

D. SCHOENTHALER.
Trace-Buckle.

No. 218,068.

Patented July 29, 1879.

Fig. 1.

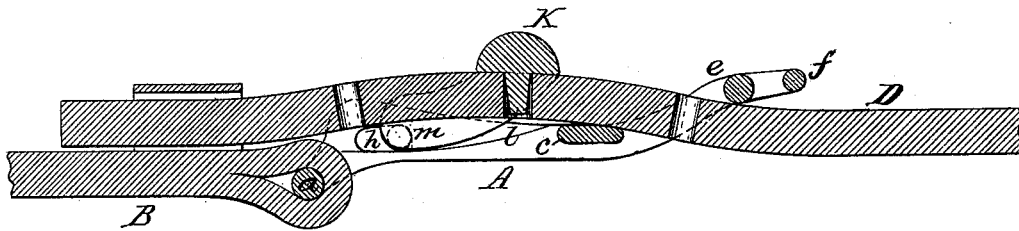


Fig. 2.

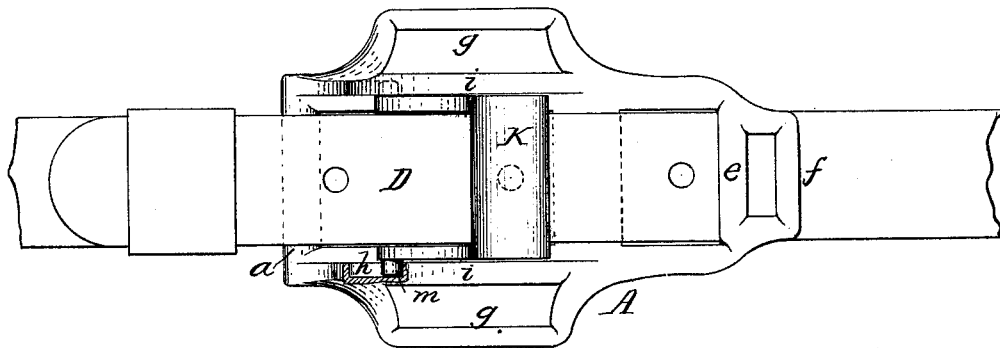
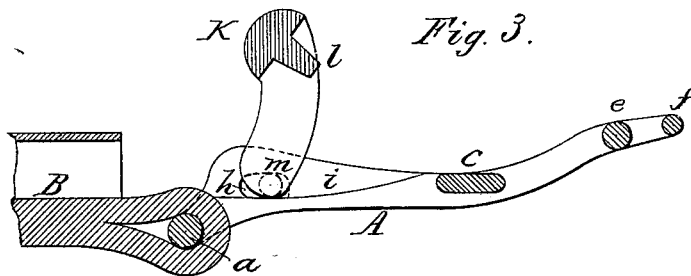


Fig. 3.



Chas. Buchheit.
Eder J. Brady. Witnesses.

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UNITED STATES PATENT OFFICE.

DANIEL SCHOENTHALER, OF WILLIAMSVILLE, NEW YORK.

IMPROVEMENT IN TRACE-BUCKLES.

Specification forming part of Letters Patent No. **218,068**, dated July 29, 1879; application filed February 28, 1879.

To all whom it may concern:

Be it known that I, DANIEL SCHOENTHALER, of Williamsville, in the county of Erie and State of New York, have invented a new and useful Improvement in Trace-Buckles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates more especially to that class of trace-buckles which are provided with a bail pivoted to the buckle-frame, and carrying a tongue which engages in one of a series of holes in the trace.

The object of my invention is the construction of a simple and cheap buckle which will form a perfectly secure connection between the trace and the hame-tug, and which can be readily opened when required.

My invention consists of a trace-buckle having its frame provided with pivot-bearings near its forward end, and having a rearwardly-inclined tongue-bail hung in said bearings so as to swing toward the hame-tug in opening the buckle, whereby the latter is enabled to be readily opened by pushing the trace forward, as will be hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a longitudinal section, and Fig. 2 a top-plan view, of my improved buckle. Fig. 3 is a longitudinal section of the buckle with the bail opened.

Like letters of reference designate like parts in the several figures.

A represents the buckle-frame, of ordinary form; *a*, the forward cross-bar thereof, to which the hame-tug B is attached; *c*, the bed or cross-bar, upon which the trace D rests; *e*, the rear cross-bar, under which the trace passes; *f*, the loop or rear cross-bar, to which the holdback-straps are attached; and *g g*, the side loops.

h h are pivot-bearings or recesses formed in the side pieces, *i*, of the buckle-frame, on their inner sides and near their forward ends, immediately in the rear of the cross-bar *a*, to which the hame-tug is secured.

K represents the swinging tongue-bail; *l*, the tongue, and *m m* the pivots thereof, all formed in one piece.

The bail K is hung with its pivots *m* in the recessed bearings *h* of the buckle-frame, so as to incline backwardly, as clearly shown.

The tongue-bail is readily sprung with its pivots into the recessed bearings *h*, and the latter are preferably made slightly elongated, to permit the bail to slide backward and forward before it swings on its pivots.

When the buckle is closed and the draft is applied to the trace, the tongue-bail K is swung backwardly against the trace, pressing the latter against the bed or cross-bar *c*, and firmly clamping the same between the bed of the buckle-frame and the cross-bar of the bail, thereby relieving the tongue from the greater portion of the strain.

Upon releasing the trace and pushing the latter forward, the tongue-bail K is swung forward on its pivots, thereby withdrawing its tongue from the trace and releasing the latter without requiring the exertion of any particular force for that purpose.

In trace-buckles as ordinarily constructed, the parts are drawn together so tightly that after a time it becomes a matter of considerable difficulty to open the buckle; but in my improved buckle the trace is readily disconnected at any time and under all circumstances.

My improved buckle is very simple in construction, and can be produced at comparatively small expense.

I claim as my invention—

The combination, with the buckle-frame A, provided with recessed pivot-bearings *h h*, arranged near the forward end of the buckle-frame, immediately in the rear of the cross-bar *a*, to which the hame-tug is attached, of the backwardly-inclined tongue-bail K, hung in the recessed bearings *h*, to swing rearwardly in closing the buckle, and forwardly in opening the same, as herein shown and described.

DANIEL SCHOENTHALER.

Witnesses:

EDWARD WILHELM,
JNO. J. BONNER.