

(No Model.)

C. C. SHELBY.
BUCKLE.

No. 455,642.

Patented July 7, 1891.

Fig. 1.

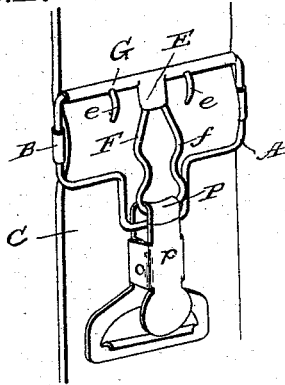


Fig. 2.

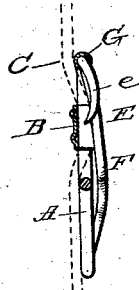


Fig. 3.

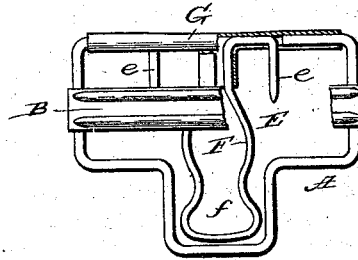


Fig. 4.

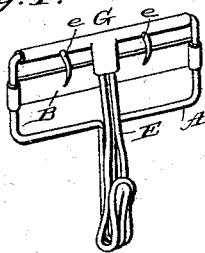


Fig. 5.

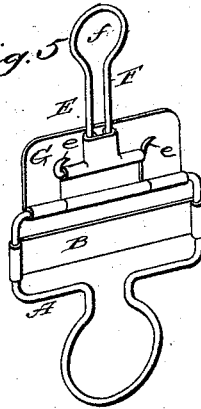
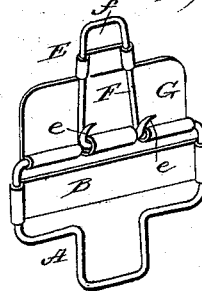


Fig. 6.



WITNESSES:

Thomas Durant
E. H. Smith

INVENTOR
Christopher C. Shelby.
BY
Church & Church
HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

CHRISTOPHER C. SHELBY, OF PATERSON, NEW JERSEY.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 455,642, dated July 7, 1891.

Application filed November 4, 1890. Serial No. 370,330. (No model.)

To all whom it may concern:

Be it known that I, CHRISTOPHER C. SHELBY, of Paterson, in the county of Passaic and State of New Jersey, have invented certain
5 new and useful Improvements in Suspender-Buckles; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this
10 specification, and to the letters of reference marked thereon.

This invention has for its object to provide a suspender-buckle which shall be cheap, durable, and capable of being easily adjusted,
15 and which when adjusted will remain in its position of adjustment against any pressure which is likely to be brought to bear against the same in ordinary use.

The invention consists in certain novel details of construction and combinations and arrangements of parts to be hereinafter described, and pointed out particularly in the claims at the end of this specification.

Referring to the accompanying drawings,
25 Figure 1 is a perspective view of a buckle constructed in accordance with my invention, showing its application to a suspender-end. Fig. 2 is a sectional view through one end of the buckle shown in Fig. 1 with the tongue
30 thrown back. Fig. 3 is a bottom plan of the same with parts broken away to illustrate the construction more clearly. Fig. 4 is a perspective view of a modified form of the buckle adapted particularly for use in connection with rings or loops on the suspender-
35 ends. Figs. 5 and 6 are perspective views of modified forms of the buckle with the tongues thrown back to illustrate the manner of forming the holding-teeth.

40 Similar letters of reference in the several figures indicate the same parts.

It is one of the objects of the present invention to provide a buckle which will be locked by the application of the suspender-end, but which is capable of being adjusted
45 to shorten the suspender without being released from said end, and the simplest and most convenient form of the buckle for securing this object is shown in Fig. 1, wherein—

50 A indicates the buckle-frame, preferably formed of wire, and has a rectangular por-

tion through which the webbing passes over a cross-bar B, and a depending loop-extension for the engagement of the suspender-end, said frame being substantially flat—that is to
55 say, every part of the same occupies the same plane and the cross-bar B for the sake of convenience, in that it permits the webbing C to pass more readily, and the whole to lie perfectly flat when locked is bent out and lies to
60 one side of the plane of the buckle-frame, as shown more particularly in Fig. 2, in which it will be seen the cross-piece passes straight across with its inner face in a straight line between the outer surface of the wire form-
65 ing the frame.

On the top cross-piece of the buckle-frame is pivoted the tongue E, carrying the engaging points or teeth *e*, which pass into or
70 through the webbing. This tongue and the points thereon may be of various constructions; but in the preferred form shown in the figures last above mentioned a piece of wire F, having its central portion formed into a
75 depending loop *f*, adapted to be held in intimate relation with the depending loop of the buckle-frame, preferably by the attaching devices of the suspender-end, as will presently
80 appear, is secured to the top cross-piece by a sheet-metal pivotal piece G, which is bent around the top cross-piece and has an outwardly-extending ear or projection embracing
85 the ends of the wire loop F. The holding points or teeth are preferably formed by the ends of the loop F, which are bent around, as shown in Fig. 3, and given the proper curve
90 to rest against the cross-bar when the two depending loops are brought together, said cross-bar being toothless and practically smooth, permitting the web to slide freely
95 over it when the locking-lever is thrown back.

To give room within the pivotal piece G for the curved parts of the loop F where they
95 bend out to form the holding-points, the ends of the wire forming the buckle-frame are cut off short and the pivotal piece itself forms the top cross-piece at the center.

Where the pivotal piece is extended, it forms a covering-plate for the part of the
100 webbing lying within the rectangular portion of the buckle-frame, and may be ornamented

in any desired manner, the loop, when one is employed, being secured by lugs or ears.

In Fig. 5 the ends of the loop are bent quite similar to those in Figs. 1, 2, and 3; but instead of passing clear down to the cross-piece they are held by ears on the pivotal piece some distance above the cross-piece.

In Fig. 6 the ends of the loop are crossed, and are held by a single ear passing over both, as will be readily understood.

The holding points or teeth, it will be observed, project toward the bottom or attaching loop of the buckle-frame, and therefore hold the web firmly against movement in a direction to release the same, while permitting of its quick and easy adjustment in the opposite direction, there being no teeth on the cross-bar to prevent such movement; but as said teeth are located on the locking-lever and not on the buckle-frame they may be easily and quickly released by throwing the lever up, when the web may be moved in either direction without obstruction.

The loops on the locking-lever and buckle-frame may be of any preferred form, either simple loops or hooks, as shown in Fig. 4, in which instance the strain is brought to bear on the locking-lever as well as on the buckle-frame. In fact, this is so in all the forms shown, as where simple loops are employed a hook is provided on the suspender-end—such, for instance, as shown in Fig. 1, where P indicates the hook, and p the spring-tongue thereof, which prevents the escape of the loops.

It will be particularly noted that the teeth or points on the locking-lever project in the direction of the loop to which the fabric is secured or in the opposite direction to direction of pull when in use.

The buckle may be made very cheaply, and while it is of light appearance and small it will be found strong and durable, all the strain being in the direction of the length of some of the metal portions.

Having thus described my invention, what I claim as new is—

1. In a suspender-buckle, the combination, with the buckle-frame formed of wire with the toothless cross-piece secured thereto, of the locking-lever formed of wire with the loop for the engagement of the co-operating member pivotally connected to the frame and having its ends pointed and turned toward the engaging-loop to form holding-teeth between which and the cross-bar the web is held, substantially as described.

2. In a suspender-buckle, the combination, with the buckle-frame formed of wire, with the toothless cross-piece secured thereto, of the locking-lever formed of wire, with the loop for the engagement of the co-operating member and having its ends turned back to form holding-teeth, and a sheet-metal pivotal piece bent around the buckle-frame and around the base of the locking-lever, substantially as described.

3. In a suspender-buckle, the combination, with the buckle-frame, of the locking-lever formed with the wire loop having its ends turned back and forming holding teeth or points, and the sheet-metal pivotal piece pivotally connected to the buckle-frame and having the lugs or ears embracing the locking-lever, substantially as described.

4. In a suspender-buckle, the combination, with the buckle-frame and locking-lever formed with the wire loop having its ends bent back and forming holding teeth or points, of the sheet-metal pivotal piece surrounding the top piece of the buckle-frame and pivoting thereon, said pivotal piece being extended to form a covering-plate and having ears or lugs embracing the locking-lever to hold the same in place, substantially as described.

CHRISTOPHER C. SHELBY.

Witnesses:

EDWARD R. WEISS,
JAMES G. BLAUVELT.