

L. D. Cowles,

Harness Buckle,

Nº 40,912.

Patented Dec. 15, 1863.

Fig. 1

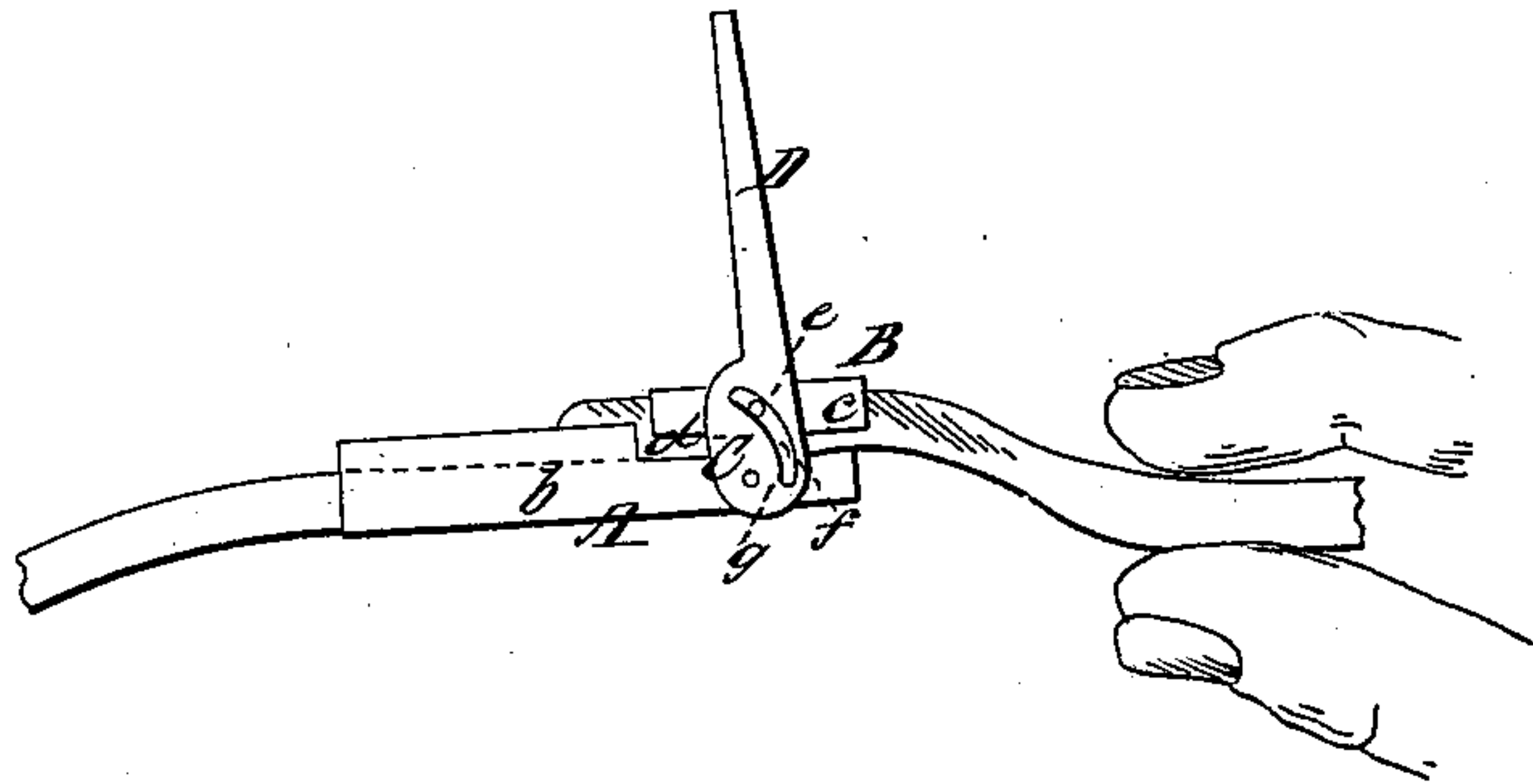


Fig. 2

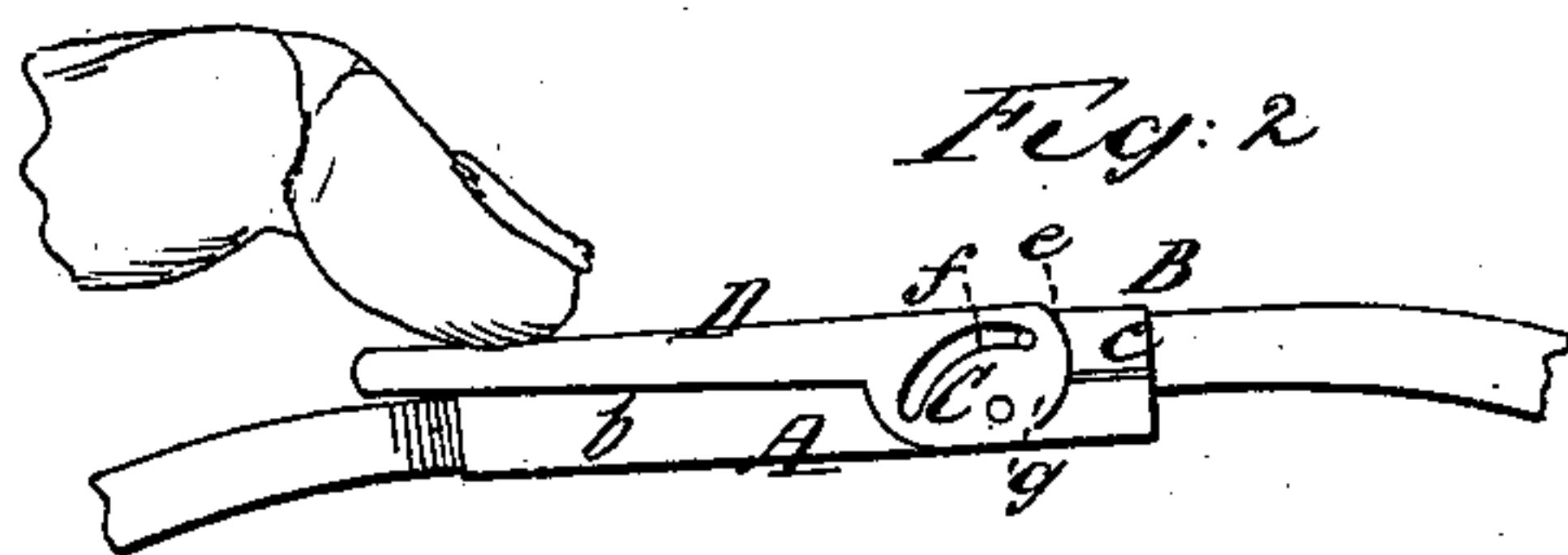
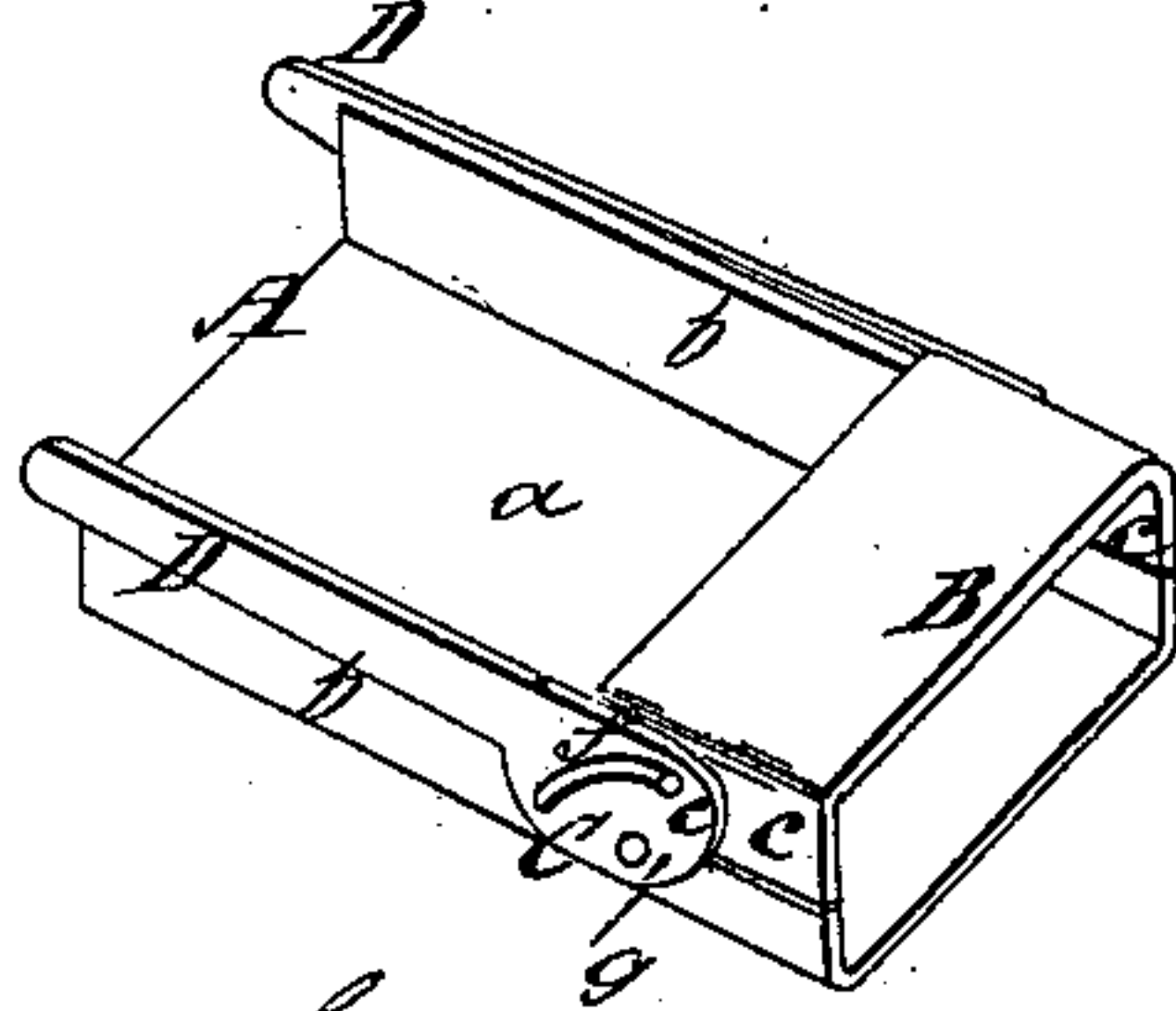


Fig. 3



Witnesses

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UNITED STATES PATENT OFFICE.

L. D. COWLES, OF ARMADA, MICHIGAN.

IMPROVED CLASP FOR HARNESS-TUGS.

Specification forming part of Letters Patent No. 40,912, dated December 15, 1863.

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 Clasp for Harness-Tugs; 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 a side view of my invention in an open state; Fig. 2, a side view of the same in a closed state; Fig. 3, a perspective view of the same.

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

This invention relates to a new and improved clasp to supersede the ordinary tug-buckle for harnesses; and it consists in the employment or use of what may be termed a "box" formed of two parts connected together by means of pins and eccentrics arranged in such a manner that the two parts may be opened and closed with the greatest facility, and one strap firmly secured in the box and connected with the other strap, which is permanently secured to the box, and the strap first-named readily released so as to be "taken up" or "let out" when necessary.

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

A represents one portion of a box, which is composed of a flat plate, *a*, with two parallel sides, *b b*, which are at right angles to *a*. B is the other portion of the box, which is constructed precisely similar to the portion A, but is much shorter, and has its sides *c c* fitted in recesses *d d* made in the sides *b b* of the box A at one end of the same.

To each side *c* of the part B of the box there is attached a pin, *e*, and these pins are fitted in eccentric slots *f f* made in plates C C, which are secured by pivots *g*, one to each side *b* of the part A of the box. The plates

C C are allowed to turn freely on their pivots *g*, and each plate C is provided with a handle, D. The slots *f f* are eccentric with the pivots *g* of the plates C C, as shown in all the figures, and therefore it will be seen that by turning the plates C through the medium of the handles D D the two parts of the box will be forced apart by shoving outward the handles D, as shown in Fig. 1, and the two parts are brought in contact by shoving inward said handles, as shown in Figs. 2 and 3.

When the two parts A B of the box are adjusted in contact, they firmly clasp one strap (shown in red) of the tug, the other strap (also shown in red) being attached or connected in any proper way to the part A. A connection is thereby formed between the two straps, and by shoving outward the handles D the strap within the box will be released, and said strap may be taken up or let out with the greatest facility. By this arrangement the adjustable strap does not require to be perforated with holes, as is the case when the ordinary buckles are used, and said strap will consequently be much more durable.

I would remark that the adjustable strap may be provided with transverse wells, and the box provided with corresponding depressions to receive the swells of the strap, and thereby prevent the casual slipping of the latter. This, however, I do not consider indispensably necessary.

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

The box composed of two parts, A B, connected together by the pins *e* on the part B, fitted in eccentric slots *f f* in plates C C, pivoted to the part A, substantially as shown, to form a new and improved clasp for harness-tugs, as set forth.

L. D. COWLES.

Witnesses:

ROBERT HAMILTON,
FREEMAN KELLEY.