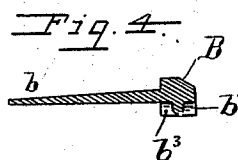
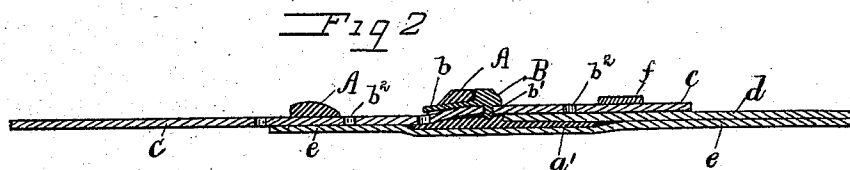
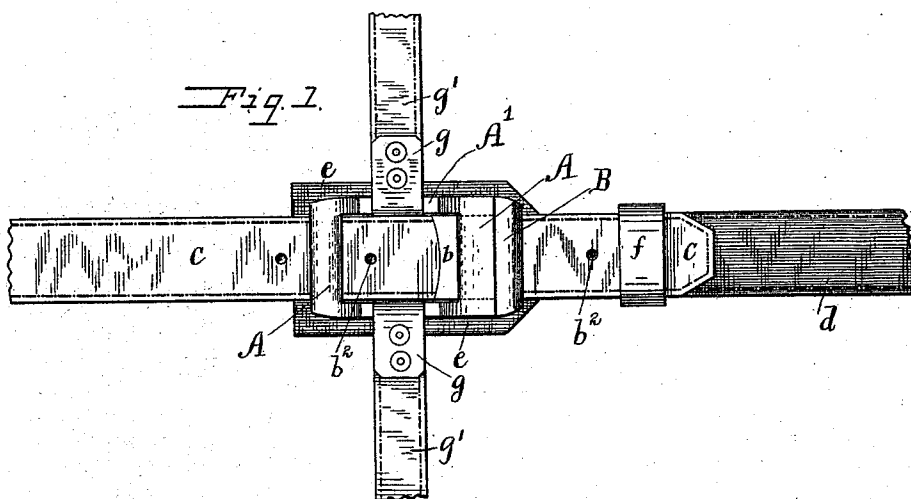


(No Model.)

M. H. FREIDLINE.
BUCKLE.

No. 413,751.

Patented Oct. 29, 1889.



WITNESSES:

R. A. Balderson,
G. Stansbury.

INVENTOR
M. H. Freidline
By *[Signature]*
ATTORNEY

UNITED STATES PATENT OFFICE.

MICHAEL H. FREIDLINE, OF NEAR FREDONIA, KANSAS.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 413,751, dated October 29, 1889.

Application filed May 11, 1889. Serial No. 310,483. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL H. FREIDLINE, a citizen of Kansas, residing near Fredonia, in the county of Wilson and State of Kansas, have invented certain new and useful Improvements in Buckles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to buckles; and its objects are, first, to hold four straps simultaneously, so that one pair shall be perpendicular in direction to the other pair; second, to dispense with a fixed tongue for the buckle; third, to provide for maintaining the straps securely by frictional contact only; fourth, to simplify the construction and operation of harness-buckles by a loose adjustable tongue that by wedge-like action retains the strap in position, and, fifth, to accomplish these ends with structural simplicity and economy. I attain these aims by the device illustrated in the accompanying drawings, in which—

Figure 1 represents a top plan view of a buckle constructed according to my invention. Fig. 2 is a longitudinal central section thereof. Fig. 3 is a central longitudinal section of the buckle, and Fig. 4 shows a section of the detached loose tongue thereof.

The same designations indicate corresponding parts in the several views.

It is a well-known fact to those intrusted with the management of horses that in buckling the strap there is frequently difficulty in procuring a secure fastening, owing either to a partial sidewise dislocation of the tongue caused by wear or to the numbness of the groom's hands in severe weather. I have therefore provided a buckle in which the tongue is disjoined therefrom and is held in place solely by the wedge-like action of its tapering surfaces between the strap and the upper wall of the buckle, the wedge having a lug projecting from its under surface that engages the perforations in the strap.

A A represent the walls of the buckle, 50 joined by cross-bars A', forming posteriorly the recess *a* between the inner surface of the wall A and the upper surface of the base *a'*.

B is the tongue or wedge, having the projections *b*³ thereon, that guide and retain the strap, and is centrally provided on its under surface with the lug *b'*, which engages the perforation *b*² in the strap, so that when the tapering surface *b* is pushed forward in the recess it will hold the strap *c* securely by frictional contact solely. The rear frame *a'* of the buckle is usually riveted between the straps *d e*, thereby preventing the chafing of the buckle on the flesh of the animal. The end of the strap *c* is held in place by the loop *f*, which is also fastened permanently between the straps *d e*. 60

The cross-bars A' A' of the buckle are encircled by the metal flaps *g g*, between which the straps *g' g'*, constituting the belly-band, are riveted. It is thus apparent that the same buckle securely holds two pairs of straps perpendicularly to each other. 70

Having thus fully described my improvements, what I claim is—

The buckle herein shown and described, consisting of the walls A', having integral loops A A at either end thereof of unequal altitude, and an integral extension *a'*, projecting laterally from the end having the highest loop, provided with an abutment *a*², in combination with the wedge B, having a tapering tongue *b*, provided with lateral projections *b*³ to retain the straps C *d* in position laterally, having, moreover, a lug *b'*, that engages a perforation in the straps C and abuts against the wall *a*² of the extension *a*, and the loop *f*, the whole co-operating as and for the purpose set forth. 80

In testimony whereof I affix my signature in presence of two witnesses. 90

MICHAEL H. FREIDLINE.

Witnesses:

B. F. SHINN,
B. B. TURNER.