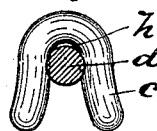
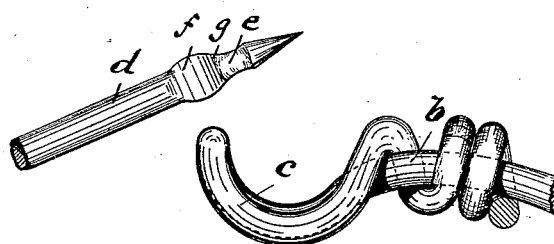
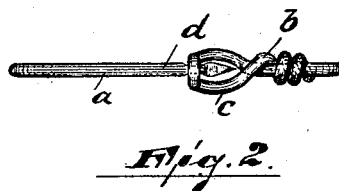
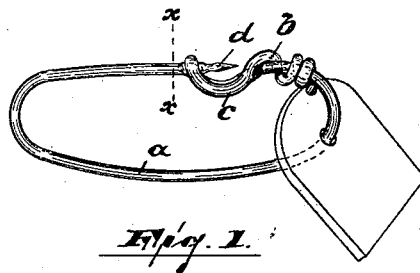


(No Model.)

M. FRISEN.
FASTENING DEVICE.

No. 493,377.

Patented Mar. 14, 1893.



WITNESSES:

INVENTOR:

Wm. D. Bell.
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ATTORNEYS

UNITED STATES PATENT OFFICE.

MALCOLM FRISEN, OF PATERSON, NEW JERSEY.

FASTENING DEVICE.

SPECIFICATION forming part of Letters Patent No. 493,377, dated March 14, 1893.

Application filed December 31, 1892. Serial No. 456,974. (No model.)

To all whom it may concern:

Be it known that I, MALCOLM FRISEN, a citizen of the United States, residing at Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Fastening Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to a new and useful improvement in fastening devices and it is particularly applicable to fastening pins used in securing tags to fabrics.

It consists in the improved construction whereby the point of the fastening device may be securely locked and easily disengaged from the body of the pin, and it also consists in the novel construction and arrangement of parts hereinafter more fully set forth and claimed.

In the drawings Figure 1 is a side elevation of the improved fastener with price tag attached, showing the fastener locked. Fig. 2 is a top plan view of the fastener. Fig. 3 is an enlarged detailed view showing the construction of the point and body of the pin whereby the same may be locked into engagement with each other, and Fig. 4 is a vertical section taken on the line $x-x$ of Fig. 1.

In the drawings a is the body of the pin made preferably of thin wire. The end b of the wire is coiled substantially as shown to form a double curved portion c , between the arms of which the point d of the pin is adapted to enter and be held. The point d of the pin has near its extreme end two flattened surfaces e and f arranged in planes approximately at right angles to each other. Be-

tween these flattened surfaces e and f is formed a ridge g . The arms of the extreme point of the double curved portion c are bent inward to form a neck or contracted aperture h substantially as shown in Fig. 4. This aperture h is sufficiently wide to admit of the entrance of the point of the pin but serves to bind upon and firmly hold the ridge g when the pin is under a longitudinal strain.

It is manifest that this locking device is applicable to safety pins and similar fastening pins and that the essential feature of the present invention is a fastening pin having an enlargement g near its pointed end and at its other end a recess or slot into which the point and enlargement are adapted to enter but which serves by its contracted aperture h binding upon the enlargement g to retain the point within the slot when lateral or longitudinal strain is brought to bear upon the locked pin.

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

A fastening device consisting of a strip of wire having at one end a point and at the other end an opening formed by bending the wire back upon itself, the pointed end of said fastening device being flattened at or near the point in two planes approximately at right angles to each other to form an enlargement, said enlargement being adapted to enter and be locked in the opening at the other end of the fastening device, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of December, 1892.

MALCOLM FRISEN.

Witnesses:

ALFRED GARTNER,
HENRY E. EVERDING.