M. H. MILLER.

HAT PIN POINT PROTECTOR.

APPLICATION FILED FEB. 23, 1912.

1,048,568. Patented Dec. 31, 1912.

Fig. 1.

Fig. 2.

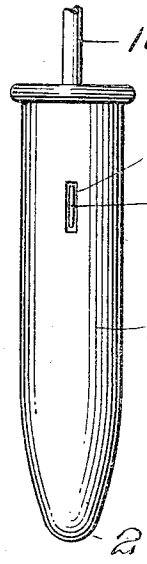


Fig. 4.

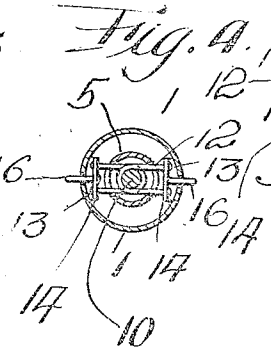
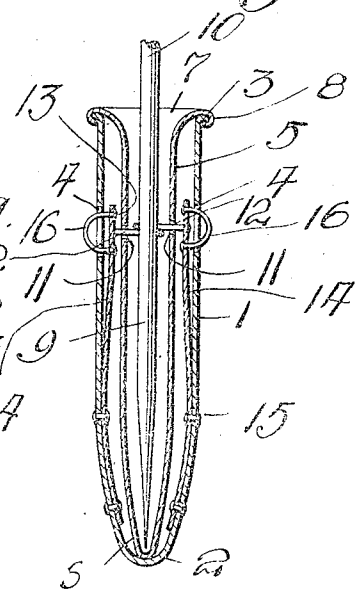


Fig. 3



WITNESSES

Samuel Payne

J. P. Appleman

INVENTOR

M. H. Miller.

BY A. C. Ewert & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

MARY H. MILLER, OF BELLE VERNON, PENNSYLVANIA.

HAT-PIN-POINT PROTECTOR.

1,048,568. Specification of Letters Patent. Patented Dec. 31, 1912.

Application filed February 23, 1912. Serial No. 679,477.

To all whom it may concern:

Be it known that I, MARY H. MILLER, a citizen of the United States of America, residing at Belle Vernon, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Hat-Pin-Point Protectors, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a hat pin point protector, and the objects of my invention are to provide a novel device that can be easily and quickly mounted upon the pointed end of a hat pin to prevent pedestrians or the occupants of a crowded street car or elevator from being injured by the pointed end of a hat pin, and to provide a device of the above type that will serve as a lock to prevent accidental displacement of a hat pin relatively to a hat.

Other objects of my invention are to provide a pin protector that can be used in connection with various types of pins, the protector consisting of comparatively few parts, and to provide a device that is inexpensive to manufacture, durable and susceptible to any desired ornamentation.

These and such other objects as may hereinafter appear are attained by a mechanical construction that will presently be described in detail and then claimed.

Reference will now be had to the drawing, wherein:—

Figure 1 is a perspective view of the device as applied to a hat pin, Fig. 2 is an enlarged side elevation of the device, Fig. 3 is a horizontal sectional view of the same, and Fig. 4 is an enlarged longitudinal sectional view of the device.

A device in accordance with this invention comprises an outer cartridge-shaped shell 1 having a closed pointed end or nose 2 with the edges of the shell at the open end thereof flanged, as at 3. The side walls of the shell 1 have diametrically opposed longitudinal slots 4, adjacent to the open end thereof.

Mounted within the outer shell 1 is an inner cylindrical shell 5 having a closed end 6 and a flared open end 7, said flared open end having the edges thereof reamed, as at 8 upon the flanged end 3 of the outer shell 1. The flared end 7 of the inner shell 5 provides a funnel-shaped mouth piece or entrance for the pointed end 9 of a hat pin 10.

The inner shell 5 opposite the longitudinal slots 4 is provided with diametrically opposed transverse slots 11 for gripping yokes 12 having the inner ends thereof frictionally engaging the pointed end 9 of the pin. The gripping yokes 12 are laterally disposed and the outer ends thereof are riveted or otherwise connected, as at 13 to the ends of flat springs 14 that are riveted or otherwise connected, as at 15 to the outer shell 1, adjacent to the closed end or nose thereof. The flat springs 14 adjacent to the lateral yokes 12 have loop handles or buttons 16 extending through the slots 4. By pressing inwardly upon the handles 16 the flat springs 14 are placed under tension and the lateral yokes 12 release the pointed end 9 of the pin 10, whereby the device can be removed from the pointed end of the pin or the pointed end of the pin removed from the device. To insert the pin within the device, it is necessary that the handles or buttons 16 be pressed inwardly to open the closed ends of the lateral yokes 12 for the insertion of the pointed end of the pin.

It is obvious that the outer shell 1 can be suitably ornamented to harmonize with the ornamented head of the pin 10.

I would have it understood that the invention is susceptible to such modifications and variations as fall within the scope of the appended claims.

What I claim is:—

1. A hat pin point protector comprising an outer shell having a closed outer end and an open inner end, an inner shell having its inner end flared and overlapping and connected to the inner end of the outer shell, said inner shell having its outer end closed and abutting against the closed end of the outer shell, a pair of oppositely disposed flat springs interposed between said shells and having one end thereof fixed to the outer shell, said outer shell in proximity to its inner end formed with longitudinal openings, said inner shell in proximity to its inner end provided with lateral openings, handle pieces fixed to the free ends of said springs and extending through said lateral openings, and overlapping lateral disposed yokes extending through said horizontal openings and fixed to the free ends of said springs and capable of frictionally gripping a pin for maintaining it within the inner shell.

2. A hat pin point protector comprising an outer shell having a closed outer end and

an open inner end, an inner shell having its inner end flared and connected to the inner end of the outer shell, the other end of said inner shell being closed, said outer shell in proximity to its inner end formed with diametrically opposed rectangular longitudinally extending openings, said inner shell in proximity to its inner end provided with openings disposed at right angles with respect to the openings in the outer shell, a pair of oppositely disposed and longitudinally extending flat springs interposed between said shells and each having one end fixed to the outer shell near the outer end thereof, oppositely disposed handle pieces fixed to the free ends of said springs and extending through said longitudinal openings, and oppositely extending overlapping lateral disposed yokes extending through the openings of the inner shell and having their arms fixed to the free ends of said springs and capable of frictionally gripping a pin for maintaining it within the inner shell, said handle pieces extending in an opposite direction with respect to said yokes.

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

MARY H. MILLER.

Witnesses:
EDMOND JEFFRIES,
ELIZABETH C. JEFFRIES.