S. J. McMILLEN.

SAFETY CATCH FOR PINS.

APPLICATION FILED DEC. 27, 1909.

958,422. **Patented May 17, 1910.**

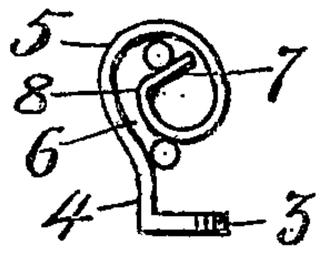

FIG. 1.

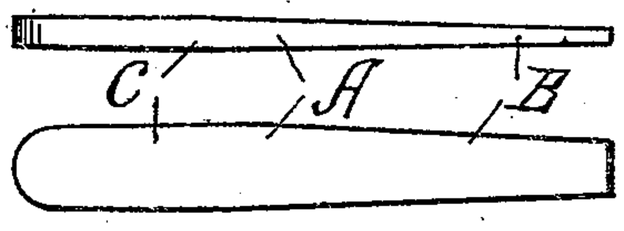

FIG. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

SAMUEL J. McMILLEN, OF PROVIDENCE, RHODE ISLAND.

SAFETY-CATCH FOR PINS.

958,422. Specification of Letters Patent. **Patented May 17, 1910.**

Application filed December 27, 1909. Serial No. 535,163.

To all whom it may concern:

Be it known that I, SAMUEL J. McMILLEN, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Safety-Catches for Pins, of which the following is a specification.

My invention relates to an improvement in safety catches for use on jewelry pins having pin-tongue for attaching the pin to clothing when in use.

The general object of my invention is to form a strong and secure safety catch without any working parts that have to be operated to lock the pin in place.

The nature of my invention consists in so forming or shaping a piece of metal into a safety catch that the pin-tongue cannot be inserted into the locked position in the catch or removed therefrom without the use of considerable force. To this end I so shape or form my improved safety catch that the pin-tongue will have to be forced past an abutment to either secure the pin-tongue or to release the same the nature of the spring metal from which the catch is formed being such as to permit of sufficient movement of the free end of the catch, so as to allow the pin-tongue to be forced past the abutment.

Figure 1 is an end view of the improved safety catch showing the pin-tongue in the locked and unlocked position. Fig. 2 is an edge and side view of the stock from which the catch is formed.

In the drawings, A represents the blank from which the catch is shaped, B the tapering end which is bent or shaped, as illustrated in Fig. 1, and C the portion which forms the base 3 and the bottom 4 of the safety catch. The blank A is formed to have the base 3 and the bottom portion 4, and is so bent as to form the circular top or head 5 forming the narrow channel 6, the end 7 being bent outward to form the abutment 8 at the inner extremity of the channel 6. End 7, extends in a straight plane, and is inclined with respect to the bottom portion 4, and forms a wedge-shaped space in conjunction with the circular top or head 5, whereby the pin-tongue is held wedged between inclined end 7, and the circular top or head 5. The free extremity of end 7, approaches circular head 5, to an extent to preclude the pin-tongue passing same.

In the use of the catch it will be evident that to insert the pin-tongue into the safety catch to secure the same in the locked position it will be necessary to force the pin-tongue up through the channel 6 past the abutment 8, when it will be securely locked against accidental removal, and to release the pin-tongue it will be necessary to force the pin-tongue down past the abutment 8, and then through the channel 6.

The device is simple in construction, efficient in use and easily operated.

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

A safety catch, composed of a base and a substantially circular head, the free end of said head extending in a straight plane for a short distance and forming a pin-holding space in conjunction with the head, the extremity of said free end extending in proximity to the head to an extent to preclude the pin tongue passing between said free extremity and the adjacent portion of the head, said free end and the adjacent portion of the head forming a wedge-shaped space whereby the pin tongue is held wedged therein.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL J. McMILLEN.

Witnesses:

ADA E. HAGERTY,

J. A. MILLER.