

I. A. SOULE.
HAT PIN POINT PROTECTOR.
APPLICATION FILED JUNE 1, 1911.

1,063,840.

Patented June 3, 1913.

FIG. 1

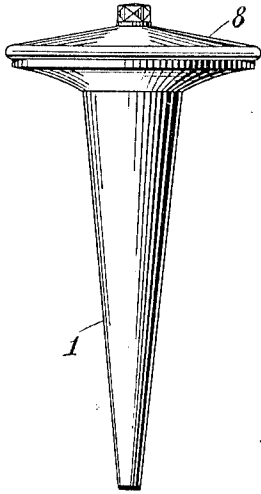


FIG. 2

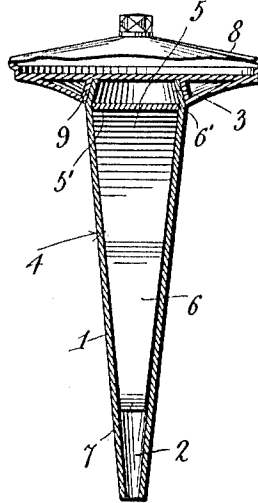


FIG. 4

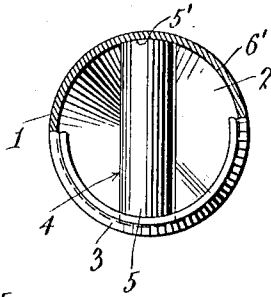


FIG. 3

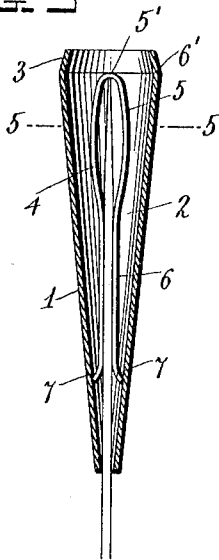


FIG. 5

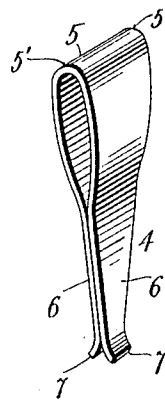
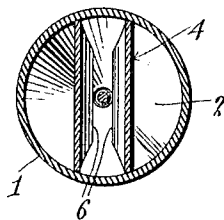


FIG. 5



Witnesses

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UNITED STATES PATENT OFFICE.

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HAT-PIN-POINT PROTECTOR.

1,063,840.

Specification of Letters Patent.

Patented June 3, 1913.

Application filed June 1, 1911. Serial No. 630,604.

To all whom it may concern:

Be it known that I, IDA A. SOULE, a citizen of the United States, residing at San Francisco, in the county of San Francisco, State of California, have invented certain new and useful Improvements in Hat-Pin-Point Protectors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a device to be placed upon the point of a hat pin, after the same has been passed through the crown of a hat, and has for its object to construct a device of this character which may be readily attached to and detached from the pin point.

A further object of the invention is to construct a device of this character of few parts, thereby producing an article that may be manufactured cheaply.

A still further object of the invention is to manufacture devices of this character which are ornamental, and not only prevent the loss of the pin, but will prevent injury of persons coming in contact with the same.

In the drawing:—Figure 1 is a side elevation of the device. Fig. 2 is a longitudinal sectional view. Fig. 3 is a similar view, showing the device in place upon a portion of a hat pin. Fig. 4 is a top plan view with the cap removed. Fig. 5 is a sectional view on line 5—5 of Fig. 3. Fig. 6 is a detail perspective view of the plate spring.

Referring to the drawing, the numeral 1 designates a casing, said casing being formed from metal, and being tapered throughout its length, thereby producing a bore 2 having tapered walls. The casing 1 is open at both ends, one of said ends being beveled as at 3 of the drawing, the purpose of which will be hereinafter described. Adapted to be placed within the casing 1 is a plate spring 4, said spring being bent so as to form a looped head 5, and has its remaining portions 6 arranged in parallel relation and bowed toward each other and in contacting relation. The extreme ends 7 of the portions 6 are flared outwardly, and out of contact and assume a position in one end of the casing inward of its end. The plate spring 4 is also tapered to correspond to the tapered formation of the bore 2, as clearly shown in Fig. 2 of the drawing, so that it

may fit within the bore, yet permit the arm portions 6 to be sprung away from each other sufficiently to allow the end of the pin to be inserted and clasped therebetween. A cap 8, having an inner beveled surface 9 is placed upon the casing so as the beveled face thereof will engage the beveled edge of the casing 1, and may be either soldered or held in position upon the casing 1 by friction. These caps may be ornamented to form an attractive device.

By forming the spring 4 with a looped head 5, said spring, due to the tapered formation of the bore 2 is prevented from downward movement within the casing to an undesired extent and from upward movement by having its upper edges 5' seated in the angle 6'. The resilient nature of the spring 4 and its tapered formation will at all times hold the same within the casing, thereby preventing any rattling of the parts.

The beveled edge 3 is formed with the casing 1 by a suitable die, thereby providing means for preventing the upward movement of the spring 4, due to the fact, that the opposite edges of the looped head engages in the angles 6' formed by said beveled edge.

In assembling a device the spring 4 is inserted into the bore 2 until the head 5 engages the upper end thereof in spaced relation to the upper terminal. The upper end of the casing is then crimped inwardly to produce the beveled portion 3 which engages the head of the said spring and prevents its displacement.

From the foregoing description it will be seen that I have produced a device of this character which is formed in a simple manner and comprises three parts, said parts being easily assembled, and the casing and cap ornamented in any manner, and when in position not only adds to the attractiveness, but prevents loss of the pin, and also protects the person accidentally coming in contact with the same.

The operation of the device is as follows: After the hat pin has been inserted through the crown of the hat, the device is forced upon the pointed end thereof, until said point has contacted with the inner side of the loop, and the plate spring has engaged the pin at the point where the portions 6 normally contact, thereby being firmly secured to the pin.

What is claimed, is:—

As a new article of manufacture, a pin protector comprising a tapered casing open at both ends, one of said ends being inclined inward, the casing providing a tapered bore extending substantially the length thereof, a cap for one end of the casing, a tapered spring mounted within the bore and prevented from moving longitudinally in one direction by the inwardly inclined end of the casing and in the other direction by the tapered walls of the bore, said spring being so bent as to provide a

looped member, the remaining portions of the spring being bowed toward each other to normally contact, the ends of the spring being flared outwardly and the contacting portions of the spring being moved away from each other by the action of the pin pushed therebetween.

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

IDA A. SOULE.

Witnesses:

J. H. STIRLING,
RAYMOND PERRY.

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