

No. 628,598.

Patented July 11, 1899.

F. T. CLARK.
SAFETY PIN.

(Application filed Oct. 7, 1898.)

(No Model.)

Fig. 1.

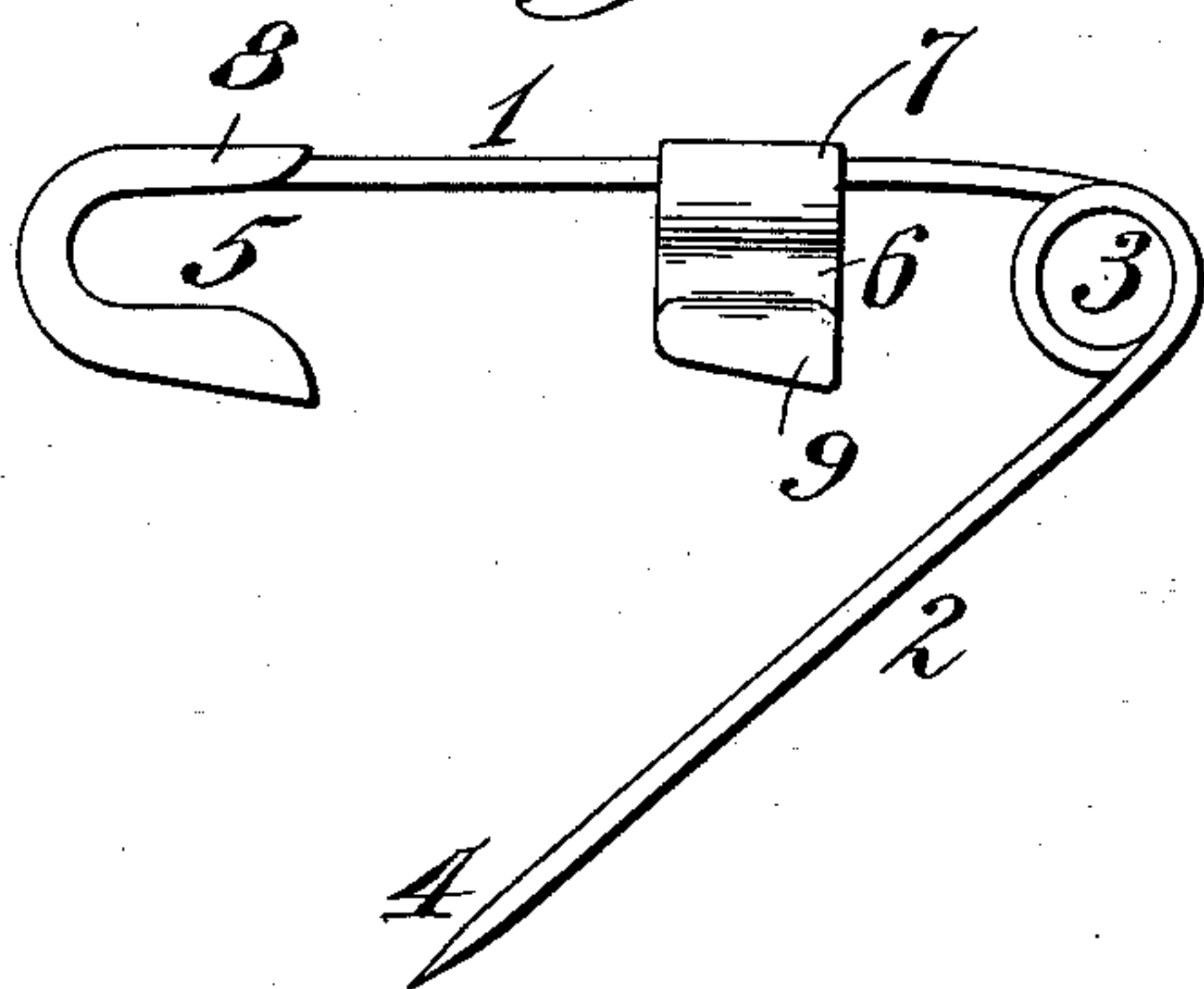


Fig. 2.

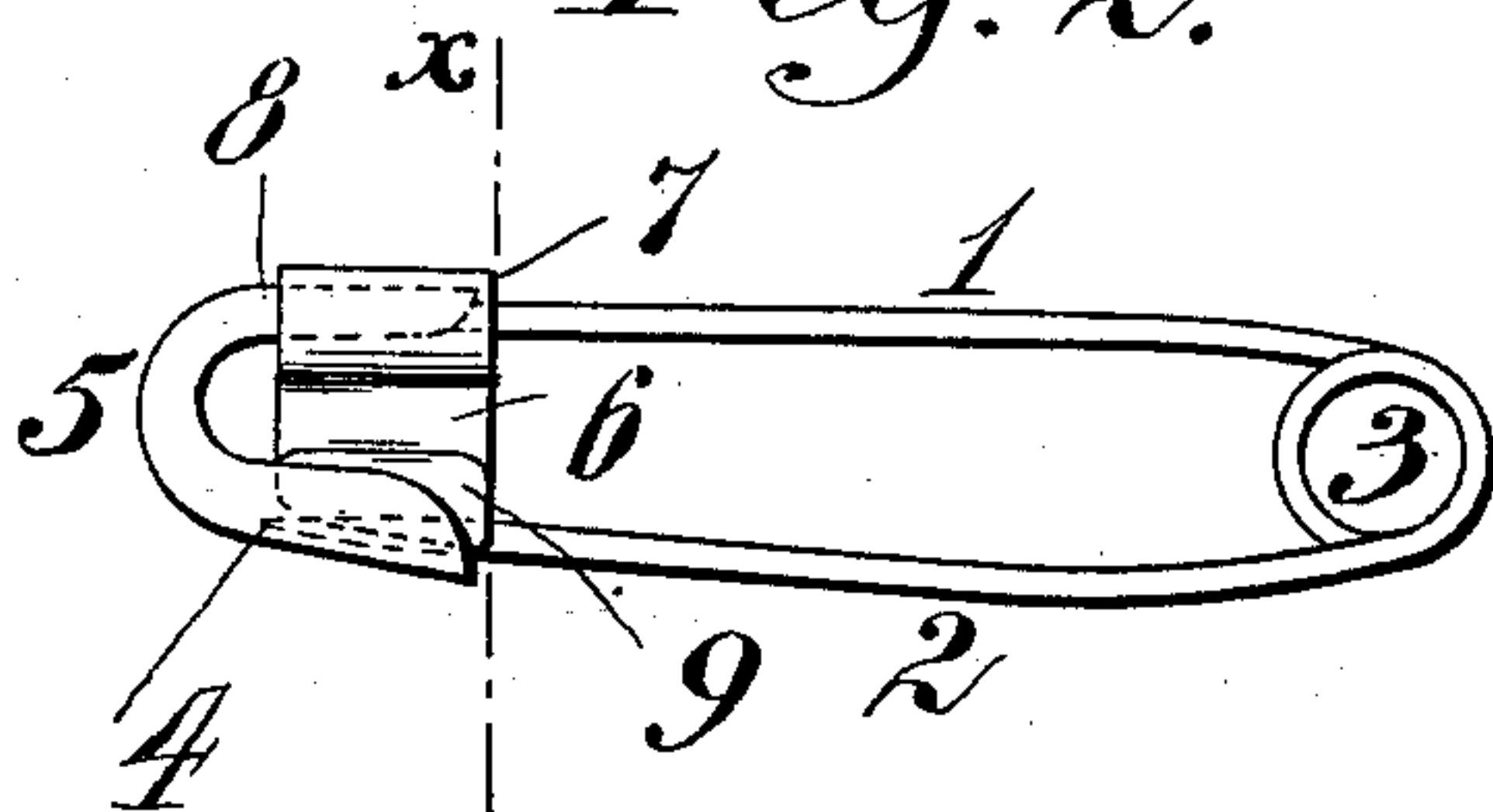
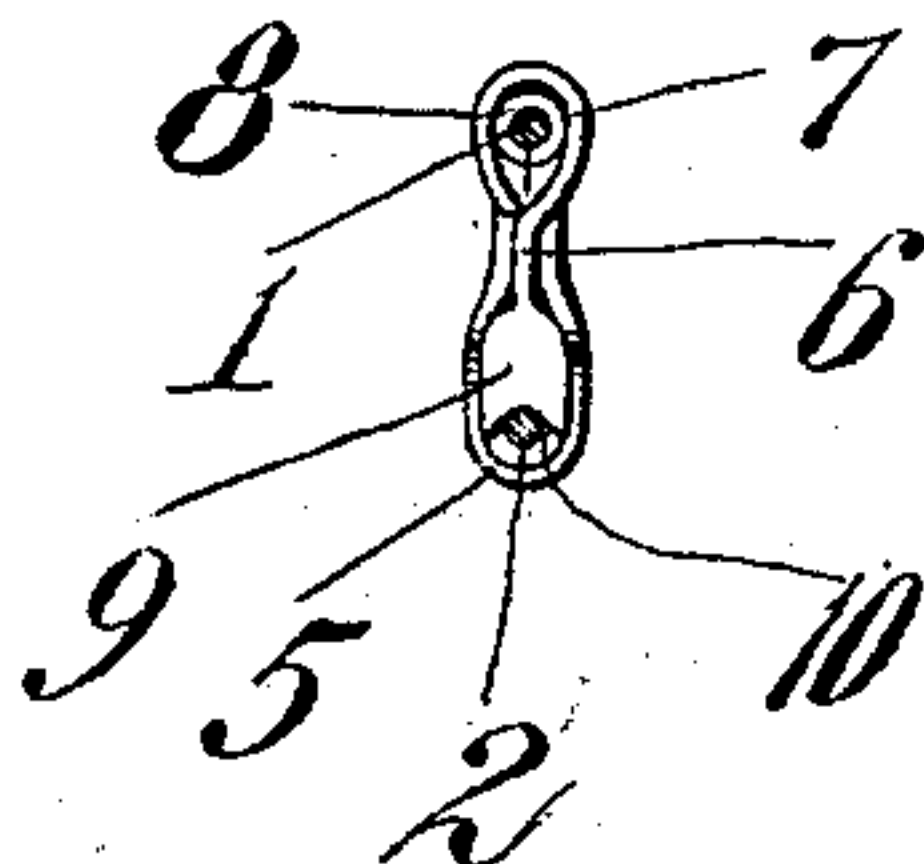


Fig. 3.



WITNESS

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SAFETY-PIN.

SPECIFICATION forming part of Letters Patent No. 628,598, dated July 11, 1899.

Application filed October 7, 1898. Serial No. 692,963. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK THOMAS CLARK, a citizen of the United States, and a resident of Somerville, county of Somerset, and State of New Jersey, have invented certain new and useful Improvements in Safety-Pin Locks, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar numerals of reference indicate corresponding parts.

My invention relates to safety-pins, and has for its object to provide a simple, inexpensive, and effective attachment thereto whereby the point of the pin may be securely locked in its sheath to avoid injury to the person, so liable to occur from an accidentally-opened safety-pin of ordinary form.

The invention will first be described and then will be particularly defined in claims hereinafter set forth.

In the drawings, Figure 1 is a side elevation of an open safety-pin with the lock attached thereto. Fig. 2 is a side view with the lock engaged with the sheath and point of the closed pin, and Fig. 3 is a cross-sectional view taken on the line *xx* of Fig. 2.

The safety-pin proper has the usual form, and comprises an elastic wire having a body or bar portion 1 and a pointed end portion 2 connected by the usual spring-coil 3, giving requisite elasticity for opening the pin automatically when its point 4 is disengaged from the sheath 5, which is fixed to the end of the pin-bar 1 opposite the coil 3.

My improvement in its preferred form comprises a movable latch plate or part held to the pin bar or body and adapted to lock over the closed pin-point within the sheath. This said latch-plate comprises a sheet-metal plate 6, having a loop 7, by which it is placed on the pin-bar 1, so as to slide along said bar and bind upon or over the upper end 8 of the sheath 5, which is lapped upon and fixed to the bar 1. The opposite or lower edge 9 of the lock is preferably broadened or thickened, so as to fit between the opposite side walls of the sheath 5, and said part 9 is preferably provided with a longitudinal edge groove 10 more or less closely fitting over the point of the closed pin.

In operation the pin is applied to one or more fabrics or parts thereof to be fastened and is then closed by slipping the pin-point 4 into the sheath 5 in the usual manner,

whereupon the lock-plate 6 is slipped along the pin-bar 1 until its edge 9 enters the sheath 5 and locks over the closed pin-point. The lower grooved clamping edge of part 9 is preferably beveled to correspond with the bevel of the opposing base of the sheath 5, and the lock-loop 7 is adapted to frictionally bind on the upper end 8 of the sheath, whereby sufficient friction is developed by the latch acting on the pin-point and sheath to securely lock the safety-pin closed, and thereby prevent distressing accidents to children or others to whose clothing the pin may be adjusted.

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

1. A safety-pin having a lock comprising a plate or part movable at one edge along the pin-body and having at its opposite edge a portion fitting laterally within the sheath and having an edge groove locking over the closed pin-point, substantially as described.

2. A safety-pin having a bar or body portion 1 and a pointed end portion 2 connected by spring-coil 3; and provided with a sheath 5, combined with a lock device having a loop 7 loose on bar 1 and an opposite portion 9 longitudinally beveled and grooved at its free edge and adapted to enter the sheath 5 and lock therein over the closed pin-point, substantially as described.

3. A safety-pin comprising a body portion with the pin-point and an end sheath, said pin having a lock comprising a plate or part provided at one edge with a loop loosely encircling and movable on the pin-body and of a diameter adapted for frictional contact around one portion of the pin-sheath, and having at its opposite edge a grooved portion of sufficient thickness for frictional contact against the inner side walls of the free end of the pin-sheath, whereby the lock is retained against displacement when in engagement with the sheath and serves to lock over the closed pin-point, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 29th day of September, 1898.

FREDERICK THOMAS CLARK.

Witnesses:

AUSTIN MOORE,
WM. D. BAUER.