

No. 644,902.

Patented Mar. 6, 1900.

G. P. FARMER.

SAFETY PIN.

(Application filed Aug. 12, 1899.)

(No Model.)

Fig. 1.

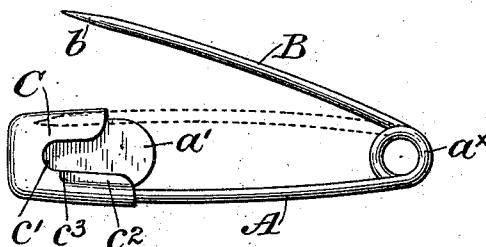


Fig. 2.

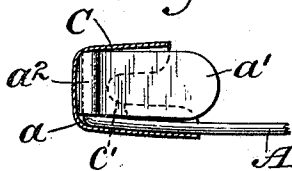


Fig. 3.

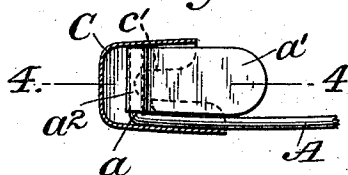


Fig. 4.

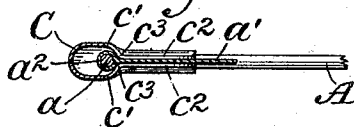
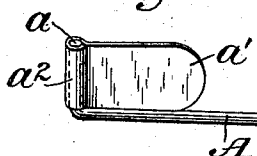


Fig. 5.



Attest:

A. S. Jesbera.  
Henrietta Lyon.

Inventor:

George P. Farmer.  
by Redding, Kidd & Peckley  
Attys.

# UNITED STATES PATENT OFFICE.

GEORGE P. FARMER, OF MONTCLAIR, NEW JERSEY, ASSIGNOR TO THE CONSOLIDATED SAFETY PIN COMPANY, OF BLOOMFIELD, NEW JERSEY.

## SAFETY-PIN.

SPECIFICATION forming part of Letters Patent No. 644,902, dated March 6, 1900.

Application filed August 12, 1899. Serial No. 726,960. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE P. FARMER, a citizen of the United States, residing in Montclair, in the county of Essex, State of New Jersey, have invented certain new and useful Improvements in Safety-Pins, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to safety-pins in which the hood or shield which engages the point of the movable member of the pin is arranged to slide longitudinally upon the back member for the purpose of locking or unlocking the point to prevent or permit its disengagement from the hood or shield.

The object of this invention is to improve the construction of such safety-pins, and particularly to make it possible to reduce the thickness of the hood or shield, so that it shall not be any more bulky or cumbersome than the usual duplex safety-pin, in which the pin-point can be engaged with the hood or shield from either side.

The invention will be fully described hereinafter with reference to the accompanying drawings, in which a convenient and practical embodiment of the invention is illustrated, and in which—

Figure 1 is a view in side elevation of a safety-pin to which the invention is applied, the pin being shown open, but with the hood or shield in the locking position. Fig. 2 is a detail view with the hood or shield in section and in its locking position. Fig. 3 is a view similar to Fig. 2, but with the hood or shield in its unlocking position. Fig. 4 is a section on the plane indicated by the line 4 4 of Fig. 3, and Fig. 5 is a detail view in perspective with the hood or shield removed.

The safety-pin to which the invention is applied may be and is represented in the drawings as of substantially ordinary form, having a back member A, which carries the hood or shield, and a pointed or movable member B, the two being preferably united by a spring-coil  $a^x$ . The back member A is of the same length, as compared with the pointed or movable member B, as in the ordinary safety-pin, and has its end  $a$  bent at an angle with the main portion in the plane of the pin. A piece of sheet metal  $a'$ , which

may be very thin and light, since it is subjected to very little lateral pressure, serving merely as a guide to direct the point of the pin into place within the hood or shield and as a partition or stop to prevent the passage of the pin-point through from side to side of the hood or shield, is secured to the back member A in any convenient manner, as by having its end bent around the portion  $a$  of said back member A, as at  $a^2$ . The hood or shield C is substantially of ordinary form and is arranged to slide longitudinally upon the end of the back member A to permit or prevent the disengagement of the pin-point  $b$  therefrom. The side walls of the hood or shield are provided with apertures  $c'$ , so that when the hood or shield is pushed back, as represented in Figs. 3 and 4, the pin-point  $b$  may be introduced into the hood or shield from either side; but when the hood or shield is pushed forward, as shown in Figs. 1 and 2, the pin-point will be engaged thereby and locked against disengagement, as indicated by the dotted line in Fig. 1. The side walls of the hood or shield are struck in, as at  $c^2$ , to embrace the main portion of the back member A, forming shoulders  $c^3$  to limit the backward movement of the hood or shield by engagement with the bent portion  $a$  of said back member A or with the portion  $a^2$  of the partition or stop-plate  $a'$ , which is bent around said portion  $a$  of the back member A. As will be seen by examination of the drawings, the hood or shield C covers or embraces the bent portion  $a$  of the back member A and the partition or stop-plate  $a'$ .

It will be understood that the invention is not limited to the precise form and construction of parts shown and described herein.

I claim as my invention—

1. The combination with the back member of a safety-pin having a portion bent at an angle with the main portion, of a partition or stop-plate secured to said bent portion and a hood or shield embracing the end of said back member and said partition or stop-plate and movable longitudinally in one direction to admit the point of the pin and in the opposite direction to prevent its disengagement, said hood or shield being bent in to embrace the straight portion of said back member and to form shoulders to engage the bent portion of

said back member and limit the longitudinal movement of the hood or shield, substantially as shown and described.

2. The combination with the back member  
; of a safety-pin having a portion bent at an  
angle with the main portion, of a partition or  
stop-plate bent around the bent portion of the  
back member and a hood or shield embracing  
the end of said back member and said parti-  
10 tion or stop-plate and movable longitudinally  
in one direction to admit the point of the pin  
and in the opposite direction to prevent its

disengagement, said hood or shield being bent  
in to embrace a straight portion of said back  
member and to form shoulders to engage the 15  
bent portion of said back member and limit  
the longitudinal movement of the hood or  
shield, substantially as shown and described.

This specification signed and witnessed this  
27th day of July, A. D. 1899.

GEORGE P. FARMER.

In presence of—

ANTHONY N. JESBERA,  
W. B. GREELEY.