

(No Model.)

H. L. CARPENTER.
HAT FASTENER.

No. 543,170.

Patented July 23, 1895.

Fig. 1.

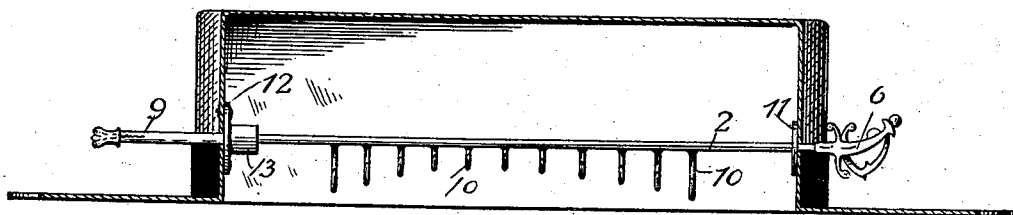


Fig. 2.

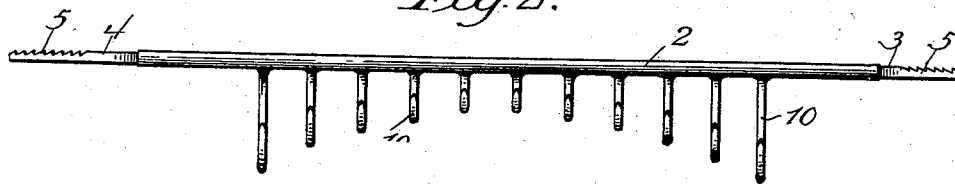


Fig. 3.

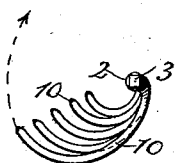


Fig. 4.

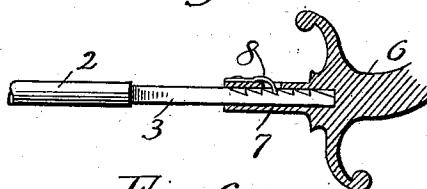


Fig. 5.

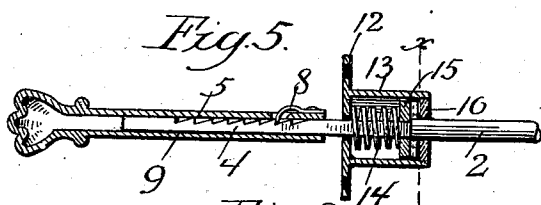


Fig. 6.

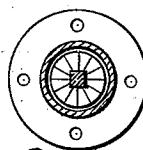


Fig. 7.

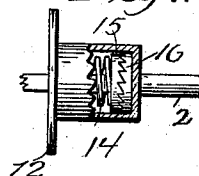


Fig. 8.

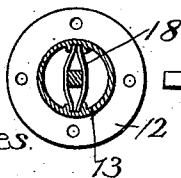
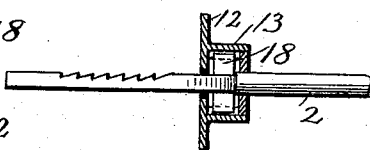


Fig. 9.



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HENRY L. CARPENTER, OF MINNEAPOLIS, MINNESOTA.

HAT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 543,170, dated July 23, 1895.

Application filed September 24, 1894. Serial No. 523,870. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. CARPENTER, of the city of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a certain new and useful Hat-Fastener, of which the following is a specification.

My invention relates to hat pins or fasteners for ladies' hats, and the object of the invention is to provide a hat-pin which may be permanently secured in the hat and which need not be removed from either side thereof in order to secure the hat to the head, thereby avoiding all puncturing and disfiguring of the crown of the hat.

My invention consists in a fastener or pin adapted to be secured in a hat with its ends projecting through the opposite sides thereof, the middle portion of said pin being provided with outwardly-extending fingers, which, when the pin is rotated, catch and hold the hair and thus firmly secure the hat in place.

My invention consists, further, in the combination, with the pin proper or shaft, of curved fingers and of fingers of different lengths to conform to the shape of the crown of the head.

My invention consists, further, in means for locking the pin or shaft to prevent rotation thereof, thus loosening the fingers or prongs; and, further, my invention consists in the combination of removable ornamental outer ends for the pin, and in further details of construction and in combinations, all as herein-after described, and particularly pointed out in the claims.

The invention will be more readily understood by reference to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a sectional view of a hat, showing a hat-fastener embodying my invention in place therein. Fig. 2 is an enlarged view of the hat-fastener with the ornamental ends removed. Fig. 3 is an end view taken from Fig. 2. Fig. 4 is a still further enlarged detail showing the manner of securing the head upon the pin or shaft. Fig. 5 is a similar view showing the opposite removable end and also showing the locking device in section. Fig. 6 is a sectional view on the line *xx* of Fig. 5. Fig. 7 shows the parts of Fig. 5 in full lines.

Figs. 8 and 9 are respectively transverse and longitudinal sections of a modified form of locking device.

As shown in the drawings, 2 represents the pin or shaft proper, having the square end portions 3 and 4, which are preferably notched or serrated to form the small ratchet-racks 5 thereon. These square ends are adapted to hold the ornamental ends of the pin which alone show from the outside. The head may be of any design desired and is provided with a square socket 7 to receive the end of the shaft. The head carries a small spring 8, adapted to engage the teeth on the end of the shaft, and the spring is so arranged that the point of a knife may be inserted under the spring to lift it out of engagement with the teeth, when the head may be slipped off. As pressure is exerted on the pin through the head, the end of the shaft is preferably slipped clear into the socket of the head, so that pressure on the head need not be carried on the light spring 8. The scabbard 9, which conceals the other end of the pin, is similarly secured in place.

The middle portion of the pin is occupied by a series of depending prongs or fingers 10, which are preferably curved, as best shown in Fig. 3, and diminish in length toward the middle of the pin; the lower ends of the fingers or prongs projecting into the arc of a circle substantially corresponding to the crown of the head. The points of the fingers are rounded but not sharp. The fingers are preferably arranged parallel to one another, but, if desired, may be irregularly arranged to insure their catching in the hair of the wearer.

When the hat is first put on the fingers are turned to project downward toward the head. Then the pin is turned to raise the fingers or prongs upwardly and thus pass them through the hair. This catches or forms in loops thereon and securely retains the fingers or prongs. The pin or shaft preferably passes through both sides of the hat and through the small metal plates 11 and 12, sewed to the inner sides thereof. One of the plates is provided with a locking device to engage the square part of the pin and to prevent the same from rotating backwardly and thus releasing the pin. This locking device is preferably

constructed so that a slight inward push upon the head of the pin will release the lock and permit the free backward rotation of the pin. The detail construction of this locking device is illustrated in Figs. 5, 6, and 7. The small boss or casing 13, which is provided on the plate or button 12, contains the small coiled spring 14, adapted to press against the two small ratchet-disks 15 and 16. The latter disk is secured in the end of the casing 13, while the former is secured upon the square part of the pin next to the shoulder thereof. A positive movement of the pin or shaft is permitted by the teeth of the two ratchets slipped by one another, while the pin may be rotated backwardly only after pushing the pin back far enough to move the ratchet 15 out of engagement with the ratchet 16. This lock may be replaced by many others quite as good. A cheaper construction thereof is shown in Figs. 8 and 9, where the casing is shorter and contains simple flat bow springs 18, which embrace the sides of the square portion of the shaft.

It is obvious that cheaper fasteners may be made without the removable ends, or at least with but one removable end, and, further, that my device admits of various modifications which might be made without departing from the spirit of my invention, and I do not therefore confine my invention to the exact construction shown and described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A hat fastener, comprising the shaft, provided at its ends with means for rotatably securing it to the opposite sides of a hat crown, and between its ends with a series of laterally projecting fingers, substantially as described.

2. A hat fastener, comprising a shaft or wire provided at its ends with means for rotatably securing the same to the opposite sides of a hat crown, and also provided between its ends with a series of laterally projecting fingers, and a locking mechanism to prevent

backward rotation of said shaft, substantially as described.

3. A hat fastener, comprising a shaft, having its ends loosely secured on the opposite sides of the hat crown, removable means arranged on the end of said shaft for rotating the same, said shaft being provided between its ends with a series of curved laterally projecting fingers, substantially as described.

4. A hat fastener, comprising a shaft, having its ends rotatably secured in the opposite sides of a hat crown, and a series of curved fingers projecting laterally from said shaft between its ends, and said fingers diminishing in length with respect to one another toward the middle of said shaft, substantially as described.

5. A hat fastener, comprising a pin or wire, having its ends secured to and projecting through opposite sides of a hat crown, the ends of said shaft outside of said crown being removable and said shaft being arranged to rotate and being provided with a series of laterally projecting curved fingers between its ends, and a locking mechanism to prevent the backward rotation of said pin or wire, substantially as described.

6. A hat fastener, comprising a shaft having flattened or square ends, said ends being arranged to project through the opposite sides of a hat crown and rotatably secured thereto, the removable parts attached to said ends, the end portions of the shaft being provided with a series of notches or teeth, said removable ends having detents to engage the same, a ratchet mechanism to prevent backward rotation of said shaft, and a series of curved fingers or teeth projecting laterally therefrom between its ends, substantially as described.

In testimony whereof I have hereunto set my hand this 15th day of September, A. D. 1894.

HENRY L. CARPENTER.

Witnesses:

C. G. HAWLEY,
FREDERICK S. LYON.