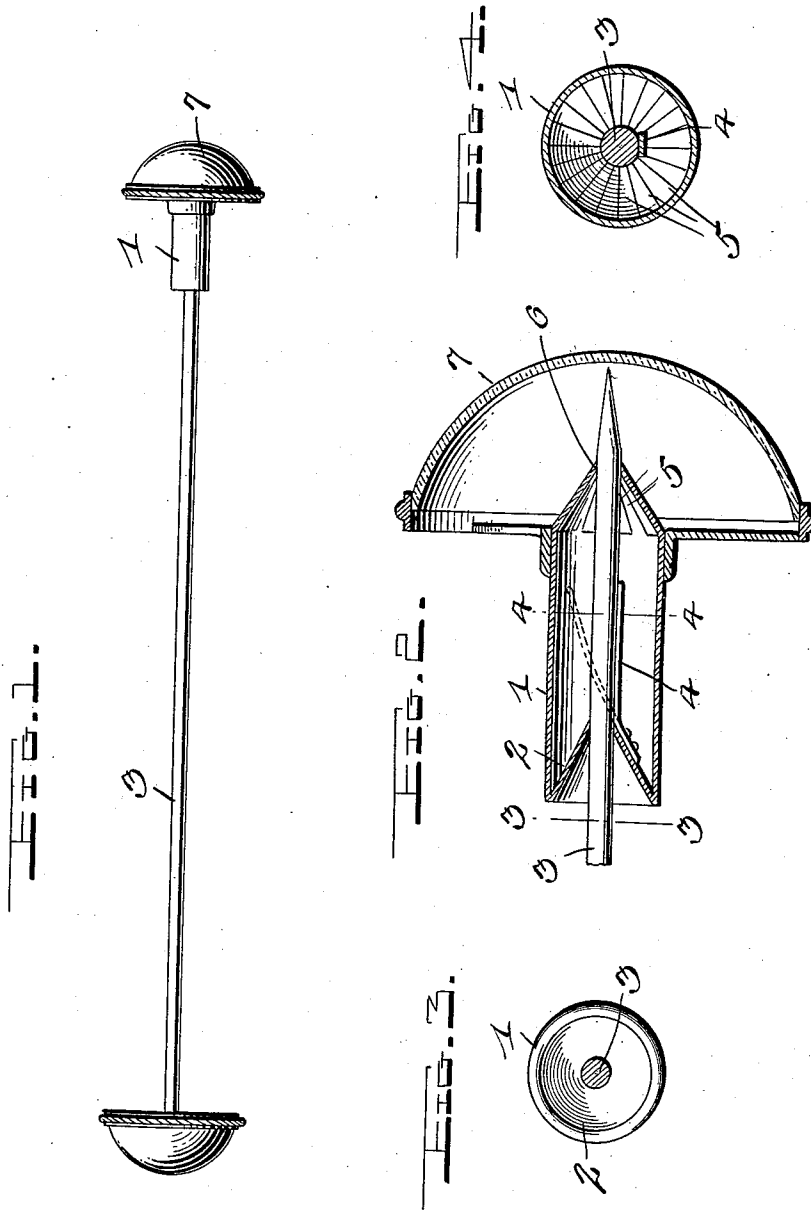


J. H. EATON.
HAT PIN PROTECTOR.
APPLICATION FILED OCT. 9, 1912.

1,065,670.

Patented June 24, 1913.



Witnesses

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JOSEPH HORACE EATON, OF BORDENTOWN, NEW JERSEY.

HAT-PIN PROTECTOR.

1,065,670.

Specification of Letters Patent.

Patented June 24, 1913.

Application filed October 9, 1912. Serial No. 724,890.

To all whom it may concern:

Be it known that I, JOSEPH HORACE EATON, a citizen of the United States, residing at Bordentown, in the county of Burlington and State of New Jersey, have invented certain new and useful Improvements in Hat-Pin Protectors, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in hat pin point protectors.

The object of the invention is to provide a device of this character that can be quickly and easily placed upon the pointed end of a pin to prevent pedestrians from contacting with the same and being injured.

Another object of the invention is to provide a hat pin point guard that will prevent the pin from becoming accidentally displaced relative to a hat.

A further object of the invention is to provide a device of this character which will possess advantages in points of efficiency and durability, is inexpensive to manufacture and at the same time is simple in construction and operation.

With the above and other objects in view, the invention consists in the novel features of construction and the combination and arrangement of parts hereinafter more fully described, pointed out in the claim and shown in the accompanying drawings in which,

Figure 1 is a side elevation of a hat pin showing the application of my improved point protector. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a sectional view on the line 3—3 of Fig. 2. Fig. 4 is a sectional view on the line 4—4 of Fig. 2.

Referring more particularly to the drawings, 1 indicates the cylindrical body of the device, one end of which is provided with the flange 2 which is turned, having an opening centrally therein forming a perforated conical member which guides the point of the pin 3 into the body. Secured to the under side of the inclined wall of the flange 2 is a spring 4 which, by the manner of securing the spring to the inclined wall of the flange 2 extends the spring beyond the center of the body so that when the point of the pin 3 is inserted into the body, the spring will frictionally engage the pin point and the tension of the spring forcing the pin against the inner sharpened

edge of the flange to prevent the removal of the body until withdrawal force is applied.

The end of the body opposite the flange 2 is provided with a plurality of slits which form a series of tongues 5 which, after the spring 4 has been secured to its position, are bent inwardly toward the center of the body forming a central opening 6, through which the point of the pin 3 extends and is adapted to be frictionally engaged by the tongues 5 which will help to secure the body to the point of the pin. As stated above, it will be apparent that the tension of the spring 4 will force the pin point into slight engagement with the sharpened edge of the flange 2; which together with the frictional engagement of the spring 4 will help to securely hold the body 1 upon the pin point. It will be also apparent that the tongues 5, when brought together to form openings 6 provide a suitable guide for the extreme end of the pin.

After the spring 4 has been placed in position and the tongues 5 bent inwardly a suitable head 7 may be secured to the end of the body 1 so that the extreme point of the pin 3 will be entirely hidden from view. In applying this head 7 to the end of the body, it will be understood that a plain ball of any suitable metal may be used or it may be of a design similar to the stationary head which is secured to the other end of the pin, thereby giving the appearance of two hat pins arranged in the hat upon either side thereof.

From the above description taken in connection with the accompanying drawings, it will be readily apparent that I have provided a simple and durable hat pin point protector which can be quickly and easily applied and which will prevent pedestrians from coming in contact with the same and being injured. It will also be apparent that the device is simple in construction and can be manufactured at a comparatively low cost.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope of the appended claim.

What I claim is:—

In a device of the character described, the

combination of a cylindrical body having a flange formed at one end which is inturned and provided with an opening centrally therein to form a perforated conical member, a flat spring having one of its ends secured to the inner inclined wall of the flange contiguous to the opening therethrough, whereby its inner end will normally extend obliquely across the opening and adapted to frictionally engage a pin point inserted within the body, the inner end of said spring being free, the tension of said spring being adapted to force the pin against the inner sharpened edge of the flange to prevent the removal until withdrawal force is applied, the other end of said body being provided with a plurality of slits the parts intermediate said slits being bent inwardly to form a

series of converging pin gripping tongues arranged to provide a centrally arranged opening to receive the pointed end of the pin, the tongues serving to direct the point of the pin toward said opening, a head secured to the end of the body opposite the inturned flange to entirely conceal the point of the pin when disposed within the body and the wall of the head being spaced from said opening and serving to limit the inward movement of the pin.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JOSEPH HORACE EATON.

Witnesses:

J. HOWELL JOHNSON,
H. W. REYBOLD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
