

O. A. FIELD.

Improvement in Buckles.

No. 130,119.

Patented Aug. 6, 1872.

Fig. 1.

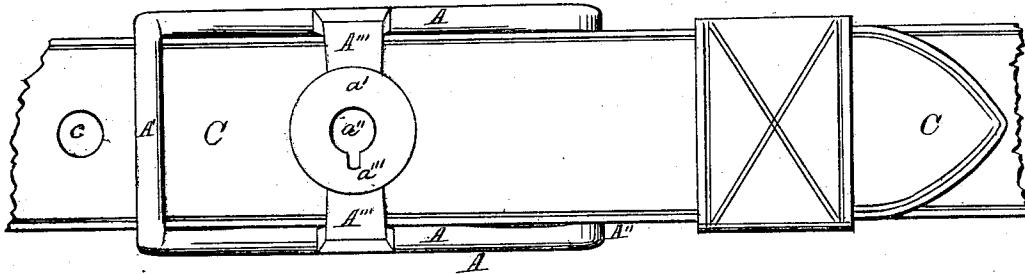


Fig. 2.

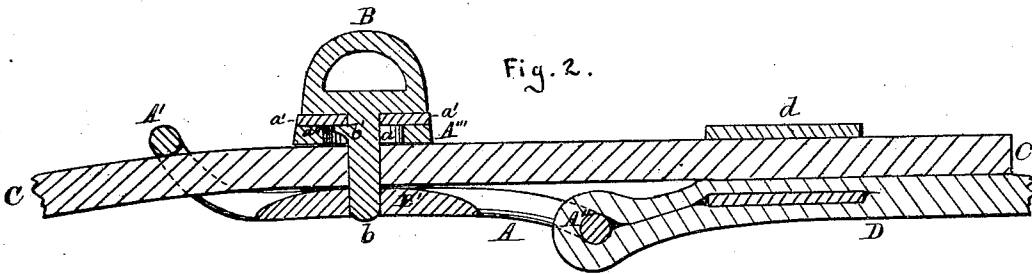
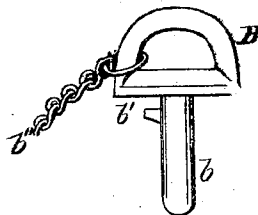


Fig. 3.



Witnesses:

J. A. Lundes
John Williams

Inventor:

Ole A. Field
By N. Crumford
atty.

UNITED STATES PATENT OFFICE.

OLE A. FIELD, OF MINNEAPOLIS, MINNESOTA.

IMPROVEMENT IN BUCKLES.

Specification forming part of Letters Patent No. 130,119, dated August 6, 1872.

I, OLE A. FIELD, of Minneapolis, in the county of Hennepin, in the State of Minnesota, have made certain Improvements in Harness-Buckles, of which the following is a specification:

In the drawing, Figure 1 represents the face of the buckle with the trace and draw-strap attached. Fig. 2 is a longitudinal sectional view of same, and Fig. 3 is a side view of the holding-key tongue.

The object of this invention is to introduce into use a buckle to which the trace or tug-part of a harness may be secured therein or detached therefrom with ease and certainty, as it is well known that in the trace or tug straps of a harness great strength is required, to obtain which the part must be thick, and necessarily stiff and hard to bend, in order to secure it in a common tongue-buckle, and when so secured does not draw straight, as it is clamped in the buckle; hence it is not so strong as where the trace or tug is kept in a direct line; and it consists of the construction of the buckle and its holding-pin, as will be hereinafter more fully described.

A A are the bent longitudinal side bars of the buckle; A' A' the transverse or end bars of the buckle. A''' is a flat center transverse bar, with a hole, *a*, centrally through it. *a'* is a face-plate, fast on or is a part of transverse bar A''', and has the holding-pin or key-hole *a''*, with the slot *a'''*, on one side of the hole *a''*, which is smaller in diameter than hole *a* through transverse bar A''', and is concentric therewith, which forms a projection or recess, *a⁴*, on the under side of plate *a'*. B is the removable key or holding-pin, having the broad head and pin *b*, which pin is long enough to pass through the outer face-plate *a'*, transverse bar A''', and the broad plate B' on the inner side and between the sides A A of the buckle, and has a projecting stud, *b'*, upon one side and near the projecting head, the space between the stud *b'* and head being the same as the thickness of face-plate *a'*; *b''* is a chain; one end is fast to pin B, and the other end to any part of the buckle, and is to prevent the pin B from dropping or being lost when pulled out of its place for any purpose. C is the trace or tug of a harness, with any

number of holes, *c*, therein, to adjust it to any length in the buckle, and through which holes goes the holding-pin *b*, as seen in Fig. 2. D is the draft-strap, extending from the hames of the harness to the buckle, and to which it is attached by looping or doubling around the transverse end bar A'' of the buckle. *d* is a leather loop fast to the draft-strap D, and forming the loop to receive the end of the trace or tug C.

The draft-strap D being secured to the end bar A''' of the buckle, the end of tug or trace C is pushed under the opposite end bar A' and between plates A''' and B' until the hole *c*, that gives the right length to the trace, is coincident with the holes through the plates *a'*, A''', and B', when the pin part *b* of key B is put into hole *a''* in plate *a'* with the projecting lug or pin *b'* to slide through slot *a'''*, when it is turned partially around the projecting pin, turning under plate *a'*, and holding the pin in its place, securely holding the trace in its place without clamping or bending it.

This construction of buckle is such that allows of the trace to be easily secured in the buckle irrespective of the stiffness of the leather, as it is liable to be after long use, and particularly so when frozen in cold weather; and as the holding-pin is confined in holes through the transverse bars, and has no lateral movement therein, the trace is held firm in its place and cannot work longitudinally in either direction. The buckle is neat in appearance, light, and cheap, as well as strong, and can receive any kind of ornamentation.

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

In a trace-buckle, the bent longitudinal sides A, transverse end bars A' and A'', transverse plate B, and plate or bridge A''' having the recess *a⁴*, in combination with the removable key or holding-pin B having the projecting stud or pin *b'*, constructed to operate as described.

OLE A. FIELD.

In presence of—

CHAS. H. WOODS,
GEORGE W. CHOWEN.