

D. M. WATKINS.
HAT PIN PROTECTOR.
APPLICATION FILED NOV. 8, 1909.

995,744.

Patented June 20, 1911.

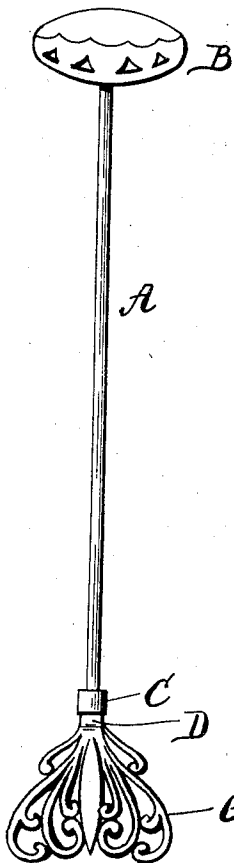


FIG. 1.

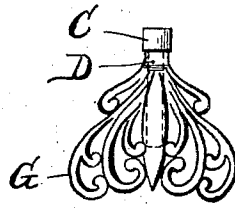


FIG. 2.

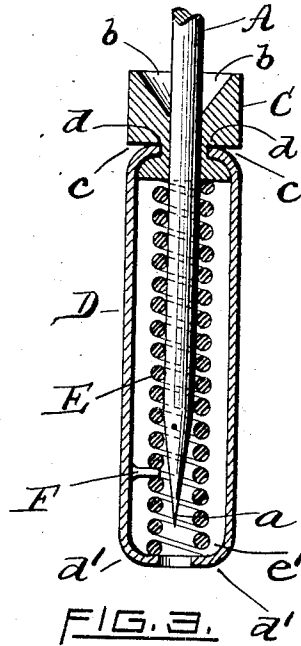


FIG. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID M. WATKINS, OF PROVIDENCE, RHODE ISLAND.

HAT-PIN PROTECTOR.

995,744.

Specification of Letters Patent. Patented June 20, 1911.

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To all whom it may concern:

Be it known that I, DAVID M. WATKINS, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Hat-Pin Protectors, of which the following is a specification, reference being had therein to the accompanying drawing.

Like reference letters indicate like parts.

Figure 1 is a view in elevation of a hat-pin having an ornamental head at one end and my improved pin-point protector at the opposite end. Fig. 2 is a view in elevation (on an enlarged scale) of said pin-point protector. Fig. 3 is a view on a much enlarged scale of the pointed end of a hat-pin, a tubular case containing a spiral spring, adapted to engage said pin and a tubular guide for the insertion of the pin.

My invention relates to the class of hat-pins, and consists of a protector into which the point of the pin is inserted and there partially held in position.

In the drawings is shown a hat-pin A of any preferred style. The pin A has the usual pointed end *a*. At one end of the pin A is mounted an ornamental knob B, of any design or pattern desired. A cylindrical or other guide C has a tubular bore, whose diameter approximately equals the diameter of the pin A, so that the pin may be loosely inserted therethrough. The upper portion of the bore is outwardly flared, as illustrated at *b* in Fig. 3. The guide C is circumferentially grooved, as shown at *c*. A tubular case or sheath D has its upper end bent inwardly, as seen at *d*, and is swaged to extend into the groove *c* of the guide C, and thus to be secured to said guide. A close spiral spring E is supported in the case D and one end *e* thereof bears against the inner end of the guide C, as represented in Fig. 3. The outer end of the case D is bent inwardly, as seen at *d'*, and supports the outer end *e'* of the spring E. A projection F is fastened upon the inner surface of the case D and extends between two adjacent coils of the spiral spring E.

The inner diameter of the spiral spring E

is approximately the same as that of the pin A, so as to allow the insertion of the pin therethrough with a tight fit, and thus to have a slight resilient contact with the pin to hold it in place in the spring, except when withdrawn by a slight force sufficient to overcome such resilient contact.

When the pin has been thrust through a hat, as usual, my protector (separately shown in Fig. 2) is slipped onto the pin point and pressed into position, so that said point and the adjacent portion of the pin enter, slightly expand and engage the spiral coils of the spring E with considerable power, sufficient to maintain its attachment. The flaring portion *b* of the bore of the guide C facilitates the insertion of the pin point. The protector can be withdrawn from such engagement with the pin point by pulling it off, and then the pin can be removed from the hat.

The function of the projection F is to prevent backlash of the spring E, whenever the pin is pressed into the protector D, or pulled therefrom. As this projection enters between two adjacent coils of the spring E, it provides the necessary resistance in both directions when the pin is thrust or withdrawn.

The tubular case D is indicated by the dotted lines in Fig. 2 and is almost entirely concealed by scroll work G, of any desired pattern, or by any other ornamentation.

I claim as a novel and useful invention and desire to secure by Letters Patent:—

In a hat-pin, the combination of a pin having a pointed end; a tubular guide through which the pin can be moved; a tubular case secured to the guide; a spiral spring in the case adapted to receive and engage the pointed end of the pin; and a projection extending from the case between adjacent coils of the spring.

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

DAVID M. WATKINS.

Witnesses:

ARTHUR P. JOHNSON,
WARREN R. PERCE.