

(No Model.)

G. E. ADAMS.
BUCKLE.

No. 517,421.

Patented Apr. 3, 1894.

Fig. 1.

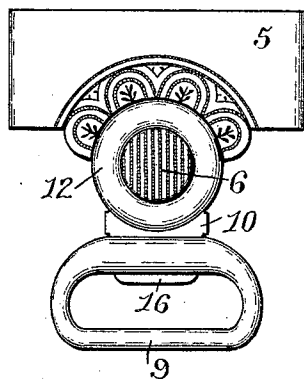


Fig. 2.

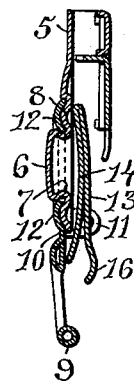
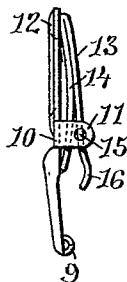


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE E. ADAMS, OF PROVIDENCE, RHODE ISLAND.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 517,421, dated April 3, 1894.

Application filed August 9, 1892. Serial No. 442,556. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. ADAMS, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Buckles; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in suspender-buckles and relates more especially to the devices known as cast-offs.

The object of the invention is to produce a suspender-buckle provided with a swiveled cast-off which is substantially secured to the lower portion thereof but which can be readily detached therefrom.

The invention consists in the peculiar construction of the buckle-frame and the combination therewith of the novel cast-off clamp, as will be more fully described hereinafter and pointed out in the claims.

Figure 1 represents a front view of the complete buckle. Fig. 2 represents a vertical sectional view of the same. Fig. 3 represents an edge view of the improved cast-off to more clearly indicate the construction of the same.

Similar numbers of reference designate corresponding parts throughout.

In the drawings 5 indicates a buckle-frame which is furnished with any suitable means for clamping the webbing. The lower portion of this frame, which is circular in shape, is provided with a button or stud 6 having a contracted neck 7, and the button may be formed in part with, or may be secured to, the buckle-frame, and around the stud or button is an annular rib 8 which tends to strengthen the frame and to form a surface-bearing for the securing-ring of the cast-off. The cast-off is generally formed of two pieces of sheet-metal, that forming the front being stamped out to form a suspending-loop 9, a cross-bar 10 the ends 11 of which are bent backward at right angles to the face to form posts, and a securing-ring 12. The ends of the posts 11 are perforated in axial alignment to form pintle-bearings. The convex securing-ring 12 has an inner circumference which is but slightly larger in cross-section than the head of the button or stud 6 and the back of this ring is

concaved to fit over the annular-rib 8. The clamping-device is formed by a strip of sheet-metal bent over upon itself at the upper end to form the back 13 and the spring-tongue 14, the back 13 being furnished with pintles 15, which are journaled in the bearings of the posts 11, and at the lower end has a thumb-piece 16 by which this end is depressed against the action of the spring-tongue the lower end of which bears against the rear surface of the front plate which forms the upper portion of the loop 9. The action of the cast-off is very simple,—pressure being applied to the thumb-piece 16 will raise the upper end of the plate 13 sufficiently to allow the lower end of the buckle-frame, carrying the button or stud 6, to be inserted between the spring-plate 14 and the ring 12,—the thumb-piece may now be released and, if the cast-off has not been pushed sufficiently upward to engage the button, a slight upward movement will bring the ring 12 in a position to be drawn down on the rib 8 by the resilience of the spring 14. The button forms a substantial support for the ring 12 which being swiveled thereon tends greatly to the comfort of the wearer.

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

1. The combination with a buckle furnished with a stud or projection, of a cast-off adapted to have a suspender end connected with it, and comprising a finger piece constructed at its inner end to fit over the said stud or projection, and to turn thereon, and a body extended under the inner end of the said finger piece to act in opposition to the same in holding it in place; substantially as described.

2. In a suspender end cast-off or similar article, a clamping-device consisting of a ring, a cross-bar below said ring having its ends bent backward to form lugs, a suspending-loop formed in part with said bar, and a spring-clamp pivoted in said lugs combined with a co-operating member having a projection entering the ring, as described.

3. In a suspender end cast-off, the combination with a suspending-loop, a securing-ring, an intermediate cross-bar having its ends bent to form lugs, the back-plate 14 having the thumb-piece 16, the pintles 15 journaled in the lugs before mentioned, and a spring-

tongue 14 formed in part with said plate 13, of the co-operating member having a projection entering the ring as described.

4. The combination with the buckle provided at its lower portion with a stud of a cast-off having a ring adapted to surround said button, and a spring clamping-device pivotally connected with the ring for drawing the same into position, as described.

5. The combination with the buckle having a substantially circular lower portion, and a stud 6 provided on such portion, of a cast-off consisting of the ring 12, loop 9, and posts 11, and a back-plate 13 having pintles journaled in said posts, a thumb-piece 16, and a spring-tongue 14 bent over from said back-plate, as described.

6. The combination with a buckle or corresponding part provided with a round stud or projection, of a cast off provided with co-operating jaws pivotally connected together, one of which is formed with a circular opening to receive the stud of the buckle or corresponding part and the other of which operates to keep its opposing jaw and the stud in engagement, whereby a swiveling motion of the cast off on the stud is permitted; substantially as described.

In witness whereof I have hereunto set my hand.

GEORGE E. ADAMS.

Witnesses:

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M. F. BLIGH.