventor:
H. M. Paine,
per
Thos. L. Crane Atty

UNITED STATES PATENT OFFICE.

HENRY M. PAINE, OF NEWARK, NEW JERSEY, ASSIGNOR TO F. S. PESHINE, OF SAME PLACE.

SAFETY-PIN.

SPECIFICATION forming part of Letters Patent No. 256,917, dated April 25, 1882.

Application filed April 11, 1881. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. PAINE, a citizen of the United States, residing in the city of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Safety-Pins, fully described and represented in the following specification and accompanying drawings, forming part of the same.

My invention relates to an improvement in safety-pins; and it consists in an improved form of shield for the point of the pin, formed in one piece of wire with the pin itself to obviate the cost and objection to a separately made and attached shield.

The form of my shield will be understood by reference to the accompanying drawings, Figure 1 showing a view of a blank having one end pointed, and a portion of the opposite end bent over closely alongside the blank toward the point.

A represents the bending-point, and *b* that portion of the blank to which the bent end extends.

Fig. 2 shows the pin at the completion of the next stage of formation, the drawing showing a single coil, B, attached to one end of the blank, but the coil being in reality double, as it is formed of the parallel parts of the wire. (Shown in Fig. 1.) These two parallel coils are subsequently separated at *d* to form a shield by admitting the point *a* between them, and the stem of the blank adjacent to the point *b* is therefore bent in such a manner as to form a lock to retain the point between the coils. I have devised several modes of doing this, one of which is shown in Figs. 3 and 4, the former showing the two coils bent sidewise at *b* one hundred and eighty degrees from the position shown in Fig. 2, and Fig. 4 showing the stem bent at right angles to that portion of the blank adjacent to *b* and lettered C in Fig. 3. The bend at *b* is made open enough to permit the point to enter it freely from the open side, and the coils also being separated, as shown in Fig. 5, the point of the pin is adjusted to lie between them as it projects slightly through the bent portion lettered *c* in Fig. 5, as indicated at *a*. This adjustment is secured in bending the usual spring-coil at the opposite end of the safety-pin, whereby the point is afforded the requisite elasticity to stay securely in its lock and shield.

From the above it will be seen that the lock may be secured by making an open loop or bend in the wire adjacent to the shield, as in certain other safety-pins, and that the shield consists of two parallel coils of wire formed in one piece with the remainder of the pin, and affording, by their projection beyond the point of the pin and above it in a circular arc an ample guard against any contact with the point.

I therefore claim my invention in the following manner:

1. A shield for wire safety-pins, consisting of two nearly parallel coils of wire, one of them continuous with the body of the pin, the said coils being separated sufficiently to admit the point of the pin between them and being combined with a lock or loop of the wire forming the pin, substantially as and for the purpose set forth.

2. The safety-pin provided with the shield formed of two coils of wire separated to receive the point between them, and provided with a lock or open loop bent out of the same piece of wire as the pin and the shield and adapted to guide the point of the pin into the space between the coils, substantially as herein set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY M. PAINE.

Witnesses:

WM. O. SMITH,

LOTTIE STEPHENS.