L. D. Corles,

Harness Buckle,

No. 44,787. Patented Oct. 25, 1864.

Fig. 1.

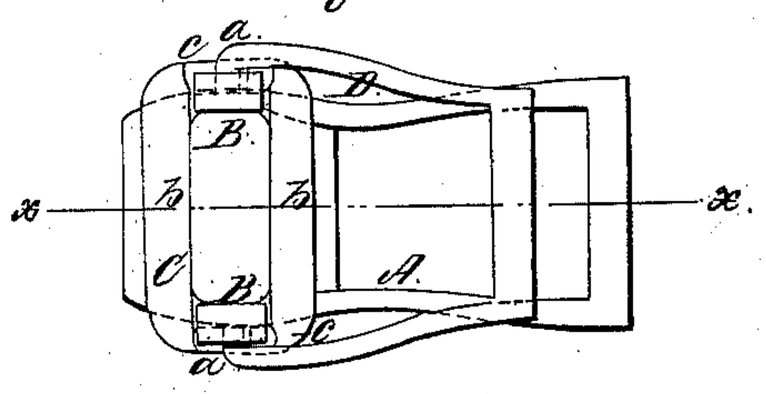


Fig. 2.

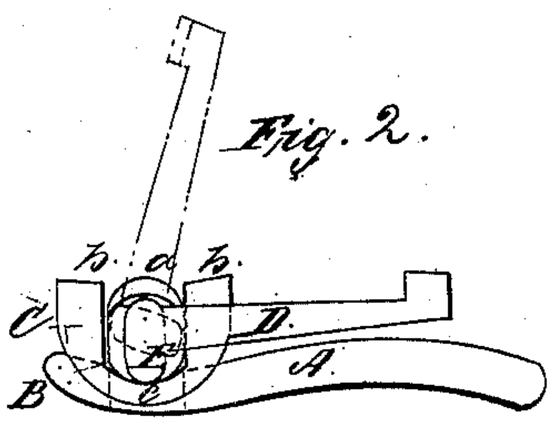


Fig. 3.

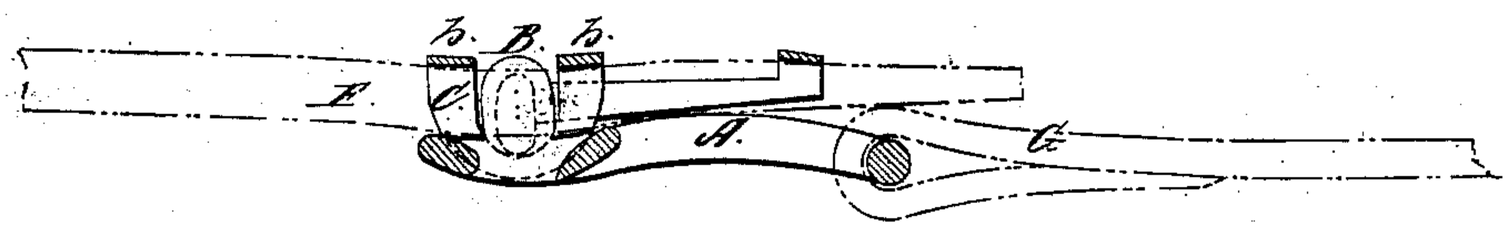
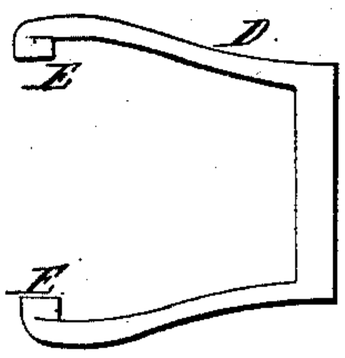


Fig. 4.



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UNITED STATES PATENT OFFICE.

L. D. COWLES, OF ARMADA, MICHIGAN.

IMPROVEMENT IN BUCKLES FOR HARNESSES, &c.

Specification forming part of Letters Patent No. **41,787**, 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 for Harnesses and for other Purposes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an outer or face view of my invention; Fig. 2, a side view of the same; Fig. 3, a longitudinal section of the same, taken in the line *x x*, Fig. 1; Fig. 4, a detached view of the cam-lever frame pertaining to the same.

Similar letters of reference indicate like parts.

This invention consists in using, in connection with the frame or body of the buckle, a stirrup and cam-lever frame, arranged in such a manner that the strap may be very readily taken up and let out and a buckle obtained without any drilling or riveting whatever.

To enable others skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the frame or body of the buckle, which may be constructed in any proper or desired form, and provided at each side, near one end, with a lip, B, said lips projecting at right angles from the frame or body A and parallel with each other. Each lip B is provided at its outer end with a flange or projection, *a*, and these flanges extend outward from the lips at right angles.

C is a stirrup, of loop form, and may be described as being composed of two parallel bars, *b b*, connected by rounded and depressed ends *c c*, the latter extending down at the outer sides or edges of the frame or body A.

D is a lever-frame, the shape of which is shown clearly in Fig. 4. At each end of this frame there is a cam, E, the shape of which is shown in Fig. 2, and these cams are fitted between the flanges *a* of the lips B and the depressed ends *c* of the stirrup C, as shown clearly in Fig. 2.

The frame or body A, with its lips B and flanges *a*, are all cast in one piece. The stirrup C is also cast in one piece, as well as the lever-frame D and cams E E, the latter being sprung in proper place between the flanges *a* of the lips B and the ends *c* of the stirrup.

From the above description it will be seen that when the lever-frame D is raised, as shown in red in Fig. 2, the strap F shown may be readily slipped between the stirrup and frame or body A of the buckle, and by pressing the lever-frame D toward A the cams E E will force the stirrup C in close contact with strap F, firmly clamping the same between the stirrup C and the body or frame A. The other strap, G, (shown in red,) is attached to the end of A, opposite to the end where the stirrup C is placed or fitted.

Thus it will be seen that by this arrangement all riveting, drilling, &c., are avoided in the construction of the buckle, and consequently a very economical and strong buckle is obtained.

I claim as new and desire to secure by Letters Patent—

The stirrup C and lever-frame D, provided with the cams E E, in combination with the frame or body A, provided with the lips B, having flanges *a* at their outer ends, all being arranged substantially as and for the purpose set forth.

L. D. COWLES.

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