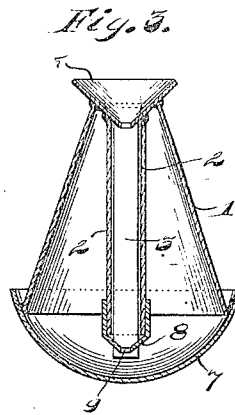
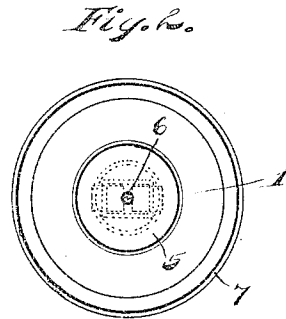
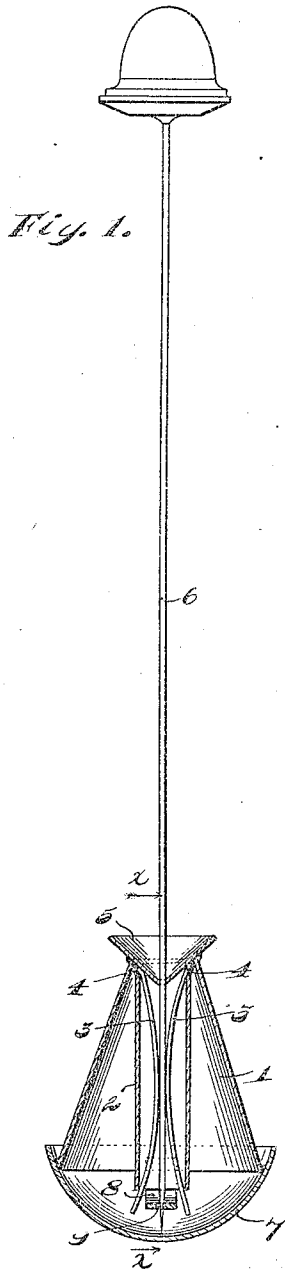


J. J. VAN VLIET.
HAT PIN GUARD.
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1,041,381.

Patented Oct. 15, 1912.



Witnesses:

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Inventor.

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UNITED STATES PATENT OFFICE.

JOHN J. VAN VLIET, OF CHICAGO, ILLINOIS.

HAT-PIN GUARD.

1,041,331.

Specification of Letters Patent.

Patented Oct. 15, 1912.

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To all whom it may concern:

Be it known that I, JOHN J. VAN VLIET, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Hat-Pin Guards, of which the following is a specification.

My invention relates to improvements in hat pin point guards and has for its object the production of a device of this character which may be readily and quickly arranged in position over the point of a hat pin; one which may be readily and easily detached when desired; and one which shall be of economical construction and of great efficiency in operation.

Other objects will appear hereinafter.

With these objects in view my invention consists in a hat pin guard characterized as above mentioned and in certain details of construction and arrangements of parts all as will be hereinafter more fully described and particularly pointed out in the appended claim.

My invention will be best understood by reference to the accompanying drawings forming a part of this specification and in which,

Figure 1 is a side elevation of an ordinary hat pin to which is applied a guard embodying my invention, the guard being shown in section, Fig. 2 is an end elevation of the device, the pin being shown in section therein, and Fig. 3 is a section taken on line *x-x* of Fig. 1.

The preferred form of my construction as illustrated in the drawing comprises a conical casing 1 formed of any suitable material, sheet metal being preferably used. Arranged axially within the casing 1 is an elongated tube 2 rectangular in cross section, one end of said tube being secured preferably by soldering to the contracted end of said casing. Arranged within the tube 2 are normally curved leaf springs 3, said springs being so arranged that the convex sides thereof are adapted normally to contact with each other substantially medially of the ends of said springs. The ends 4 of said springs 3 are secured preferably by soldering to the connected ends of the members 1 and 2, the opposite ends of said springs which project beyond the opposite extremity of said tube 2 being free.

Arranged at the contracted end of the

casing 1 and the corresponding end of the tube 2 is a conical or flaring mouth piece 5 through which the point of the pin 6 is inserted in the arrangement of the device thereon, the provision of a mouth piece of this construction evidently facilitating the insertion of the pin point centrally into the tube 2.

Arranged at the free end of the casing 1 is a substantially hemi-spherical head piece 7 secured preferably by soldering thereto. The head piece 7, when the device is in operation, serves as a stop for the pin point upon insertion of the latter through the tube 2 between the springs 3. In addition to serving in this capacity the head 7 may also serve as an ornament since the same may be of any ornate or fanciful design desired.

Arranged at the inner end of the tube 2 is an angular end piece 8 formed of a strip bent into V-shape and the ends of which are secured to said tube preferably by soldering so that the apex is at right angles to the plane of contact of the springs 3. The central portion of the member 7 is angularly formed as clearly shown in Fig. 3, the sides of this portion converging inwardly so that the line of intersection thereof will be disposed at right angles to the line of contact between the springs 3. With this arrangement it will be seen that upon insertion of the pin point through the mouth piece 5 and between the springs 3, said pin point if not disposed centrally in the tube 2 will contact one of the sides of the end piece 7 which will deflect the same toward the central opening 9 in said end piece and thus maintain the pin point centrally in said tube.

In the employment of the device it will be observed that upon arrangement thereof in operative position upon a pin point the springs 6 will forcibly engage against the sides of the pin point serving to hold the device in position upon the pin by friction, said springs serving to maintain the device thereon against accidental displacement but permitting of removal when drawn outwardly by the hand. When arranged in operative position the device is adapted to effectually guard the point of the pin preventing injury to any one who might otherwise be brought into contact therewith, the device also serving to lock the hat pin in position against removal from the hat and consequent loss.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation or modification without departing from the spirit of my invention. I, therefore, do not wish to be limited to the precise details of construction as set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

A device of the class described, comprising a tube, a conical mouth piece at one end having an opening in its apex co-axial with said tube, a flat strip traversing the opposite end of said tube and secured to the same, said strip being bent into substantially V-shape with its sides converging inwardly

and provided with a perforation in its apex co-axial with said tube and a pair of normally curved leaf springs arranged in said tube with their convex sides contacting, the ends of said springs adjacent said mouth piece being fixed and the opposite ends being free and extending through the spaces between said V-shaped strip and the end of said tube, and the apex of said V-shaped strip being at right angles to the plane of the contact of said springs, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN J. VAN VLIET.

Witnesses:

W. C. SMITH,
JOSHUA R. H. POTTS.