H. H. HARTZELL. Harness Trace Buckles.

No. 143,284.

Patented September 30, 1873.

Fig. 1.

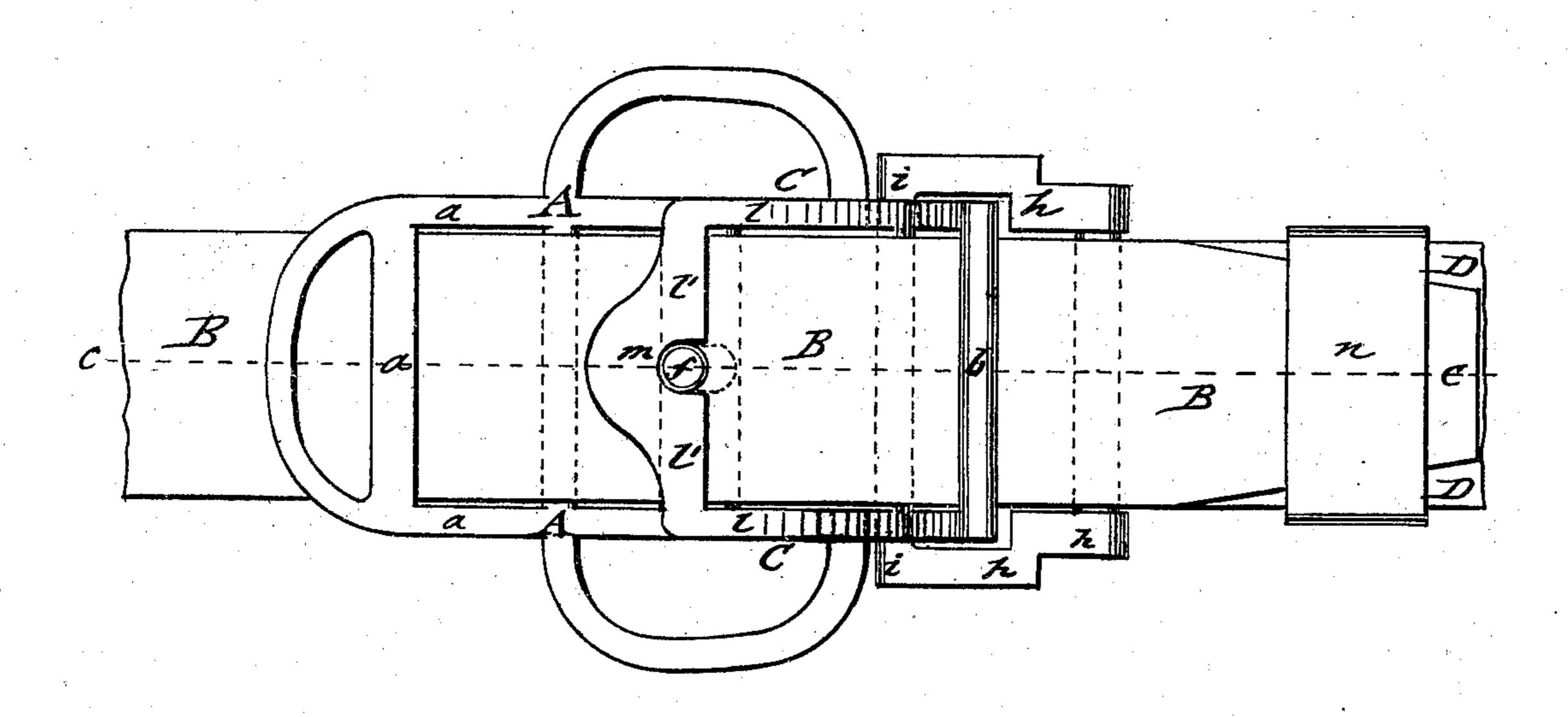
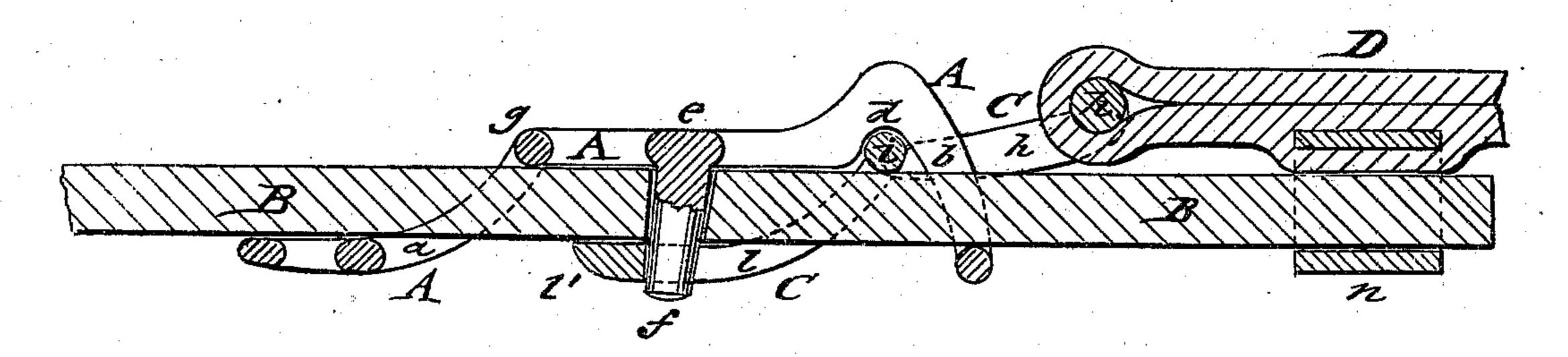


Fig. 2.



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HILLERY H. HARTZELL, OF HOLDEN, MISSOURI.

IMPROVEMENT IN HARNESS TRACE-BUCKLES.

Specification forming part of Letters Patent No. 143,284, dated September 30, 1873; application filed June 7, 1873.

To all whom it may concern:

Be it known that I, HILLERY H. HARTZELL, of Holden, in the county of Johnson and State of Missouri, have invented a new and Improved Harness Trace-Buckle, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my improved buckle; and Fig. 2, a vertical longitudinal section of the same on the line c c, Fig. 1.

Similar letters of reference indicate corre-

sponding parts.

The object of my invention is to produce a strong and durable trace-buckle, which forms a strong and more effective connection of the straps the greater the strain applied to them, being perfectly free from friction or cutting or breaking a trace off. The invention consists in the improvement of trace-buckles, as hereinafter described and pointed out in the claim.

In the drawing, A represents the frame of the buckle, which is provided with an inclined loop, a, at one end, and a loop, b, at the other end, toward the hames. The loop b is curved up toward the same side as loop a, but with greater inclination to frame A, so that an indentation, d, is produced at the turningpoint. A central lateral connecting-piece, e, of frame A carries the upright tongue f of about the height of the end loops a b, which admit the heaviest and thickest traces in use. The lateral connection g forms with loop a the part through which the trace passes, and serves also to strengthen frame A. The trace B is suitably perforated to fit over tongue f. The loop C consists of two parts, of which one part, $h_{\bar{r}}$ connects with hame-strap D, and

has a side expansion to embrace loop b of frame A. The lateral bar i divides the loop C centrally, and from it extends the part l, which has the same width as loop b, and a forward inclination like loop a. Its connecting-bar l' has a circular recess, m, which locks over tongue f. The lateral bar i of loop C bears against indentation d and loop b of frame A, and produces thereby a twofold connection of frame A with loop C. A strain exerted on the trace and hame-strap causes an upward gliding of bar i along the side of loop b, and thereby a tightening of the hold on trace B, and also a firmer pressure of loopbar l' over tongue f. At every pull on the straps the loop C will lock over tongue f, even if it has been detached by a release of the strain. In order to lengthen or shorten the traces, the end of trace B is drawn out of the leather loop n of strap D, so that by dropping hame-strap D the center bar l' is thrown off the tongue f, and loop C inclined in a perpendicular direction toward frame A. By pressing, then, on the trace B from both sides, the same is thrown off tongue f, and may then be easily adjusted and the parts placed in their former position.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

ent—

The combination, with frame A and tongue f, of the loop C, consisting of parts h and l with lateral bar i, and tongue-bar l' with recess m, for the purpose described.

HILLERY H. HARTZELL.

Witnesses:

H. H. Moore, M. W. Mize.