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PATENTED APR. 7, 1903.

J. W. LAWSON.  
STUD FOR SHIRT BOSOMS.  
APPLICATION FILED JULY 31, 1902.

NO MODEL.

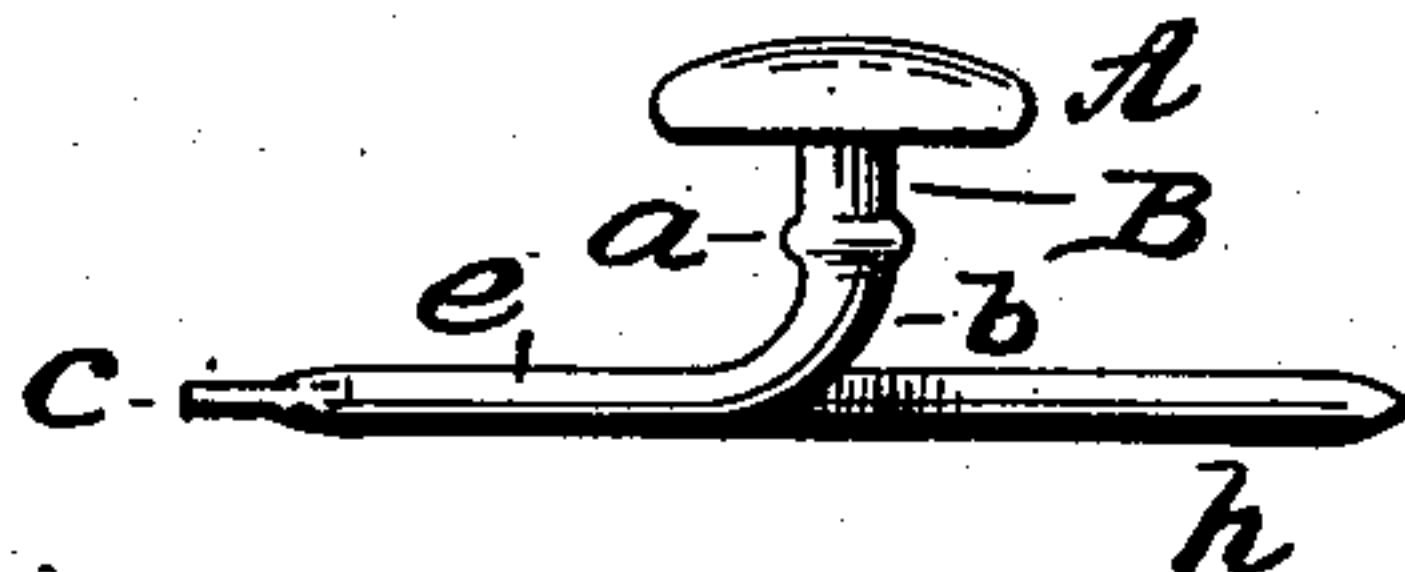


FIG. 1.

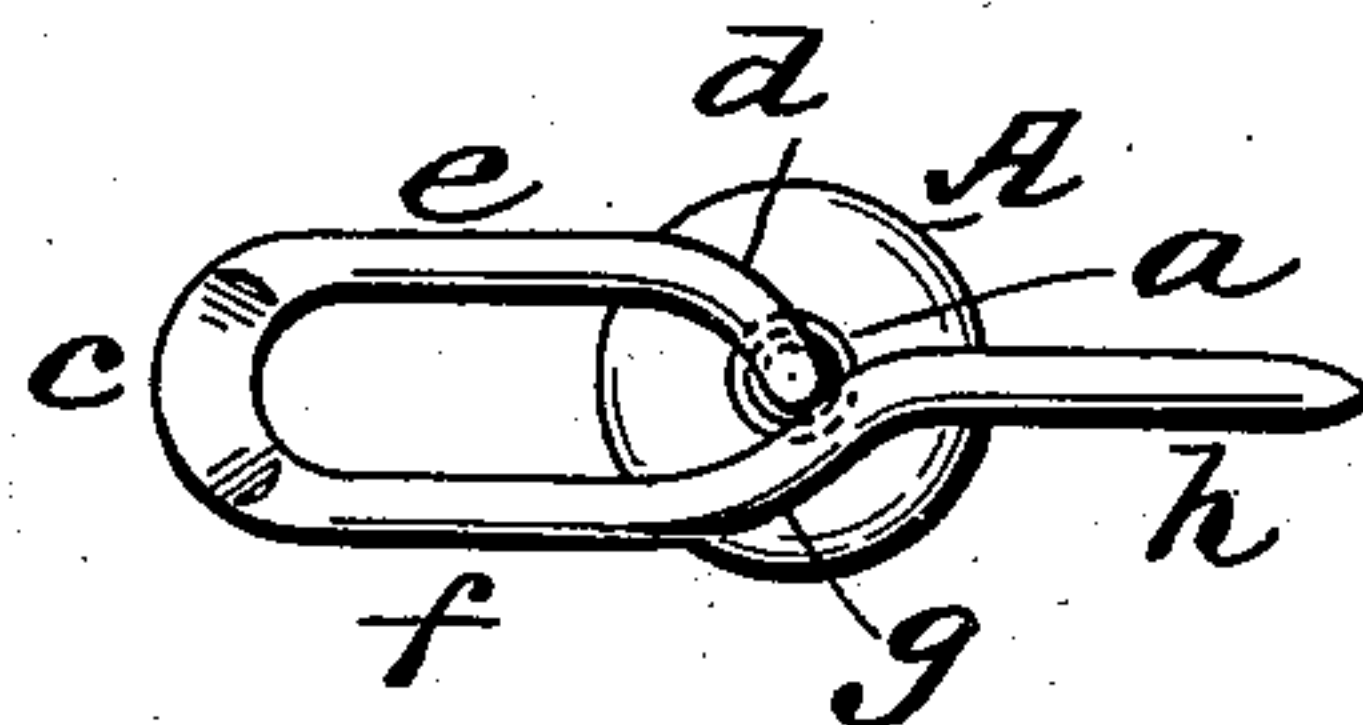


FIG. 2.

WITNESSES.

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JAMES W. LAWSON, OF EAST PROVIDENCE, RHODE ISLAND.

## STUD FOR SHIRT-BOSOMS.

SPECIFICATION forming part of Letters Patent No. 724,591, dated April 7, 1903.

Application filed July 31, 1902. Serial No. 117,866. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES W. LAWSON, a citizen of the United States, residing at East Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Studs for Shirt-Bosoms, of which the following is a specification, reference being had therein to the accompanying drawings.

Like letters indicate like parts.

Figure 1 is a side elevation of my invention. Fig. 2 is a bottom plan view of the same.

My invention relates to studs for shirt-bosoms; and it consists of the novel construction and combination of the several parts, as hereinafter described, and specifically set forth in the claims.

In the drawings, A represents the head or ornamental front of my improved shirt-stud. The shank B is fastened to the head A on the under side thereof, at the center, preferably by solder, and is of any proper diameter, as shown in Fig. 1. It is provided with an integral circumferential ridge or enlargement (designated as *a*) and may be made in any suitable manner. The portion of the shank B beyond the circumferential ridge *a* and indicated as *b* in Fig. 1 is of a reduced tapering diameter, and the remainder of the wire continues of the smallest diameter except at the bend or bow, (marked *c*,) where it is flattened and thinned. The portion *b* is bent and curved a quarter-turn, as shown at *d* in Fig. 2. Then the wire is straight for a certain length, as seen at *e*. Then it is bent into a half-circle, as at *c*, (where it is also flattened). Then it extends straight and parallel with the portion *e*, as illustrated at *f*. Then it is bent and curved almost a quarter-turn, as shown at *g*, and there comes in contact with the curve *b*, and thence it extends straight, as at *h*, in a line parallel to the radius of said head A in the same direction, but to a length equal to the loop formed by the parts *e*, *c*, *f*, and *g*.

To insert this improved stud in the shirt-bosom, the outer end of the straight portion *h* is thrust through the eyelet-hole of the shirt-bosom on the front, and the wire is pushed until the inner edge of the bow *c*, at the center thereof, abuts the open edge of said eyelet-hole. Then with a slight twisting movement given by the fingers the wire is drawn

until the cloth lies between the ridge *a* and the under side of the head A. The ridge *a* as the stud is drawn expands the eyelet-hole of the starched linen shirt-bosom sufficiently to enable it to pass through to the rear of the bosom, and then the resilience of the stiff cloth causes the eyelet-hole to close in snugly against the shank B, and thus the ornamental front or head A of the stud is kept in position and has a snug contact with the front of the shirt-bosom.

The wire constituting the loop above described should have a sufficient resilience to allow the shirt-bosom to pass between the parts *b* and *g* when said wire is pushed with a slight force. The flattening of the bow *c* gives a resilience to the loop, enabling a slight movement of the tongue portion *h* in the plane of the shank B. These two resilient movements insure the proper contact and pressure of the parts *e*, *c*, *f*, *g*, and *h* against the inner surface of the shirt-bosom. It is obvious, however, that the circumferential ridge *a* may be dispensed with and also that the bow *c* need not be flattened, but may remain cylindrical in cross-section, and yet the stud will be useful and efficient, the essential feature of my said invention being the elongation of the shank of the stud into a wire (preferably reduced in diameter) and bent into a loop, closed at its outer end and lightly touching at its inner end the curved portion *b* and terminating with an integral pin-shaped tongue.

This stud, when once the end of the tongue *h* is inserted in the eyelet-hole of the shirt-bosom, is easily and rapidly brought into wearing position by a push, a twist, and a pull and is as easily removed and detached by following the same movements in a reverse order. The comparatively long area of contact of the wire bent and shaped as described against the under side of the shirt-bosom prevents any tipping of the stud or other undesirable or improper position of it in relation to the shirt-bosom. This loop of the wire somewhat resembles the well-known spiral twist of the shank of a shirt-stud, but differs therefrom because it is flat, and therefore every part of the loop, as well as the tongue, assists by the contact and pressure thereof in holding and maintaining the stud in proper wearing posi-



tion, whereas the coils of a spiral wire when used for the shank of a stud have no such function, but simply spread apart under force to allow them to move temporarily over the opposite surfaces of the cloth when the stud is inserted or withdrawn.

It is obvious that my invention applies not only to studs for shirt-bosoms, but to cuff-buttons, sleeve-buttons, and other similar articles of personal wear.

I claim as a novel and useful invention and desire to secure by Letters Patent—

1. The improved stud for shirt-bosoms herein described, consisting of an ornamental front or head and a shank terminating in an elongated integral wire having a quarter-turn, two straight portions parallel with each other and connected by a semicircular bow, a straight tongue portion extending in a line parallel with said two straight portions but in an opposite direction and midway between them and connected with one of them by a quarter-turn, substantially as shown.

2. The improved stud for shirt-bosoms here-

in described, consisting of an ornamental head and a shank having a circumferential ridge on a line close to and parallel with the back of said head said shank being curved and extending in an integral elongated wire of reduced diameter, which is shaped into a flat loop closed at the outer end and at the inner end lightly touching the curve of said shank and terminating in a straight tongue, substantially as specified.

3. The improved stud for shirt-bosoms herein described, consisting of an ornamental head and a shank curved and extending into an integral elongated wire, the latter bent into a flat loop closed and flattened at its outer end and lightly touching at its inner end the bend of the shank and terminating in a straight tongue, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES W. LAWSON.

Witnesses:

EDWARD F. LOVEJOY,

HOWARD A. LAMPREY.