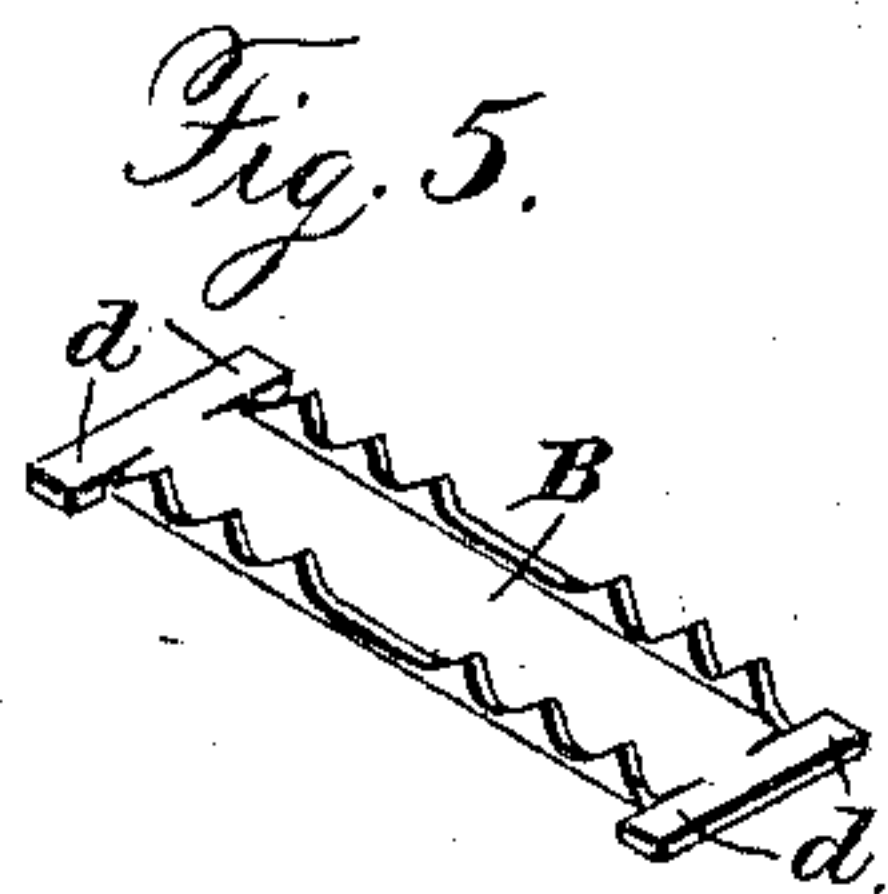
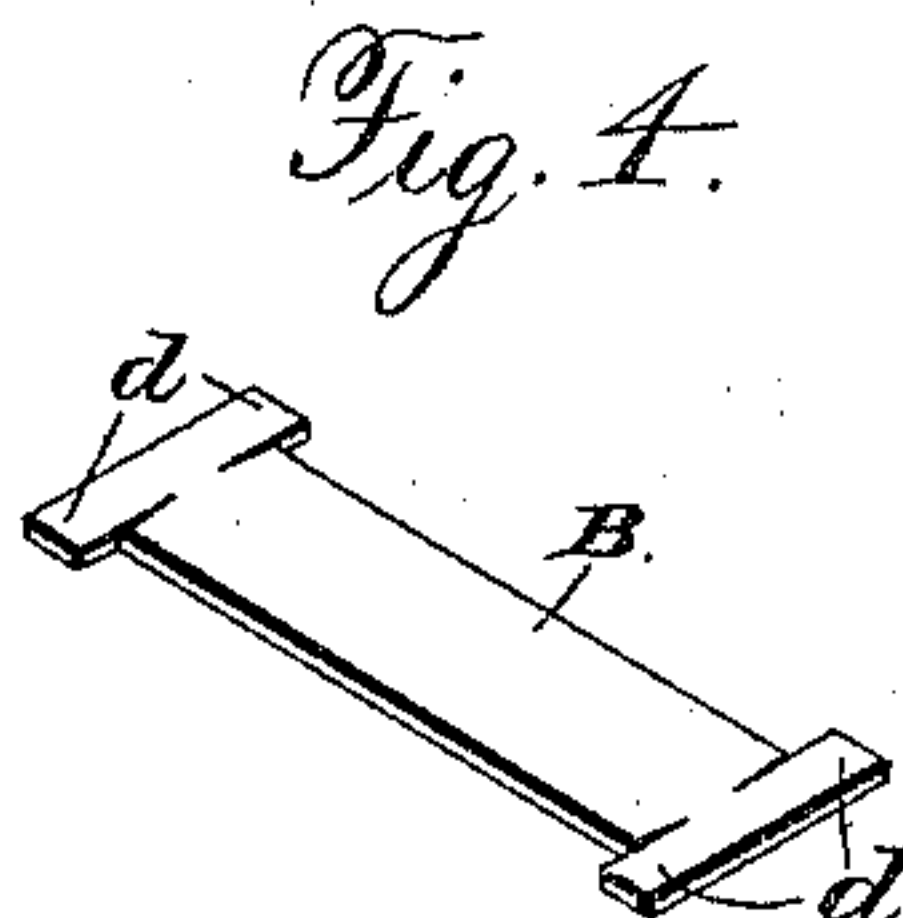
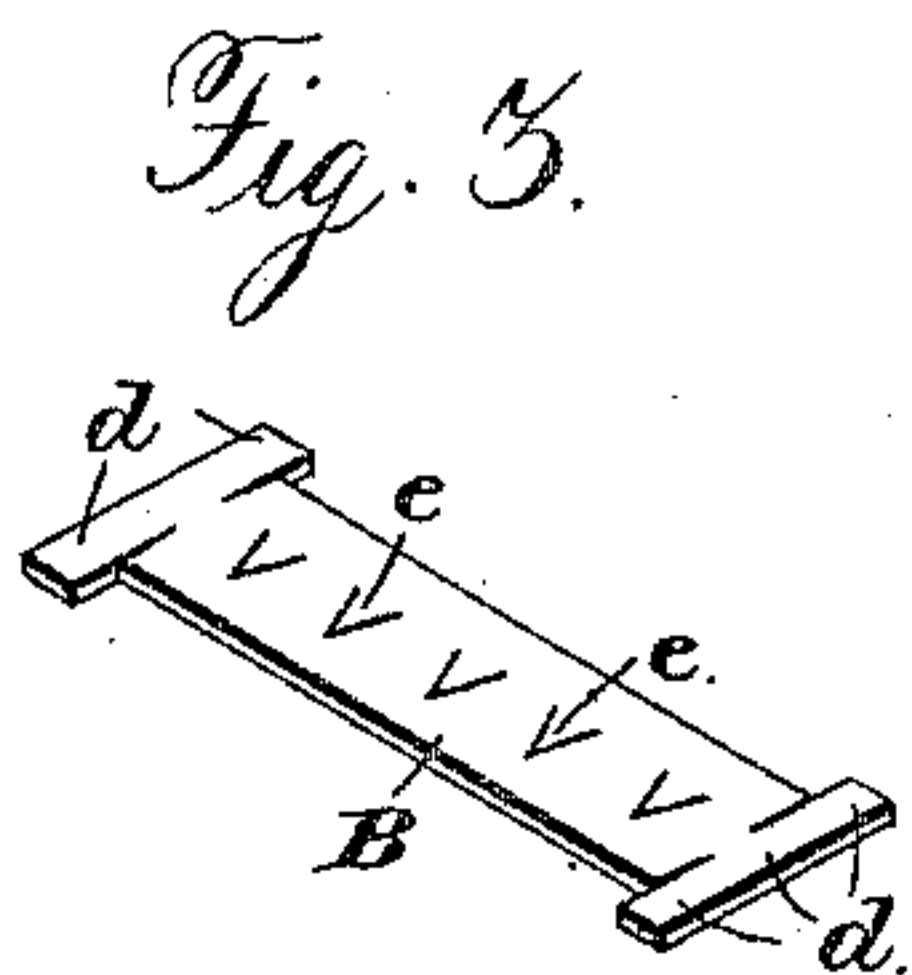
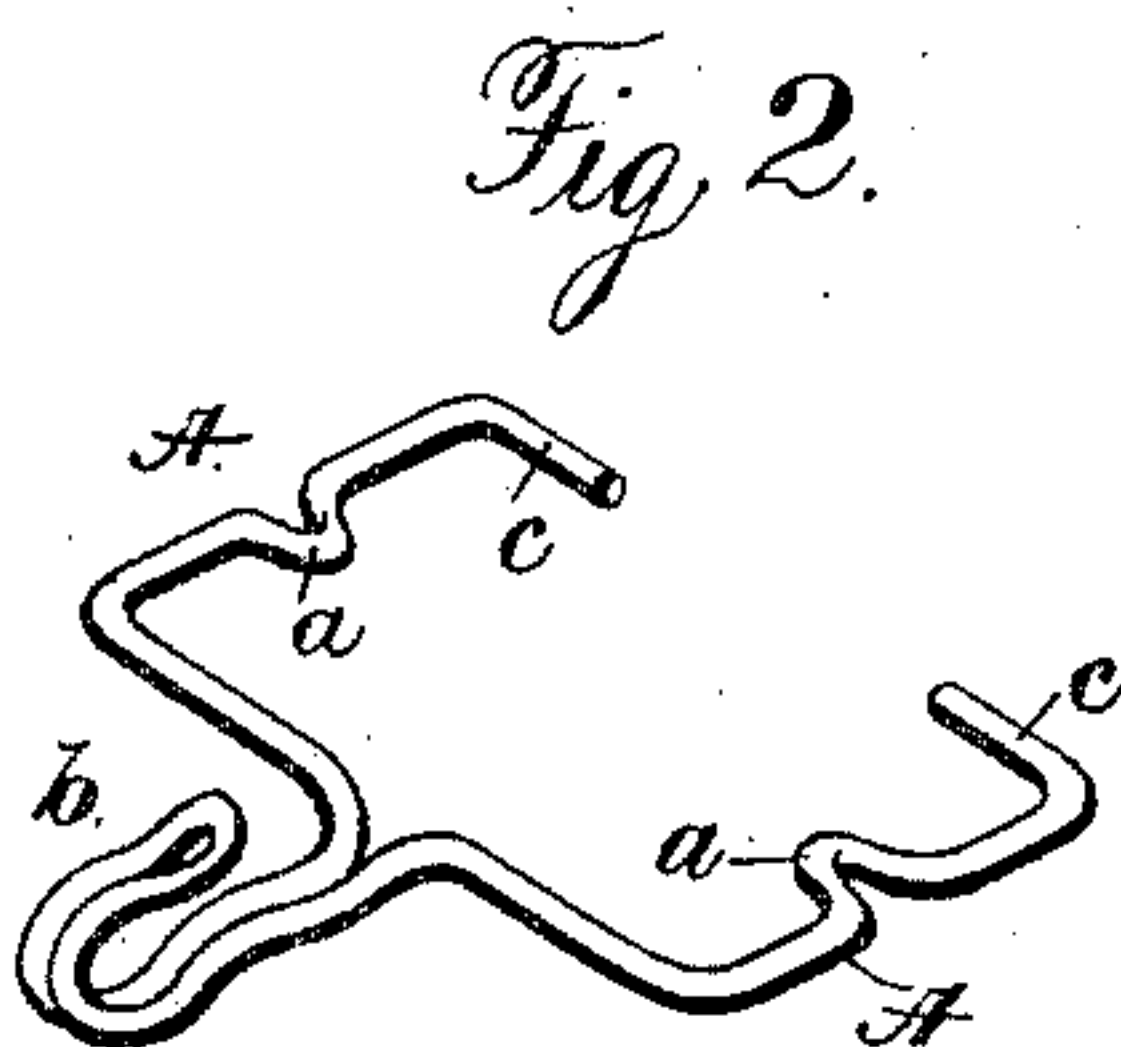
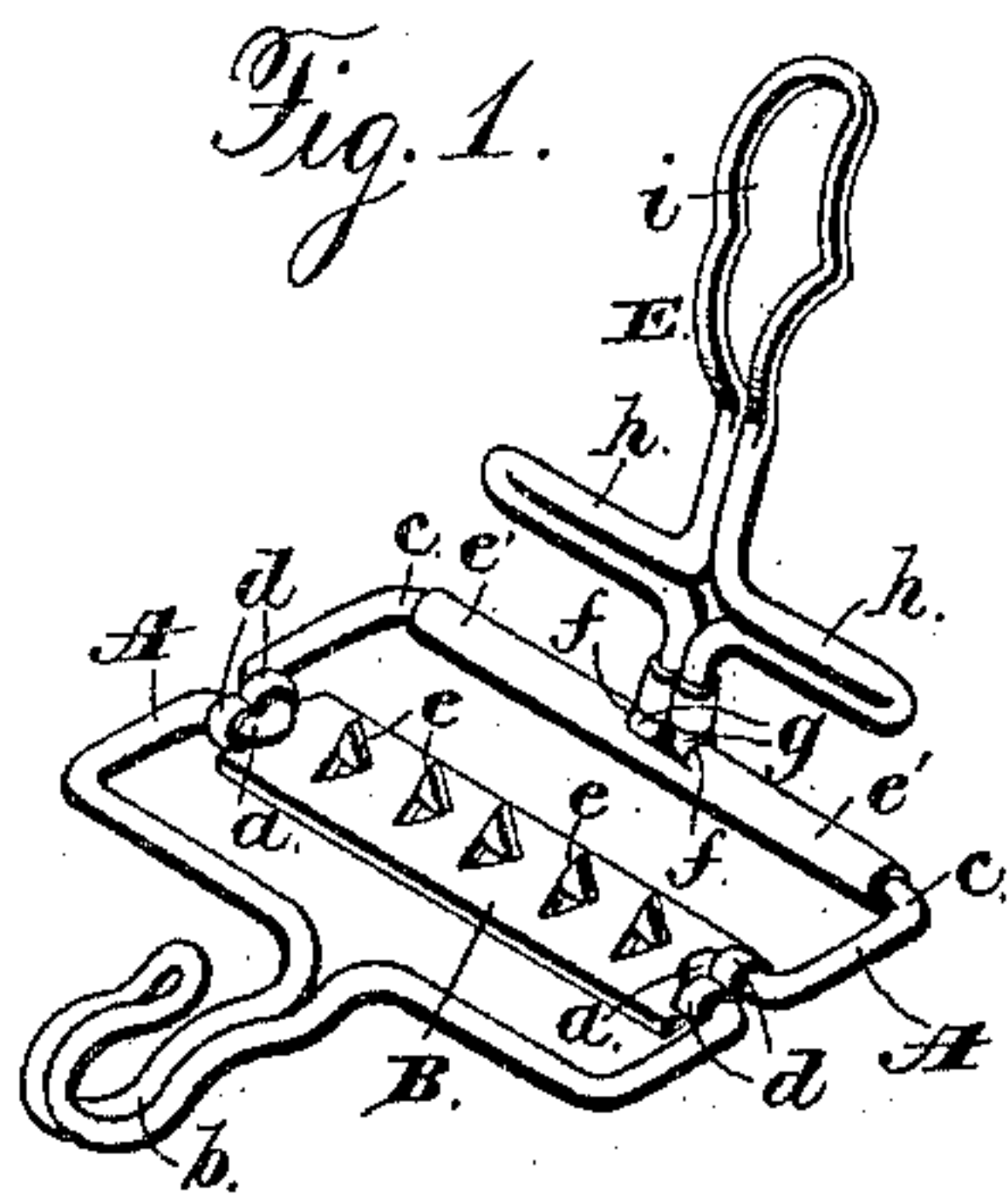


(No Model.)

C. R. HARRIS.
SUSPENDER BUCKLE.

No. 453,113.

Patented May 26, 1891.



Witnesses:
Jas. C. Hutchinson.
G. F. Downing.

Inventor:
Charles R. Harris
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Attorney.

UNITED STATES PATENT OFFICE.

CHARLES R. HARRIS, OF WILLIAMSPORT, PENNSYLVANIA.

SUSPENDER-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 453,113, dated May 26, 1891.

Application filed August 20, 1890. Serial No. 362,486. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. HARRIS, a citizen of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Buckles; 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.

My invention relates to an improvement in buckles, and more particularly suspender-buckles, being designed as an improvement upon that for which reissued Letters Patent 15 were granted to me bearing date November 5, 1889, No. 11,039, this invention having for its object to improve the construction of the cross-bar and its attachment to the frame of the buckle, whereby the strength of the buckle 20 is increased and the assembling of the parts facilitated.

With this object in view the invention consists in a frame having inwardly-projecting portions, and a cross-bar attached at its ends 25 to said inwardly-projecting portions.

It further consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

30 In the accompanying drawings, Figure 1 is a view of a complete buckle embodying my improvements. Fig. 2 is a detached view of the frame. Fig. 3 is a detached view of the blank for forming the cross-bar. Figs. 4 and 35 5 are modifications of the cross-bar.

A represents the frame of the buckle, which is preferably made of wire and having its ends bent inwardly to form lugs or ears *a*. At a point between the ends of the lower longitudinal side of the frame the wire is bent 40 first downwardly and then upwardly to form a hook *b*, the upper longitudinal edge of the frame being cut away to produce projections *c*. Connecting the projections *c* is a loosely-mounted sleeve, which closes the upper edge 45 of the frame and is adapted to receive the swinging portion of the buckle, as presently explained.

The cross-bar B of the buckle, which extends from one end of the frame to the other, 50 is provided at each end with ears *d d*, which,

when the cross-bar is in position on the frame, are bent upwardly or downwardly, as the case may be, and made to embrace the lugs or ears *a* of the frame, whereby said cross-bar is secured in place on the frame. The cross-bar D is made of sheet metal, and may be punched through its center longitudinally to produce a series of teeth *e*, as shown in Fig. 1; or the cross-bar may be left plain, as shown in Fig. 60 4; or it may be turned up at its longitudinal edges, and said turned-up portions may have teeth, as shown in Fig. 5. The sleeve *c'* is provided at its center with perforations *f f* for the reception of the bent upper ends *g g* 65 of the swinging portion E of the buckle, said swinging portion being preferably made of wire and provided with laterally-projecting portions *h h*, adapted to normally lie parallel with the cross-bar B and press the suspender 70 or other strap against said cross-bar. From the laterally-projecting portions *h h* the wire of the swinging frame or portion E is bent downwardly and made to form a loop *i*, adapted to pass over the hook *b*. By thus constructing 75 the buckle the parts may be easily and quickly formed and effectually secured together with the expenditure of but little time and labor.

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

In a buckle, the combination, with a wire frame having a button strap-attaching device and provided on its opposite sides with inwardly-projecting U-shaped horizontal ears, 85 of a cross-bar having a pair of projecting ears at each end, the pair of ears at one end of the cross-bar engaging the two members of one of the U-shaped ears on the frame and the pair of ears at the opposite ends of said bar engaging the two members of the other U-shaped ear, whereby said cross-bar is held 90 against movement, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses. 95

CHARLES R. HARRIS.

Witnesses:

WM. SHERMANN,
HARRY S. MEYER.