(No Model.)

W. R. BRUNER.

HARNESS BUCKLE.

No. 463,774. Patented Nov. 24, 1891.

Fig. 1

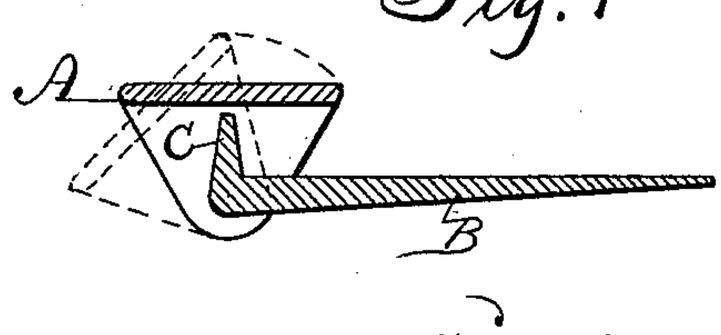


Fig. 2

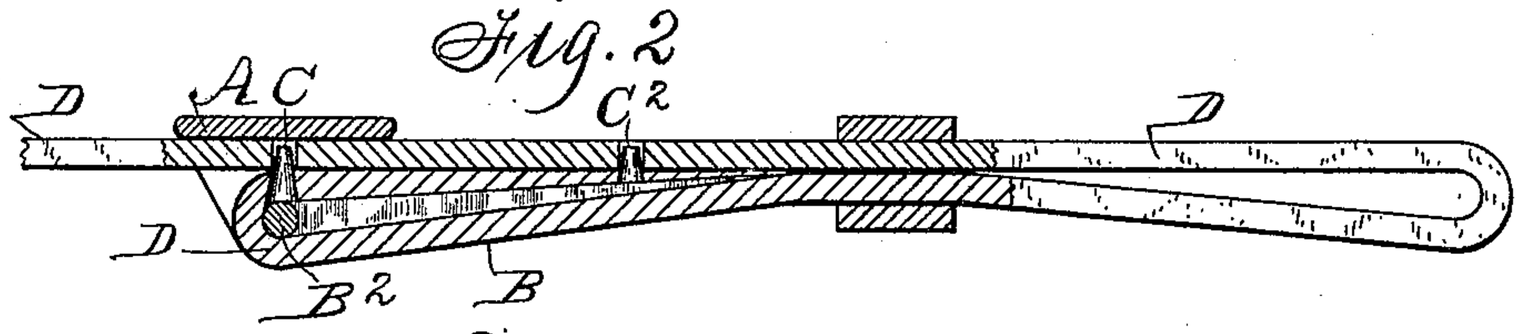


Fig. 3

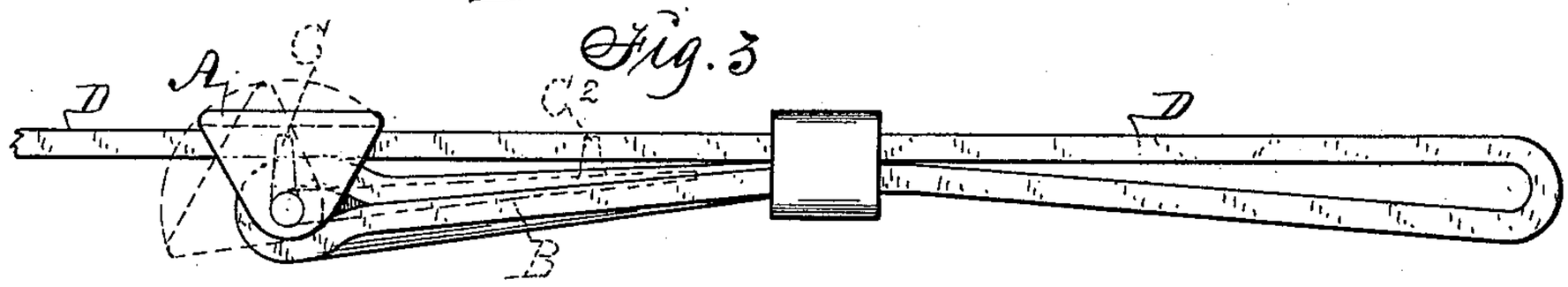
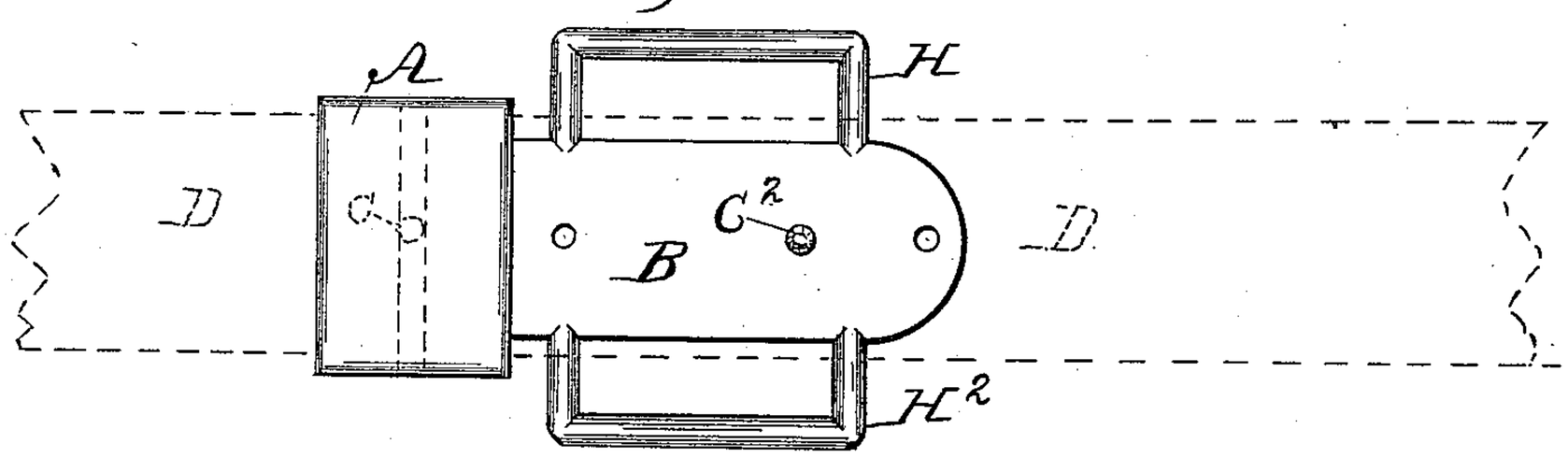


Fig. 4



Witnesses:
W. P. Smith.
R. H. Orwig.

Inventor: William R. Bruner,
By Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

WILLIAM R. BRUNER, OF EXIRA, IOWA, ASSIGNOR OF ONE-HALF TO HENSHAW & SICKLES, OF SAME PLACE.

HARNESS-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 463,774, dated November 24, 1891.

Application filed January 24, 1891. Serial No. 378,864. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. BRUNER, a citizen of the United States of America, and a resident of Exira, in the county of Audubon and State of Iowa, have invented an Improved Harness-Buckle, of which the following is a specification.

My invention consists in the construction and combination of a frame and a plate, as hereinafter set forth, pointed out in my claim, and illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of my complete device. Fig. 2 is a view showing a modified form of my device applied, portions being broken away to reveal the interior parts. Fig. 3 is a side view showing my complete device applied to a strap. Fig. 4 is a plan view showing a modification of my device adapted for a trace-buckle.

A represents a three-sided frame made of metal bent into the form shown, and perforated through its end portions.

B represents a metal plate having pivots B^2 formed thereon and adapted to enter and rotatively operate in the perforations in the frame A. This plate may be provided with perforations to admit rivets to attach a strap thereto or not, at the option of the user.

C represents a tongue of common form formed integral with and projecting upward from the plate B between the pivots B^2.

D represents a leather strap, one end of which is secured to the plate B and the other end portion confined between said plate and the broad portion of the frame A by means of the tongue C, which engages in a perforation therein. The end of the leather strap that overlies the under side of the metal strap or plate B and is doubled around its pivoted end has a perforation that admits the tongue C, and when the other end of the leather strap is connected with the same tongue C by means of a perforation in the leather, the flat and wide top portion will cover the end of the tongue, and the perforated portion of the leather strap and the buckle will thus be securely and adjustably and detachably connected with the strap without riveting or sewing.

In the modification shown in Fig. 3 the plate B is provided with two tongues F and F^2, and in Fig. 5 the plate B has a pair of loops H and H^2, formed integral therewith, adapting it for use as a trace-buckle.

In the practical use of my invention one strap should be attached to the plate B and the other strap inserted between the broad part of the frame A and said plate in such a manner as that the tongue C will enter a perforation therein. To insert or remove the strap from the buckle, said strap must be bent and the frame A brought into the position indicated by dotted lines in Fig. 4.

I am aware a curved and open buckle-frame has had bearers at its parallel sides and a roll and plate hinged thereto, and a tongue on the roll to project upward to engage a strap extended through the curved frame. I am also aware that a plate has had a depression in its under side and an eccentric pivoted to its sides to clamp a strap and press it into the depression or groove in the under side of the frame; but my manner of constructing a buckle complete in two parts, so that the smooth-surfaced top plate of the frame will cover and conceal the tongue on the part hinged thereto, and also cover a portion of a strap that is perforated and extended under the top of the frame, is novel and advantageous.

I claim as my invention—

An improved buckle comprising a flat plate B, having two laterally-projecting pivots B^2 at one end and a laterally-projecting loop upon each side near the opposite end, one side of said plate being provided with two pins C and C^2 projecting therefrom, one of the pins C being located at the end having the pivots and the other one C^2 being near the other end, and a flat plate A, having triangular-shaped ends bent at right angles to the plate and provided with a perforation adapted to engage with and swing upon the pivots B^2, said plate B being adapted to be inclosed within the short end of the loop of the strap to which the buckle is secured, and the pins C and C^2 being adapted to project through said covering and to extend into holes in the main portion of said strap, substantially as described.

WILLIAM R. BRUNER.

Witnesses:
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