

(No Model.)

G. E. ADAMS.
BUCKLE.

No. 488,175.

Patented Dec. 20, 1892.

Fig. 1.

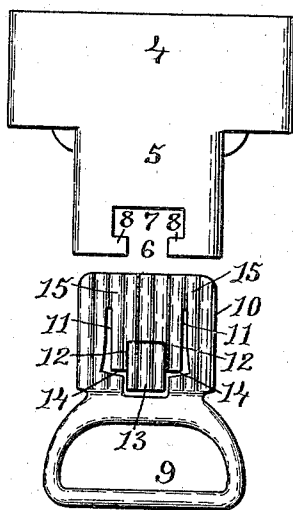
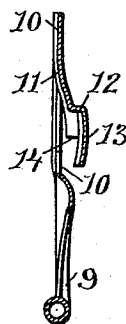


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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BUCKLE.

SPECIFICATION forming part of Letters Patent No. 488,175, dated December 20, 1892.

Application filed May 20, 1892. Serial No. 433,684. (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
5 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
10 this specification.

This invention has particular reference to improvements in buckles formed of two parts, the buckle-frame and the cast-off, which are secured together by a spring-catch.

15 The object of the invention is to produce a spring-catch for buckles which shall be durable in construction, compact in form, and convenient in operation.

The invention consists in certain peculiar
20 features of construction and combination of novel parts, whereby a spring-catch is formed which is more compact than those heretofore constructed as well as more economical in the cost of manufacture, as will be more fully described hereinafter and pointed out in the
25 claim.

Figure 1 represents a view of a buckle and the cast-off detached therefrom to show the construction of the spring-catch. Fig. 2 represents a vertical sectional view of the cast-off.
30

Similar numbers of reference designate corresponding parts throughout.

In the drawings 4 indicates a buckle-frame which is provided with the usual clamping-device for securing the webbing and has a depending member 5 the sides of which are bent over to embrace the tongue of the cast-off; the lower central portion of this member is cut away, as shown in Fig. 1 of the drawings, to provide an entrance 6 for the thumb-piece or depression-stud of the spring-tongue, above the entrance the metal of the member 6 being cut away to form a transverse-slot 7, slightly longer than the width of the spring-tongue of the cast-off, to allow the lower end
45 of this spring-tongue to spring slightly upward in order to bring the lower edge of the same into engagement with the shoulders 8 8 formed by the lower edge of the transverse-slot.
50

In the usual form of spring-tongue the metal of the cast-off loop 9 extends upward for about twice the proposed length of the spring-tongue,—this metal is bent transversely and turned back upon itself the lower end being
55 provided with a depression-stud and the lower edge being adapted to engage with the lower edge of the transverse-slot in the buckle-frame,—the metal is apt to break across the bent portion and the doubled-piece, or tongue, 60 occupies more space than is desirable in buckles of the present construction, in which the slightest possible addition to the thickness of the web is most important.

In the buckles provided with cast-offs the
65 great objection has been that the member 5 formed a box of considerable thickness to receive the doubled-over spring-tongue.

In carrying out my invention I take a cast-off loop 9 having a plate of thin metal 10 extending therefrom,—from the central portion of the plate 10 I stamp out the downwardly-extending tongue 11, which remains joined to the main portion of the plate at the other end, the lower end of the tongue having a
75 short projection. I now strike up this projection, on the lower portion of the plate 10 and that part included within the lines 12, to form the thumb-piece 13 the surface of which slants toward the cast-off loop, the lower
80 edges of the plate 10 on each side of this thumb-piece forming shoulders 14 14 which are adapted to engage with the shoulders 8 8 of the member 5 to hold the cast-off thereto. Coincident with the striking-up of the thumb-piece 13, or in a separate operation therefrom,
85 I form the corrugations 15 extending in a direction lengthwise of the plate 10; these corrugations tend to strengthen the whole plate and tongue and in fact make the use of my
90 peculiar spring possible,—I now bend the lower end of the spring-tongue upward from the plane of the plate 10 and finally harden the plate and tongue.

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

The combination with a buckle-frame having a depending member with bent-over sides and provided with the slot 7 having an en- 100

trance 6 and the shoulders 8, of a cast-off,
consisting of a loop 9, a corrugated-plate 10
extending therefrom, a corrugated spring-
tongue 11 stamped out from said plate and
5 bent up from the plane of said plate, and a
thumb-piece 13 stamped from the lower por-
tion of the tongue, as described.

In witness whereof I have hereunto set my
hand.

GEORGE E. ADAMS.

Witnesses:

HENRY J. MILLER,
M. F. BLIGH.