

P. H. ALPP.
HAT PIN PROTECTOR.
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1,040,841.

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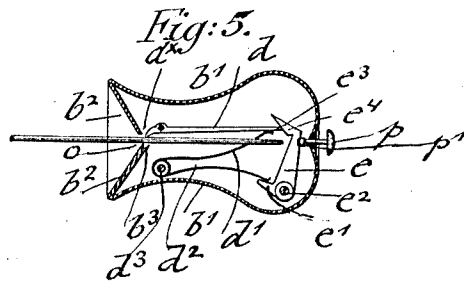
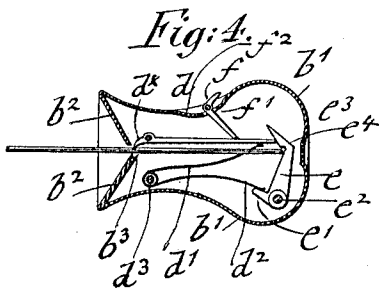
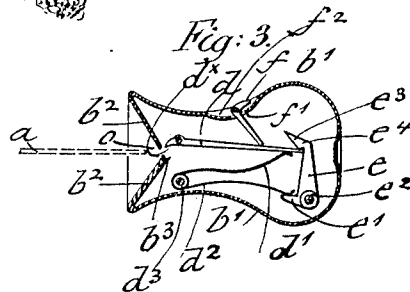
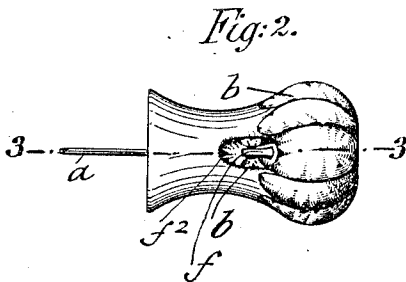
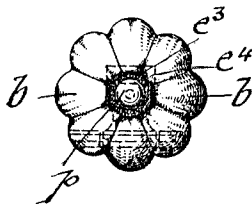


Fig. 6.



Witnesses:
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HAT-PIN PROTECTOR.

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To all whom it may concern:

Be it known that I, PETER H. ALPP, a subject of the Czar of Russia, and a resident of New York, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Hat-Pin Protectors, of which the following is a specification.

This invention relates to an improved protector for ladies' hat-pins whereby the annoyance and danger to accidents which is produced by the projecting points of the hat-pins is obviated, and at the same time a guard for the hat-pin obtained by which the slipping out of the latter and the detaching of the hat from the head-dress is prevented; and for this purpose the invention consists of a hat-pin protector, which comprises an exterior shell having a conical inwardly-tapering diaphragm at its ingoing end provided with a central opening for the pin-point and a notched lower edge adjacent to said opening, a spring-actuated locking lever fulcrumed to the rear part of the shell, a spring-actuated jaw-lever fulcrumed near the central opening of the diaphragm and adapted to be engaged by the locking-lever, and means for producing the engagement of the locking-lever with the jaw-lever for setting the jaw-lever and its jaw into proper position for receiving the point of the hat-pin, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a lady's hat showing my improved point-protector in position on the hat-pin, Fig. 2 is a plan-view of my improved hat-pin protector, drawn on a larger scale, Fig. 3 is a vertical longitudinal section of the same, on line 3, 3, Fig. 2, showing the same ready for receiving and locking the point of the hat-pin, Fig. 4 is a vertical longitudinal section showing the hat-pin point inserted into and locked by the hat-pin protector, Fig. 5 is a vertical longitudinal section of a modified construction of the protector, and Fig. 6 is an end-elevation of Fig. 5.

Similar letters of reference indicate corresponding parts throughout the several figures of the drawings.

Referring to the drawings, *a* represents the point of a hat-pin, and *b* the protector for the same. The protector consists of an exterior shell *b*¹ which is made of suitable sheet metal and approximately in the shape

of a bell and which is provided at its entrance-end with a conical inwardly-tapering diaphragm *b*² that is provided with a central opening *o* for the insertion of the point of the hat-pin and at the lower portion of said diaphragm with a notched edge *b*³ which forms sharp biting edges for holding the pin-point after it has been inserted firmly in position in the shell or socket of the protector, in connection with the sharp edge of a jaw *d*^x on the forward end of a jaw-lever *d* which is fulcrumed adjacent to the central opening *o* of the diaphragm *b*². On the rear-end of the jaw-lever *d* acts a wire or other spring *d*¹, while a second spring *d*² acts on the heel *e*¹ of a locking-lever *e*, which is fulcrumed at *e*² to the rear-portion of the shell *b*¹ of the protector. The spring *d*² is preferably formed as a continuation of the spring *d*¹ which is bent around a stationary cross-pin *d*³ of the shell *b*¹. The upper end of the locking-lever *e* is placed in alinement with the center-opening *o* and provided with an inclined edge *e*³ and a shoulder *e*⁴ at the lower end of said inclined edge, by means of which the locking-lever *e* is adapted to engage and hold the jaw-lever against the tension of the spring *d*¹ in locked position so that its jaw clears the opening *o* and notched edge *b*³ of the ingoing diaphragm *b*², as shown in Fig. 3. When the jaw-lever *d* is held in downwardly-pressed position by the locking-lever *e*, both springs *d*¹ and *d*² are in tension. When the jaw-lever and locking-lever are placed in locked position, as shown in Fig. 3, the protector is ready to be placed in position over the point of the hat-pin. For this purpose, it is passed over the pin-point after the hat-pin is passed through the hat and hair-dress of the wearer, the point of the pin entering through the perforation *o*. The pin does not strike the spring *d*¹ because that spring is located at one side of the path of the pin, the lever *d* being at its rear-portion sufficiently wide to receive the spring *d*¹ at a point out of the path of the pin. The pin-point passes inward until it strikes the shank of the locking-lever *e* and pushes the same back so as to release its upper end from the end of the jaw-lever and permit the latter to move under the tension of its spring *d*¹ in upward direction so that the biting edge of the jaw *d*^x presses on the pin-point and forces the same against the biting edges *b*³ of the diaphragm *b*² and

hold thereby the protector firmly on the point of the hat-pin, as shown in Fig. 4. For removing the protector from the pin-point, it is necessary to return the jaw-lever and locking-lever into their interlocked position. This is accomplished either by an elbow-lever f which is fulcrumed to the upper part of the shell b^1 in such a manner that one arm of the lever f extends through a slot f^1 in the shell in downward direction toward the jaw-lever while the upper outer arm of the elbow-lever is extended over a depression f^2 in the shell so that by pressing the outer arm of the elbow-lever f downward, the inner lower arm is lowered and pressed on the jaw-lever which is thereby lowered against the tension of its spring so that the spring-actuated locking-lever re-engages the rear-end of the jaw-lever, produces the release of the jaw and notched edges from the pin-point and permits the removal of the pin-point from the protector while placing the parts of the protector in proper position for replacing it on the pin-point whenever required.

In place of the fulcrumed elbow-lever f , a pusher p may be arranged, the shank of which passes through a perforation in the end of the shell b^1 and which is provided with a small knob or enlargement p^1 at its inner end so that when the pusher is pressed inwardly, the small knob presses on the upper end of the locking-lever and locks its inclined and shouldered face over the rear-end of the jaw-lever so as to hold the same in position when it is desired to remove the protector from the pin-point. Otherwise the action of the pusher is equivalent to the action of the elbow-lever, both forming the means for applying the locking-lever to the jaw-lever so as to retain the same in unlocked position and clear of the ingoing central opening o of the diaphragm. The point of the hat-pin, on being inserted into the shell, passes either along or sidewise of the rear-part of the jaw-lever and strikes the upper end of the locking-lever, releasing thereby the locking-lever from the jaw-lever. As the edge of the jaw is pressed by the spring acting on the jaw-lever, against the pin-point inserted into the shell and the action

of the biting edges of the lower notched portion of the diaphragm, the protector is firmly retained on the pin-point and thereby an effective and reliable guard-covering for the point of the hat-pin obtained, which can be readily handled when applying or removing it from the point of the hat-pins, and which can at the same time be manufactured and placed on the market at a comparatively small expense.

I claim:

1. A protector for the points of ladies' hat-pins, comprising an exterior shell, a conical inwardly tapering diaphragm at the entrance end of said shell, said diaphragm being provided with a center-opening and a notched edge adjacent thereto, a spring-actuated jaw-lever fulcrumed adjacent to the center-opening of the diaphragm and provided with a biting jaw, a spring-actuated locking-lever whose upper end is placed in alinement with said center-opening for engaging the opposite end of the jaw-lever, said locking-lever being fulcrumed near the rear-end of the shell and adapted for engaging the jaw-lever and holding the jaw in unlocked position.

2. A protector for the points of ladies' hat-pins, comprising an exterior shell, a conical inwardly-tapering diaphragm at the entrance end of said shell, said diaphragm being provided with a center-opening and a notched biting edge adjacent thereto, a spring-actuated jaw-lever fulcrumed adjacent to the center-opening of the diaphragm and provided with a biting jaw adjacent to the notched edge of the opening, a spring-actuated locking-lever whose upper end is placed in alinement with said center-opening and whose lower end is fulcrumed to the rear-end of the shell adapted for engaging the opposite end of the jaw-lever, and means for producing the interlocking of the jaw-lever and locking-lever.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

PETER H. ALPP.

Witnesses:

JOHN MURTAGH,
L. J. MURPHY.