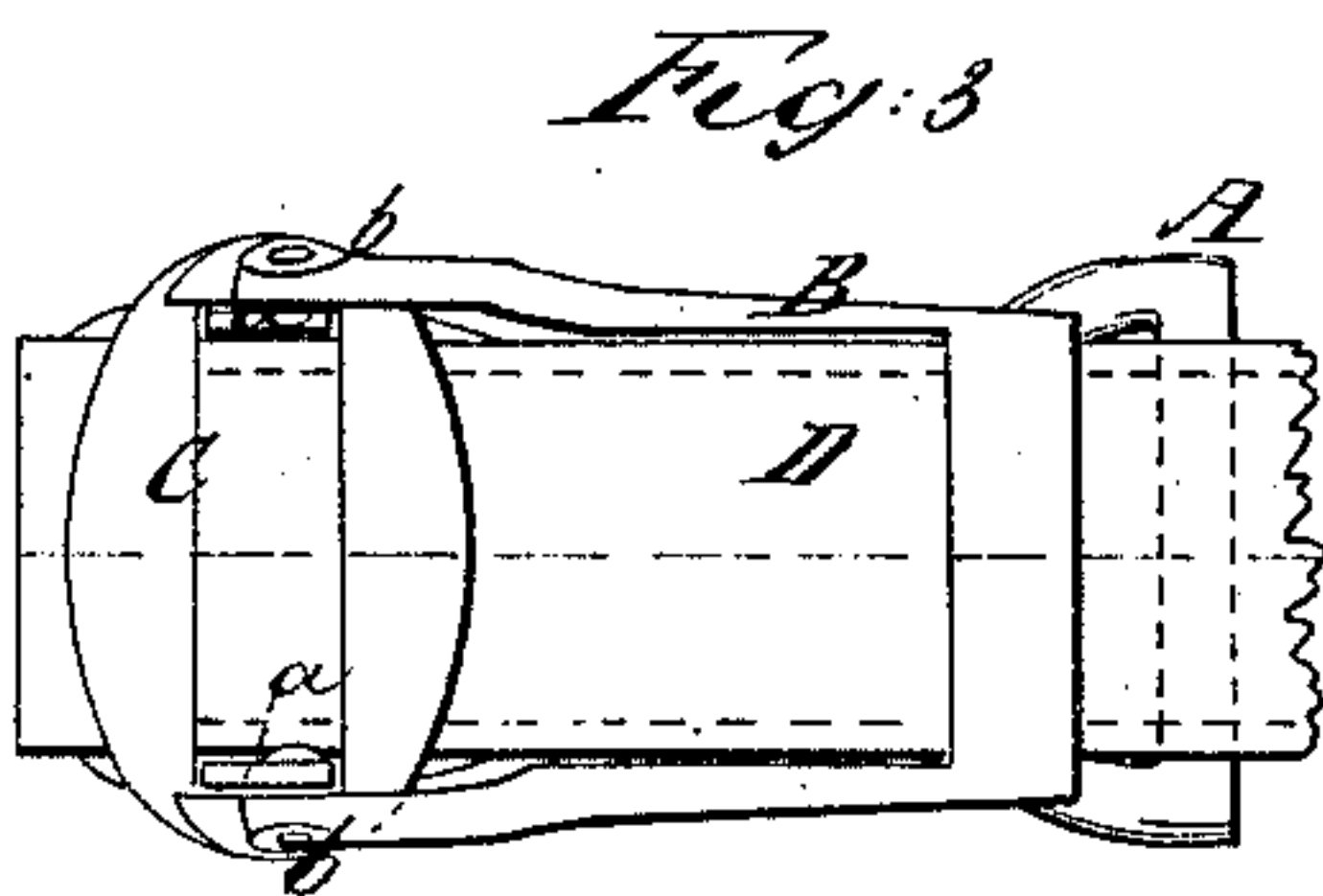
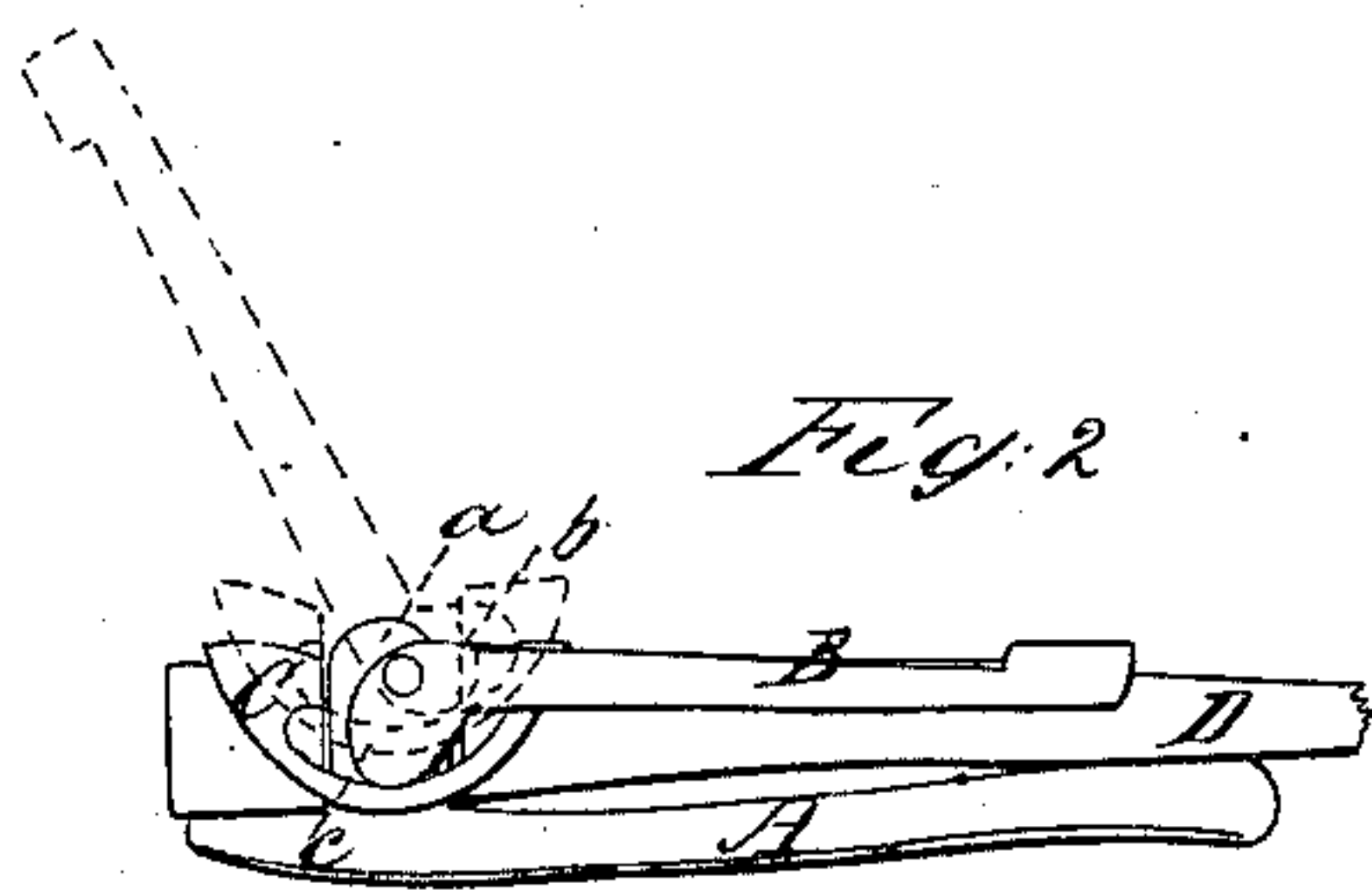
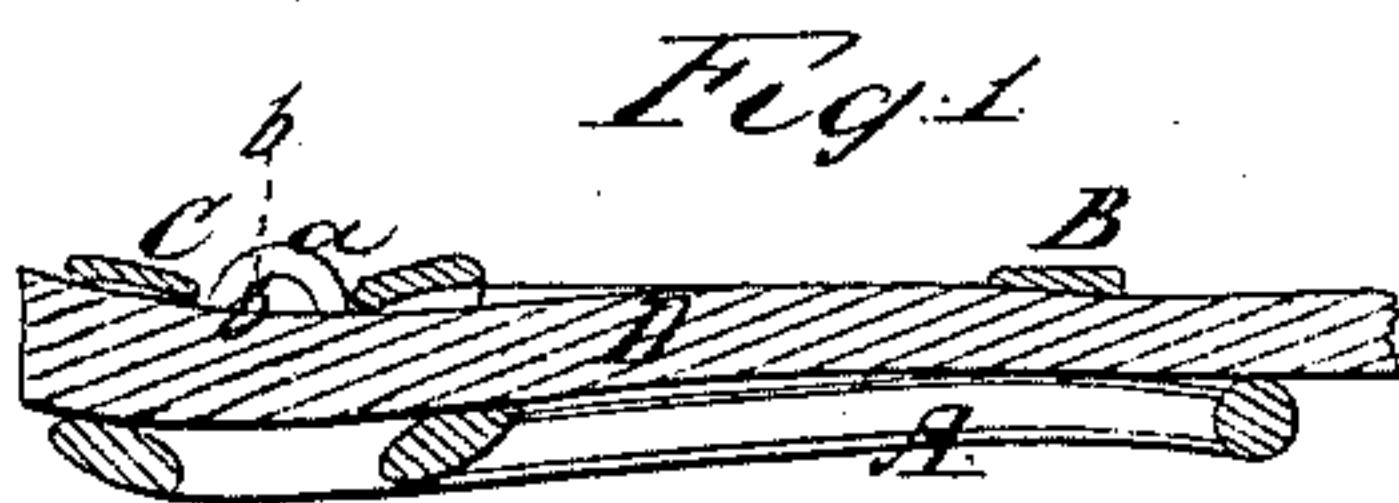


*L.D. Cowles,*

*Harness Buckle,*

*No. 44,786,*

*Patented Oct. 25, 1864.*



*Witnesses*  
*J. W. Coombs*  
*Henry Morris*

*Inventor*  
*L. D. Cowles*  
*per Munroe*  
*Attys*

# UNITED STATES PATENT OFFICE.

L. D. COWLES, OF ARMADA, MICHIGAN.

## HARNESS-BUCKLE.

Specification forming part of Letters Patent No. 44,786, dated October 25, 1864.

*To all whom it may concern:*

Be it known that I, L. D. COWLES, of Armada, in the county of Macomb and State of Michigan, have invented a new and Improved Buckle or Clasp for Harness-Tugs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable any person skilled in the art to make and use the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention taken in the line *xx*, Fig. 3, the device being represented in a closed state, so as to grasp or clamp the leather or strap; Fig. 2, a side view of the same; Fig. 3, an outer view of the same.

Similar letters of reference in the several figures indicate corresponding parts.

This invention consists in the employment or use of a stirrup and a lever-frame provided with eccentrics and attached to the frame or body of the buckle, all being arranged in such a manner that the leather or strap may be firmly secured, and also readily taken up or let out, as occasion may require, no holes being required to be made in the leather or strap, as is the case with the ordinary tongue-buckle, and which greatly weakens the strap.

A represents the body or main portion of the buckle or clasp, which is a simple frame having the tug attached to one end of it. This frame is provided at each side with a lug or projection, *a*, to which a lever-frame, B, is attached by pivots *b*.

The frame B is provided at each end below the pivots *b* with eccentrics *c c*, one of which is shown clearly in Fig. 2. These eccentrics are represented as being at the outer sides of

lugs or projections *a*, but they may be at inner side, if desired.

C is a stirrup, which is in the form of a ring or link, and is fitted over the lugs or projections *a a*, with its ends underneath the eccentrics *c c*, so that the latter may act or operate upon the stirrup.

The leather or strap D passes between the body or main portion of the buckle and the stirrup C, and is firmly clamped by pressing the lever-frame B down upon D, the eccentrics *c c* by this movement of the lever-frame forcing the stirrup C firmly against D, causing it to be tightly clamped between the body of the buckle and C. The leather or strap D is released simply raising the lever-frame B, as shown in Fig. 2.

By this arrangement it will be seen that the eccentrics, as well as the ends of the stirrup C, extend down by the sides of the lever-frame, and consequently admit of the buckle being quite thin and not at all cumbersome as previously-invented buckles of the same class.

The device may be made plain or ornamented and the leather or strap D may not only be firmly secured or clamped but also readily taken up and let out as may be required.

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

The frame A, in connection with the stirrup C, and the lever-frame B, provided with the eccentrics *c c*, all arranged to operate in the manner substantially as and for the purpose herein set forth.

Witnesses:

N. PERRY,  
H. H. SPENCER.

L. D. COWLES.