

H. C. WARD.
TUG-BUCKLE.

No. 177,596.

Patented May 16, 1876.

Fig. 1.

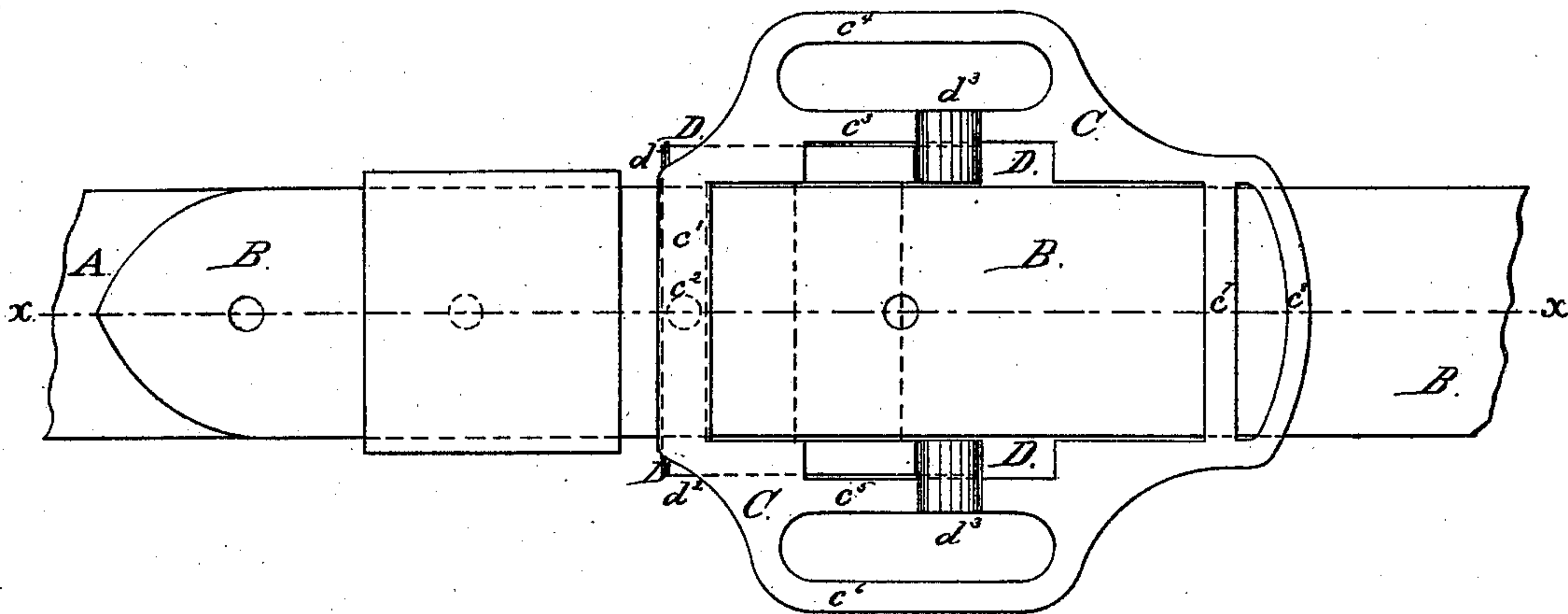
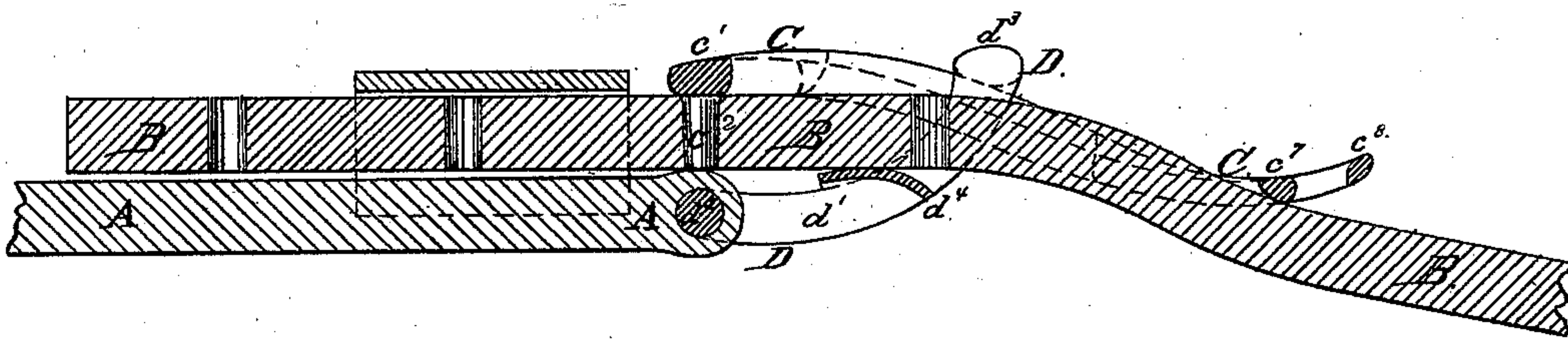


Fig 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HERBERT C. WARD, OF WILLMAR, MINNESOTA.

IMPROVEMENT IN TUG-BUCKLES.

Specification forming part of Letters Patent No. **177,596**, dated May 16, 1876; application filed March 13, 1876.

To all whom it may concern:

Be it known that I, HERBERT C. WARD, of Willmar, in the county of Kandiyohi and State of Minnesota, have invented a new and useful Improvement in Tug-Buckle, of which the following is a specification:

Figure 1 is a face view of my improved buckle, shown as applied to a hame-tug and tug. Fig. 2 is a longitudinal section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved tug-buckle, which will enable the tug to be conveniently adjusted, and will take the most of the draft-strain off the tongue, so that there will be no danger of the tongue-holes tearing out.

The invention consists in an improved buckle formed of the frame, provided with the straight tongue, the loops, and the notches, and the bail, provided with the lugs and the cross-bar, to adapt it for use in connecting a tug and hame-tug, or other straps, as hereinafter fully described.

A represents the hame-tug. B represents the tug. C represents the buckle-frame, and D the bail. Upon the under side of the front cross-bar *c*¹ of the frame C is formed a straight tongue, *c*², which passes through a hole in the tug B. Upon the upper side of the bar *c*³ of the frame C is formed a loop, *c*⁴, to receive the saddle-strap. Upon the lower side bar *c*⁵ is formed a loop, *c*⁶, to receive the belly-band strap, and upon the rear cross-bar *c*⁷ is formed a loop, *c*⁸, to receive the breeching. Upon the

inner edges of the side bars *c*³ *c*⁵ of the frame C are formed long notches *c*⁹, to receive the arms *d*¹ of the bail D, to the forward cross-bar *d*² of which the hame-tug A is attached. Upon the ends of the arms *d*¹ are formed outwardly-projecting lugs *d*³, to rest and slide upon the side bars *c*³ *c*⁵ of the frame C. Upon the middle part of the arms *d*¹ of the bail D is formed a cross-bar, *d*⁴, the face of which is rounded off, and which rests against the under side of the tug B.

With this construction when the draft-strain comes upon the buckle the bail D slips forward, and the tug is clamped between the cross-bar *d*⁴ of the bail D and the front cross-bar *c*¹ of the frame C, thus relieving the tongue from the most of the draft-strain, the principal use of the tongue *c*² being to prevent the tug from slipping when the draft-strain is being applied to the buckle, and to prevent the said tug from working loose when there is no draft-strain upon the said buckle.

Having thus set forth my invention, I claim as new and desire to secure by Letters Patent—

The combination, with hame-tug A, of the buckle-frame C and bail D, the former provided with a tongued bar, *c*¹, and notched side bars *c*³ *c*⁵, and the bail D, provided with arms *d*¹, lugged bar *d*² *d*³, and cross-bar *d*⁴, all constructed and arranged substantially as and for the purpose specified.

HERBERT CLIFF WARD.

Witnesses:

JOHN LUCAS,
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