

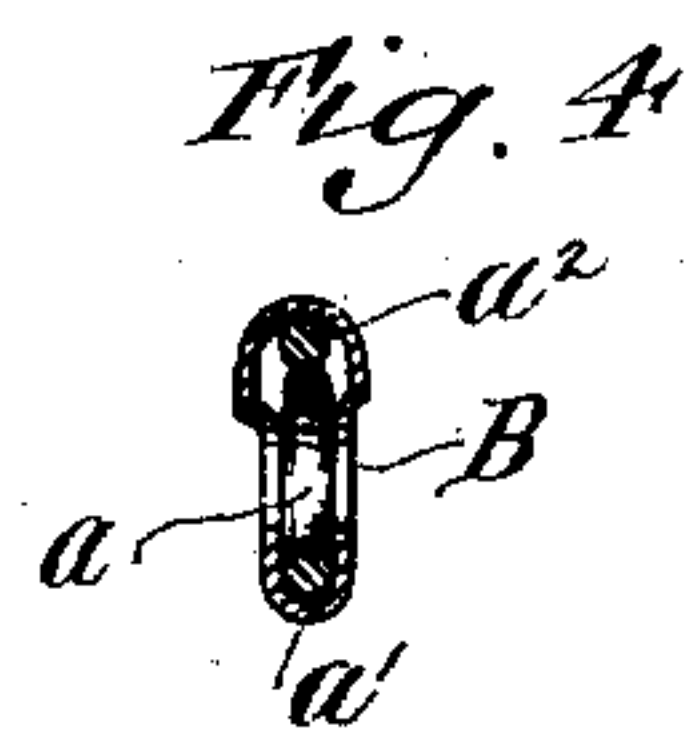
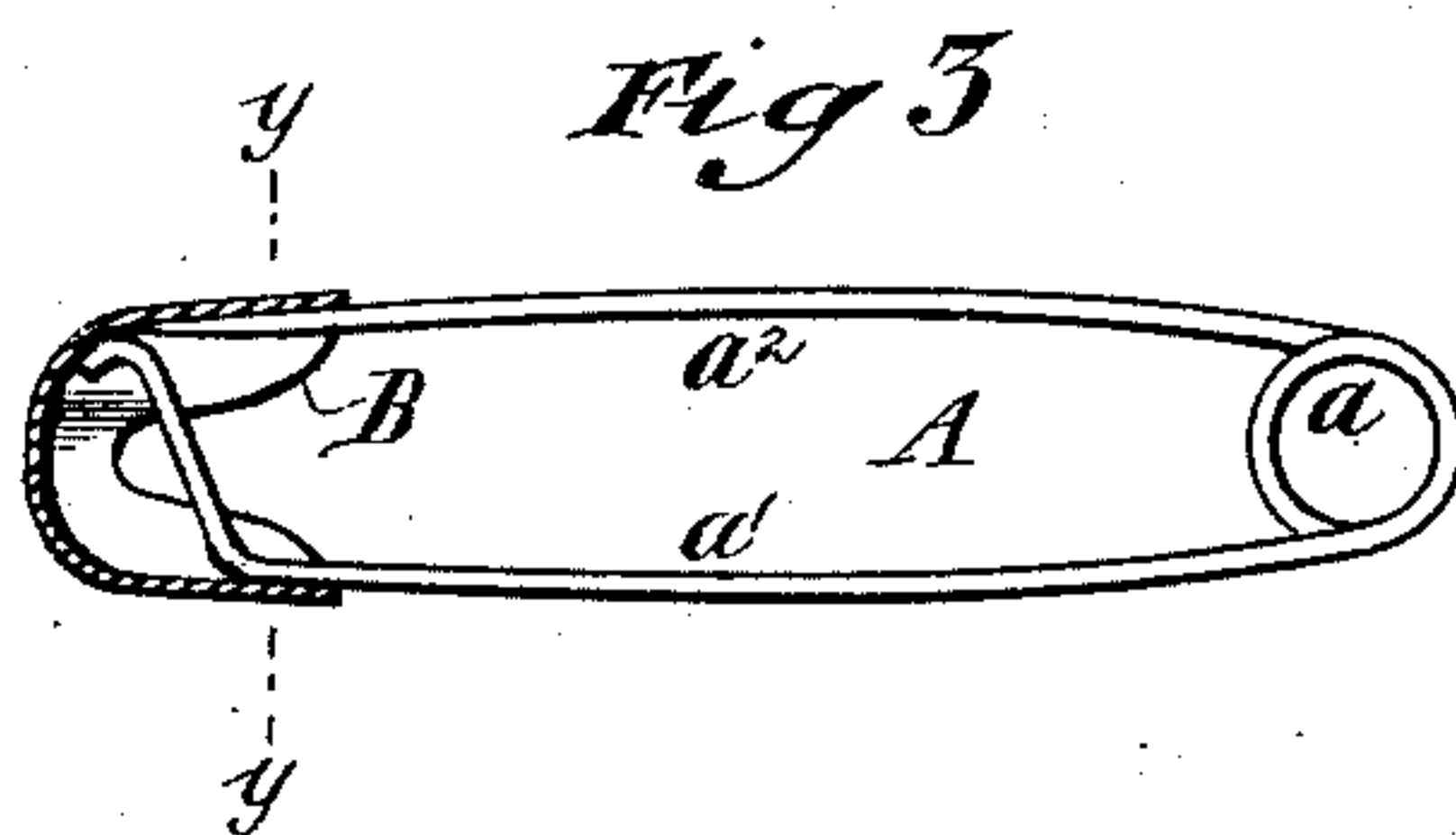
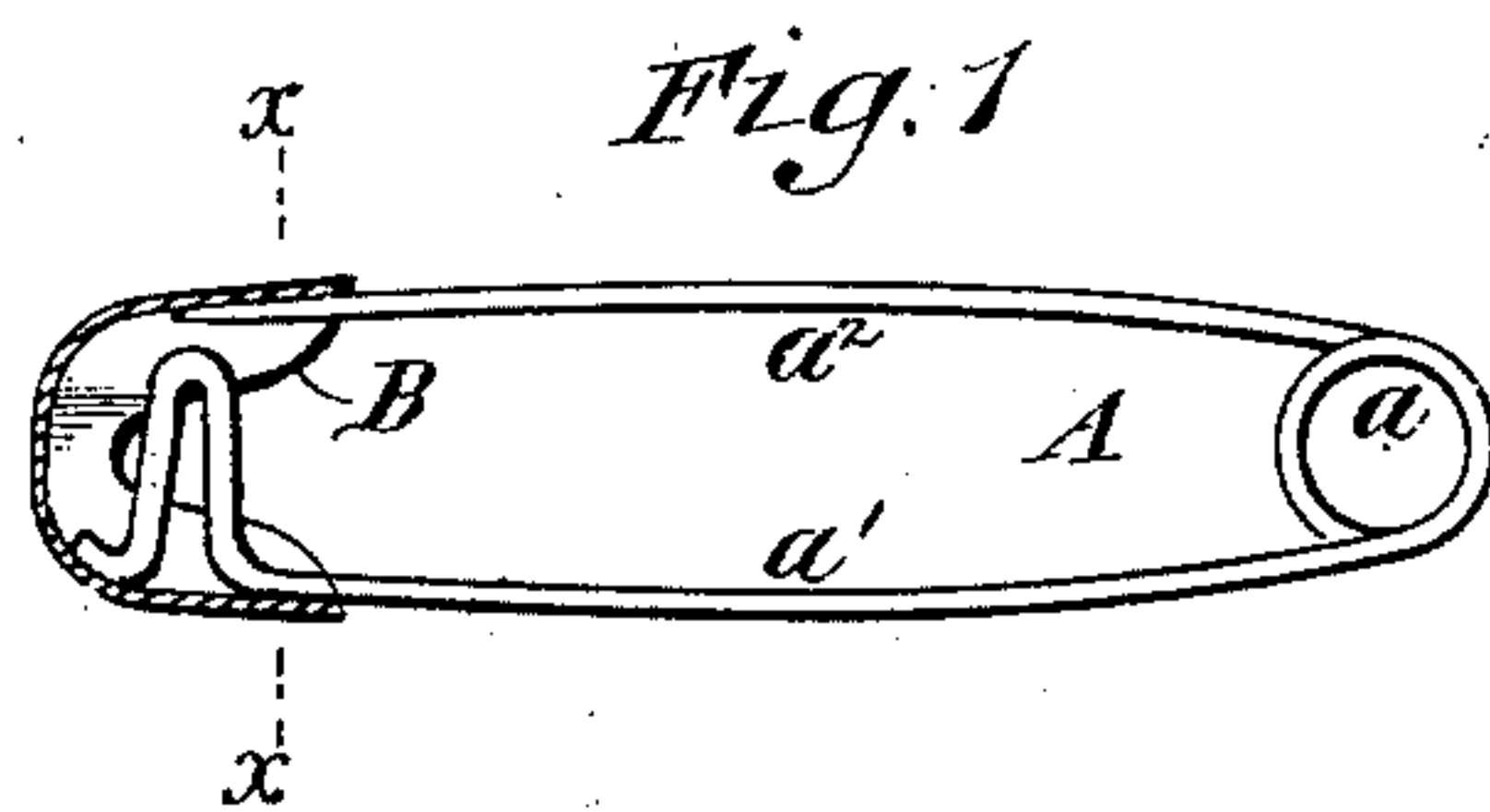
(No Model.)

W. F. HYATT.

SAFETY PIN.

No. 375,873.

Patented Jan. 3, 1888.



Witnesses  
James D. Griswold  
Jas R. Bowen

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# UNITED STATES PATENT OFFICE.

WILLIAM F. HYATT, OF BROOKLYN, NEW YORK.

## SAFETY-PIN.

SPECIFICATION forming part of Letters Patent No. 375,873, dated January 3, 1888.

Application filed June 8, 1886. Serial No. 204,455. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM F. HYATT, of Brooklyn, in Kings county and State of New York, have invented a certain new and useful Improvement in Safety-Pins, of which the following is a specification.

I will describe a safety-pin embodying my improvement, and then point out the various features in a claim.

10 In the accompanying drawings, Figure 1 is a sectional side view of a safety-pin embodying my improvement. Fig. 2 is a transverse section of the same, taken at the plane of the dotted line  $x x$ , Fig. 1. Fig. 3 is a sectional side  
15 view of a safety-pin of somewhat modified form embodying my improvement. Fig. 4 is a transverse section of the same, taken at the plane of the dotted line  $y y$ , Fig. 3.

20 Similar letters of reference designate corresponding parts in all the figures.

A designates the pin. At about the middle of its length it is bent around into the form of a coil,  $a$ , forming the spring, and its ends extend from this coil, so as to constitute two  
25 limbs or portions,  $a'$   $a^2$ . The end of the limb  $a^2$  is sharpened, so as to adapt it to penetrate the fabric with which the pin is to be used.

30 In Figs. 1 and 2 the end portion of the unsharpened limb  $a'$  is bent obliquely at an angle to the main portion of this limb, and then at the extremity bent slightly backward.

B designates a shield, which is approximately of U shape and made of sheet metal. It is at one side made narrow enough to tightly  
35 fit upon the unsharpened limb of the pin at the point where the end portion is bent obliquely from the main portion, and it may be secured in position by means of solder. The obliquely-bent end portion of the unsharpened  
40 limb of the pin extends over into the opposite portion of the shield, and preferably will have a bearing there, as this bearing will make the attachment of the shield to the unsharpened limb of the pin more secure by lessening the  
45 possibility of turning or twisting the shield upon the same. The portion of the shield into which the extremity of the unsharpened limb

of the pin thus extends is considerably wider than the diameter of the pin. Consequently the obliquely-bent end portion of the unsharpened limb of the pin will form a guide, whereby the sharpened limb of the pin will be directed into the portion of the shield which is adjacent to it.

The sharpened end of the pin is long enough to come in contact with that part of the obliquely-bent end portion of the unsharpened end of the pin which extends between the opposite parallel portions of the shield; but it is not long enough to reach the extremity of the  
60 said obliquely-bent end portion of the unsharpened limb. Consequently, after the sharpened limb has entered the shield, it will pass beyond the unsharpened limb of the pin.

In the pin shown in Figs. 3 and 4 the parts  
65 are of substantially the same construction, except that the obliquely-bent end portion of the unsharpened limb of the pin does not extend far enough into the portion of the shield, whose office it is to receive the sharpened  
70 limb of the pin, so as to have a bearing therein; but in lieu thereof the extremity of the unsharpened limb of the pin is bent back into the narrow portion of the shield to which this limb is secured.

75 The method of forming a guide according to my present improvement is a very simple and desirable one.

What I claim as my improvement, and desire to secure by Letters Patent, is—

80 The combination of a U-shaped shield and a pin comprising two limbs, one of which is sharpened and the other of which is secured to the shield, and has a portion forming a guide which is bent away obliquely from said  
85 last-named limb into that portion of the shield which is intended to receive the sharpened limb, said guide having a bearing in the shield in at least two places.

WM. F. HYATT.

Witnesses:

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