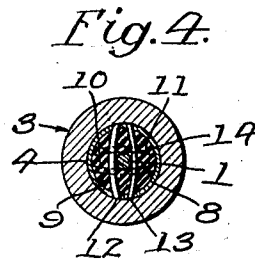
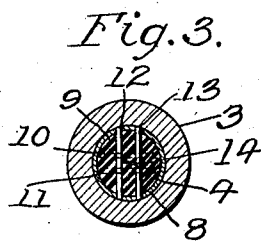
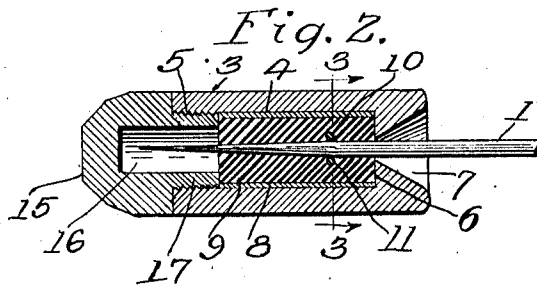
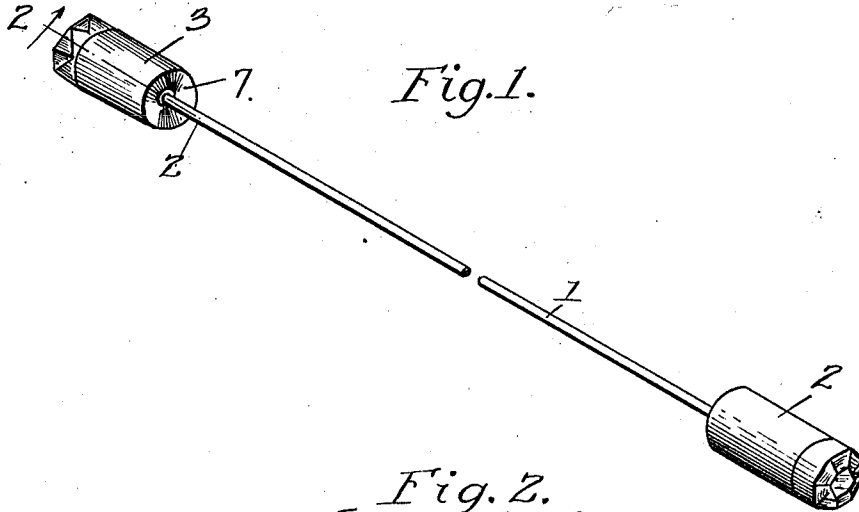


H. JONES.
SAFETY HAT PIN.
APPLICATION FILED AUG. 29, 1910.

982,727.

Patented Jan. 24, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

HELEN JONES, OF LOS ANGELES, CALIFORNIA.

SAFETY HAT-PIN.

982,727.

Specification of Letters Patent.

Patented Jan. 24, 1911.

Application filed August 29, 1910. Serial No. 579,547.

To all whom it may concern:

Be it known that I, HELEN JONES, a citizen of the United States, residing at Los Angeles, California, have invented a new and useful Safety Hat-Pin, of which the following is a specification.

My object is to make a hat pin having a removable head for covering the point of the pin and my invention consists of the novel features herein shown, described and claimed.

In the drawings:—Figure 1 is a perspective of a safety hat pin embodying the principles of my invention; one of the heads being rigid and the other head being removable. Fig. 2 is an enlarged sectional detail of a removable head and taken on the line 2—2 of Fig. 1. Fig. 3 is a cross section on the line 3—3 of Fig. 2, with the pin omitted. Fig. 4 is a view analogous to Fig. 3 with the pin inserted.

Referring to the drawings in detail:—The pin 1 is provided with a rigid head 2 and a removable head 3.

The removable head 3 comprises a main body having a longitudinal bore or chamber 4, there being an internal screw thread 5 at one end of the chamber, a stop shoulder 6 for the filling at the other end of the chamber, and a funnel shaped mouth 7 leading to the chamber. A tube 8 is adapted to fit in the chamber 4; a filling 9 of elastic, sticking material, such as soft rubber is placed in the tube 8, and gripping bars 10, 11, 12 and 13 are inserted horizontally through the tube and through the filling, the bars 10 and 11 being parallel with each other and crosswise of the bars 12, and 13, and said bars being so located that the square opening 14, at the center of the filling 9 and between the bars, is smaller than the diameter of the pin 1, and said bars being of elastic material like piano wire, so that when the pin 1 is inserted through the opening 7 it will be guided to the center of the

filling 9 and pass through the square opening 14, thereby pressing or springing the bars 10, 11, 12 and 13 outwardly, as shown in Fig. 4, and causing said bars to grip the pin 1. The tension of the gripping bars is increased by the pressure of the filling 9 and the gripping force of the bars is increased by the stickiness or elasticity of the filling, so that the head 3 will be firmly held in place upon the pin 1, thereby preventing the pin 1 from causing injury. The cap 15 has a chamber 16 which serves as an extension to the chamber 4 to receive the point of the pin 1, and a nipple 17 extends from the cap 15 into the screw threads 5.

It is obvious that the design and material of the removable head may be varied in many ways without departing from the spirit of my invention as defined by the appended claim.

I claim:

A safety hat pin having a removable head for covering its point, said removable head comprising a main body having a longitudinal chamber, there being an internal screw thread at one end of the chamber and a stop shoulder at the other end of the chamber and a funnel shaped mouth leading to the chamber by the stop shoulder; a tube fitting in the chamber; a filling of elastic gripping material in the tube and fitting against the stop shoulder; a pair of yielding gripping bars inserted through the tube and through the filling and a second pair of yielding gripping bars inserted through the tube and through the filling cross-wise of the first pair, the passage between the four gripping bars being in alinement with the funnel shaped mouth and a cap fitting said screw seat and abutting against the tube and filling.

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Witnesses:

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