

A. ENGSTRÖM.  
Buckle.

No. 220,063.

Patented Sept. 30, 1879.

Fig. 1.

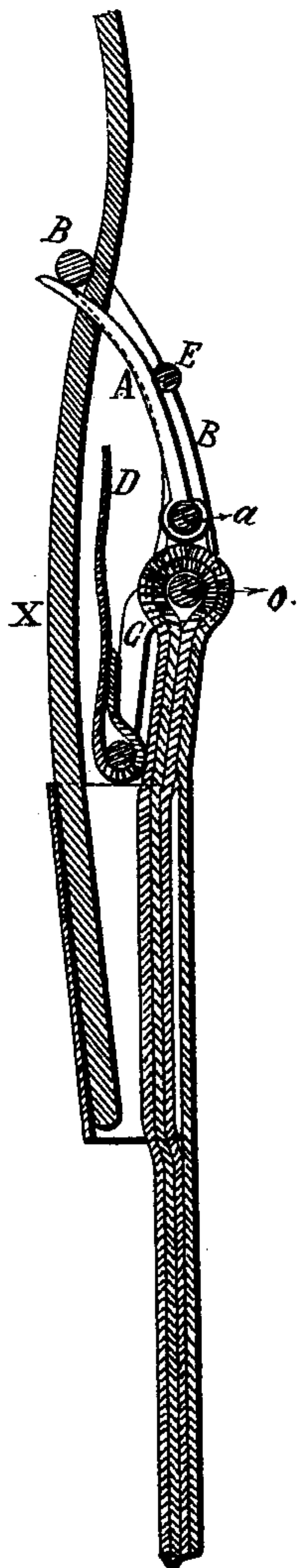


Fig. 2.

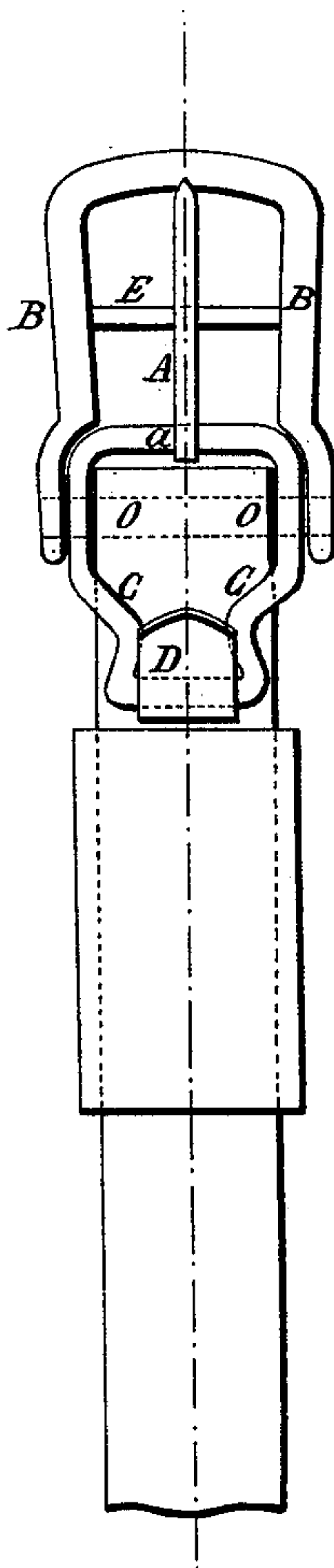
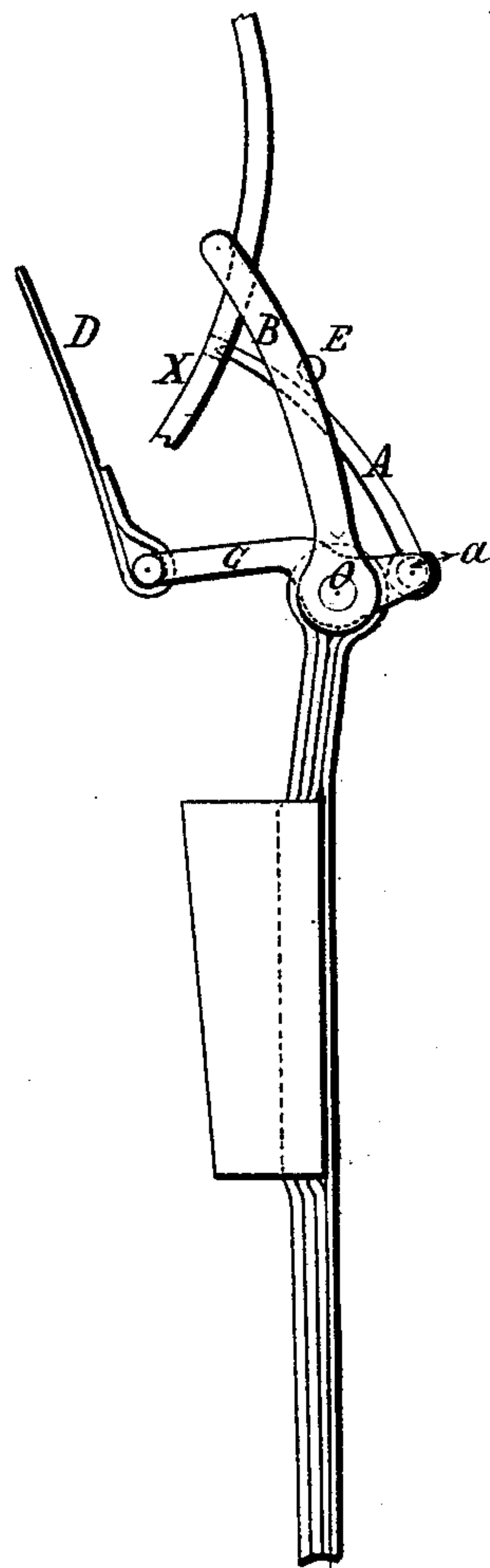


Fig. 3.



Witnesses:  
J. H. Murray  
J. L. Earle

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# UNITED STATES PATENT OFFICE

ADÈLE ENGSTRÖM, OF PARIS, FRANCE.

## IMPROVEMENT IN BUCKLES.

Specification forming part of Letters Patent No. **220,063**, dated September 30, 1879; application filed August 13, 1879.

*To all whom it may concern:*

Be it known that I, ADÈLE ENGSTRÖM, of Paris, France, have invented a new Improvement in Buckles; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, which said drawings constitute part of this specification, and represent, in—

Figure 1, a longitudinal section as applied to the two straps; Fig. 2, a plan or top view as applied to the standing strap; Fig. 3, a side view as when opened for the release of the free strap.

This invention relates to an improvement in that class of buckles used in saddlery and harness work, and commonly known as "harness-buckles."

It often happens that it becomes necessary to unfasten a very tight strap. This is a difficult operation, and often necessitates the cutting of the strap. This is particularly the case in harness-straps when a horse falls down, and the traces or straps of the harness are thereby drawn so tight as to prevent unbuckling, or in leather bands which are drawn very tight—such, for instance, as bands running over pulleys.

By the use of the buckle which is the object of this invention a strap may be unfastened instantly, whatever may be the tension to which it is subjected.

The buckle-frame B is arranged according to the style of ordinary buckles. The tongue A, instead of being hinged on the bar *o*, as is

common, is hinged on one arm, *a*, of a lever, C, which is hinged on the bar *o*. To the other arm of this lever is fixed a strap of leather or other material, D, which allows the lever to be raised, as shown in Fig. 3, when it is desired to unfasten the buckle.

When the buckle is closed, the tongue and strap or lever C are arranged, as seen in Figs. 1 and 2, in substantially the plane of the frame.

If it is desired to unfasten the buckle, commence by raising the end *x* of the free strap, which is always easy; then draw on the strap D, which turns the lever and withdraws the tongue, as seen in Fig. 3, from the hole in which it was held, it sliding on the cross-piece E in such a way that it cannot help being detached from the strap *x*. Whatever may be the tension of the strap, harness, or leather band, the unfastening is very easy and instantaneous.

I claim—

In a buckle, the combination of the frame, a lever, C, hinged to one bar of the buckle, and a tongue or tongues hinged to one arm of said lever, and so that by turning said lever the tongue or tongues are moved in a plane substantially parallel with the plane of the buckle-frame, all substantially as described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

ADÈLE ENGSTRÖM.

Witnesses:

DAVID T. S. FULLER,  
A. CABY.