

J. M. CHRITTON.  
HAT PIN FASTENER AND PROTECTOR.  
APPLICATION FILED JUNE 3, 1913.

1,088,967.

Patented Mar. 3, 1914.

*Fig. 1.*

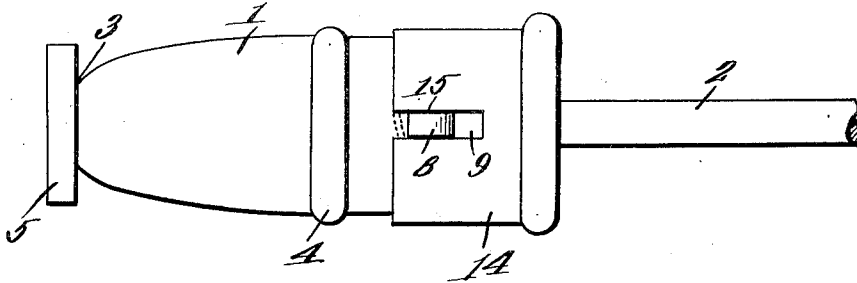


*Fig. 2.*

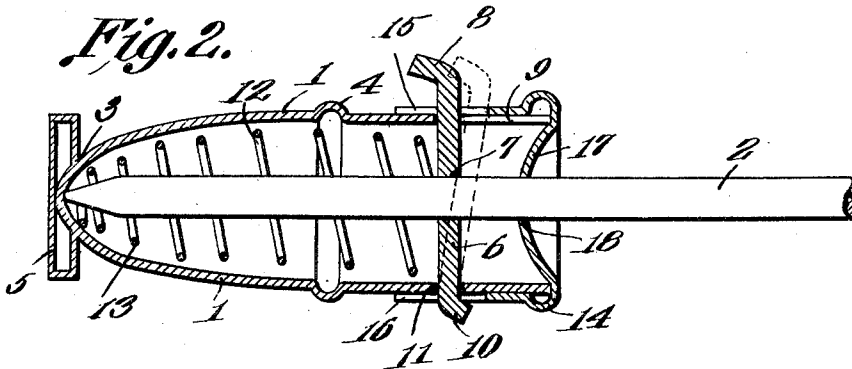
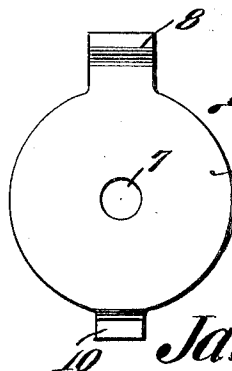


*Fig. 3.*



*Fig. 4.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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HAT-PIN FASTENER AND PROTECTOR.

Specification of Letters Patent.

Patented Mar. 3, 1914.

1,088,967.

Application filed June 3, 1913. Serial No. 771,519.

*To all whom it may concern:*

Be it known that I, JAMES M. CHRITTON, a citizen of the United States, residing at Rocky Ford, in the county of Otero and State of Colorado, have invented a new and useful Hat-Pin Fastener and Protector, of which the following is a specification.

This invention relates to improvements in a device adapted to detachably engage the shank portion of a hat pin or similar structure and will afford adequate means for the protection of the point thereof.

An object of the present invention is to provide a hat pin fastener and point protector which may be easily and readily secured to the shank of a hat pin or scarf pin and will rigidly grip the same, and an outwardly projecting arm which by the pressing thereof releases the device and allows the shank of the pin to be easily withdrawn therefrom.

A further object is to provide a pin receiving casing with a rotatable plate mounted therein and which plate is provided with an aperture extending therethrough adapted to receive the pin therein, the rotating of the plate resulting in the angularly disposing of the side walls of the aperture which therefore engage the shank of the pin and prevent the accidental withdrawal thereof.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof the preferable form of my invention is illustrated in which:—

Figure 1 is a side view in elevation of my improved device secured to the shank of a pin. Fig. 2 is a longitudinal cross sectional view thereof illustrating the internal construction of the various coacting parts. Figs. 3 and 4 are views showing in detail the construction of the locking plate by means of which a pin is detachably and at the same time rigidly secured to the device.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 is a casing of sufficient size to receive the shank 2 of a pin or similar structure therein. The casing 1 terminates in the restricted end portion 3 slightly pointed so that when the shank of the pin is fully inserted within the casing as illustrated in Fig. 3 the extremity of the pin will come in contact with the central portion of the end of the casing 3 and held in proper alinement accordingly.

The casing 1 is provided with an outstanding ridge 4 intermediate of its ends, the purpose of which is for ornamentation as well as to lend strength and rigidity to the entire structure. Rigidly secured to the pointed end 3 of the casing is the flat circular disk 5 or any equivalent thereof, the same forming a flat or enlarged surface to take the place of the pointed extremity of the pin, which the device herein described is adapted to protect.

In order that the device herein disclosed may engage the shank of a pin and prevent the said shank from being accidentally withdrawn therefrom, a circular plate such as illustrated in Fig. 4 is provided, the circular portion thereof fitting within the casing 1 as shown in Fig. 2. The circular plate 6 is provided with an aperture 7 extending centrally therethrough and due to the material thickness of the plate and the restricted size of the aperture 7, the shank 2 of the pin will enter or pass through such aperture or opening at such time only as when the axis of the opening 7 is in alinement with the longitudinal axis of the shank of the pin. By these means the shank of the pin is passed through the aperture 7 and in so doing holds the plate 6 in an upright manner. However, when any retractive stress or force is exerted upon the shank of the pin 2, the plate 6 immediately assumes or tends to assume the position indicated in dotted lines in Fig. 2 which brings the edges of the aperture 7 into forced contact with and therefore frictionally engages the shank 2 of the pin to prevent the withdrawing of the shank of the pin. However, the plate 6 is provided with the upwardly extending arm 8, the same projecting through a suitable slot 9 in the casing 1 and provides means whereby the plate 6 may be held in proper

relation to the shank of the pin for the successful withdrawing of the pin from the aperture 7 thereof.

Connected to the lower extremity of the plate 6 is the downwardly projecting hooked portion 10, the same rotatably engaging a suitable slot or opening 11 whereby the plate 6 is held in proper relation to the casing 1 and is adapted to rotate thereabout. The upper slot 9, as illustrated in Fig. 2, extends to the open ended portion of the casing for the insertion of the plate 6 and also to allow for the free movement of the upper portion thereof so that the plate may tend to assume the angular or inclined position as illustrated in dotted lines when for any reason the shank of the pin is withdrawn.

In order that the locking plate 6 will tend at all times to assume an angular position so that the opening 7 will be disposed at an angle to the longitudinal axis of the shank of the pin, a resilient spring 12 is provided and is a compression spring helical in its nature for the greater portion of its length and terminating in the spiral portion 13 adjacent the restricted or pointed end 3 of the casing 1. The spiral convolutions of the spring serve as an additional guiding means for the centrally disposing of the shank 2 of the pin with relation to the side walls of the casing 1.

A cap 14 is provided with the slots 15 and 16 in the side walls thereof so that the cylindrical portion of the cap may fit beyond the portions 8 and 10 of the plate 6. The cap is provided with the concaved end 17 the center of which is provided with the aperture 18 extending therethrough and of sufficient size for the receiving of the shank of the pin therein. By the providing of the cap 14 with the concaved end, little or no difficulty is experienced in positioning the hat pin fastener and point protector upon the shank of the pin, it only being necessary to bring the concaved end wall 17 against the point of the pin with the result that the pin will naturally slide toward the central portion of the concavity and therefore come into alinement with the aperture 18 therein. After the resilient member has been positioned within the casing, the locking plate 6 is disposed therein and mounted for limited rotation, the cap 14 is positioned upon the end of the casing and is rigidly secured thereto, the exact means whereby the same is rigidly secured being of no importance and may be varied according to the wishes of the maker. In this connection it is also pointed out that the end 5 of the protector may also be varied according to the wishes of the maker, suitable ornamentations being placed thereon, as far as the wishes of the user may lead.

It is to be noted that the pin will be se-

curely locked to the protector when the extreme end thereof is in contact with the extreme end of the protector at such time it being held in central position with relation to the casing and the compression spring bearing against the locking plate will lock the shank of the pin thereto. When it is desired to release the protector from the pin the same may be accomplished by manually operating the upper actuating arm 8 to draw the locking plate to a position substantially at right angles to the longitudinal axis of the pin and by slightly withdrawing the shank of the pin it allows the shank of the pin to assume an angular position so that a holding of the locking plate in a right angular position is not necessary but only to the initial releasing of the pin prior to the withdrawing thereof from the casing.

Having thus described the invention what I claim is:—

1. A device of the class described, comprising a casing open at one end and closed at the other, said casing provided with a longitudinal slot at the open end thereof, said casing provided with an aperture extending through the side wall thereof and diametrically opposed to the above mentioned slot, a cap slidably engaging the open end of the casing and provided with diametrically arranged slots adapted to aline with the slot and aperture of the casing, a locking plate provided with an aperture extending therethrough, the said plate provided with a downwardly extending projection adapted to rotatably engage the casing aperture, said plate provided with an upwardly extending handle projecting through the slot of the casing and cap, said cap provided with a central opening extending therethrough in alinement with the opening of the locking plate, and a spring positioned within the casing and contacting with the closed end wall thereof and with the locking plate adapted to normally maintain the latter in an angular position, the said locking plate opening and cap opening adapted to receive the shank of a pin therethrough and prevent the accidental withdrawal therefrom.

2. A device of the class described, comprising a casing open at one end and closed at the other, the remote end of decreasing cross section and terminating in a rounded end, the said casing provided at its open end with a diametrically arranged aperture and slot, the slot extending to the end of the casing, a cap provided with an opening extending through the face thereof, said cap further provided with diametrically arranged slots adapted to aline with the aperture and slot of the casing, said cap adapted to fit over and engage the open end of the said casing, a locking plate disposed within

the said casing and provided with a downwardly extending offset projection fitting within and being rotatably supported by the casing aperture, the remote extremity of the plate provided with an upwardly offset finger engaging portion extending through the casing and cap slots, and a helical and spirally wound spring coil positioned within the casing, the spirality of the spring conforming with the decreasing cross section of the casing and adapted to guide the shank of a pin within the casing

and to maintain the same centrally thereof, said spring adapted to normally hold the locking plate in frictional engagement with the shank of a pin. 15

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JAMES M. CHRITTON.

Witnesses:

S. S. PHILLIPS,  
M. A. EYE.

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