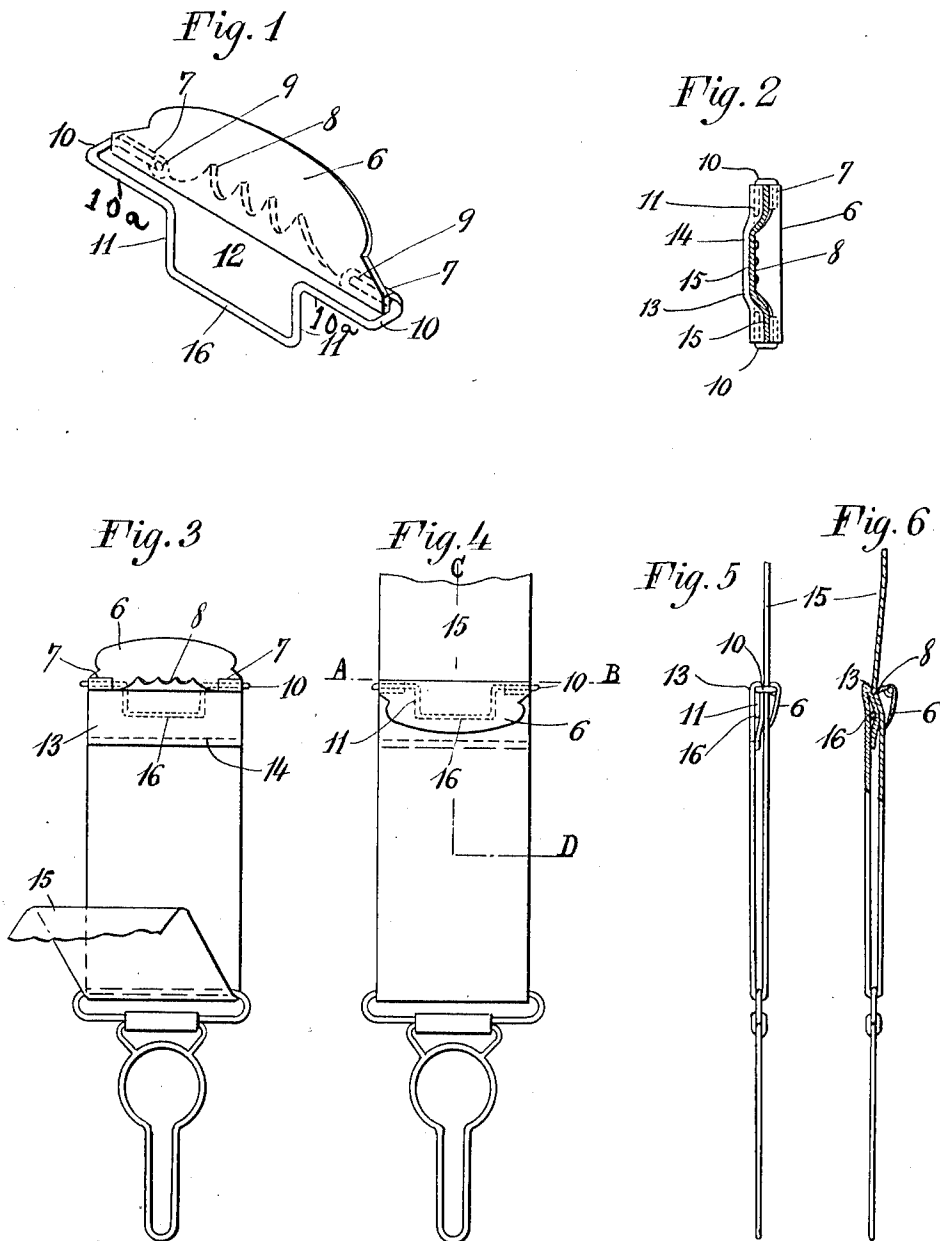


DE VER H. WARNER.
BUCKLE.
APPLICATION FILED DEC. 14, 1910.

1,064,113.

Patented June 10, 1913.



Witnesses:
E. O. La Lay
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UNITED STATES PATENT OFFICE.

DE VER H. WARNER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO WARNER BROTHERS COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

BUCKLE.

1,064,113.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed December 14, 1910. Serial No. 597,196.

To all whom it may concern:

Be it known that I, DE VER H. WARNER, a citizen of the United States, residing at Bridgeport, Fairfield county, Connecticut, have invented certain new and useful Improvements in Buckles, of which the following is a specification.

This invention relates to buckles of the rustless back type and the objects of the invention are to provide a buckle of improved design for clamping the webbing in a novel manner so as to avoid undue thickness at the point of clamping, to pivot the clamping lever to the frame of the buckle so as to clamp the running length of the webbing against the looped member and secure a "bite" upon it without deflecting said running length over any portion of the frame of the buckle and to effect other improvements which will appear hereinafter in the specification.

In the accompanying drawings I have illustrated one embodiment of my invention but I am not to be understood as limiting myself to the precise form shown except as required by the appended claims.

In the drawings, Figure 1 is an enlarged perspective view of the buckle viewing the same from the rear, the buckle being open. Fig. 2 is a plan view of the buckle in closed position with the webbing in place along the line A—B in Fig. 4, the running length of the webbing being shown in section. Fig. 3 is a front view with the webbing partly inserted and the buckle open. Fig. 4 is a front view with the webbing fully inserted and the buckle closed. Fig. 5 is an edge view of Fig. 4 showing the parts under strain as in use, and Fig. 6 is a view similar to Fig. 5 partly in vertical section along the line C—D of Fig. 4 to more clearly illustrate the position of the parts under strain, as is also shown in horizontal section in Fig. 2.

Similar numerals of reference indicate similar parts throughout the several views.

The clamping lever comprises the lever arm 6 and clamping edge 8, here shown in the form of teeth or serrations extending at an acute angle to the lever arm 6. The clamping lever is also provided with ears or sockets 7, 7 in which the back or frame is pivoted as will be described.

The frame of the buckle is made of wire and comprises the pintles or pivots 9, 9, space bars 10, 10, back bars 10^a, 10^a, drop

bars 11, 11 and bottom bar 16. The pintles or pivots 9, 9 are adapted to be inserted in sockets or ears 7, 7 in the usual manner. The pivots 9, 9, space bars 10, 10 and back bars 10^a, 10^a are in substantially the same horizontal plane forming a horizontal loop, substantially at right angles to the plane of the drop bars 11, 11. Bottom bar 16 is in a substantially parallel horizontal plane to the plane of the pivot bars, space bars and back bars. The space 12 between the drop bars is greater than the length of the clamping edge 8 of the clamping lever which is so positioned as to be directly opposite or project slightly into said space 12 when in closed position, the clamping edge then being in substantially the same horizontal plane as that of the bottom of back bars 10^a, 10^a, with the teeth or serrations of the clamping edge projecting downward at an acute angle to said plane.

To web the buckle, one end of the webbing as 13 is passed from rear to front over back bars 10^a, 10^a and secured by stitches 14. The other end or running length of the webbing, 15, is passed up through the loop between the turned over end 13 and the clamping lever. When the clamping lever is closed and the parts placed under strain as in use, the outer edges of the running length 15 of the webbing are substantially vertical as shown in Fig. 5 and without any deflection over either the back bars 10^a, 10^a or bottom bar 16, while the central portion of said running length is caused to secure a "bite" against the loop member of the webbing by being clamped against the unsupported central portion of the loop, the relationship of the webbing and clamping edge to the back or frame of the buckle being clearly shown in Figs. 2 and 6.

I do not restrict myself to any of the details shown or described further than the scope of the claims demand but

What I claim and desire to secure by Letters Patent is:

1. In a buckle, a frame comprising a front bar, space bars and back bars lying in substantially the same horizontal plane and forming an open loop at each end of the frame, drop bars at the inner ends of the back bars spaced from each other and extending substantially at right angles to said back bars and to the plane of said loops and a bottom bar parallel to the plane of said

loops and connected to the lower ends of said drop bars, and a lever pivoted to said front bar and comprising a lever arm and a clamping edge extending at an acute angle thereto and of less length than the space between the drop bars.

2. The combination of a buckle including a frame comprising a front bar, space bars and back bars lying in substantially the same horizontal plane and forming an open loop at each end of the frame, drop bars at the inner ends of the back bars spaced from each other and extending substantially at right angles to said back bars and to the plane of said loops and a bottom bar parallel to the plane of said loops and connected to the lower ends of said drop bars, and a lever

pivoted to said front bar and comprising a lever arm and a clamping edge extending at an acute angle thereto and of less length than the space between the drop bars, with a webbing having one end passed over the back bars, drop bars and bottom bar and the other end passed upward through the loops and between said first named webbing end and the clamping edge of the lever.

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

DE VER H. WARNER.

Witnesses:

W. PERCY ALLEN,
LUCIEN T. WARNER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."