

(No Model.)

M. L. HALL.
BUCKLE.

No. 330,232.

Patented Nov. 10, 1885.

Fig. 1.

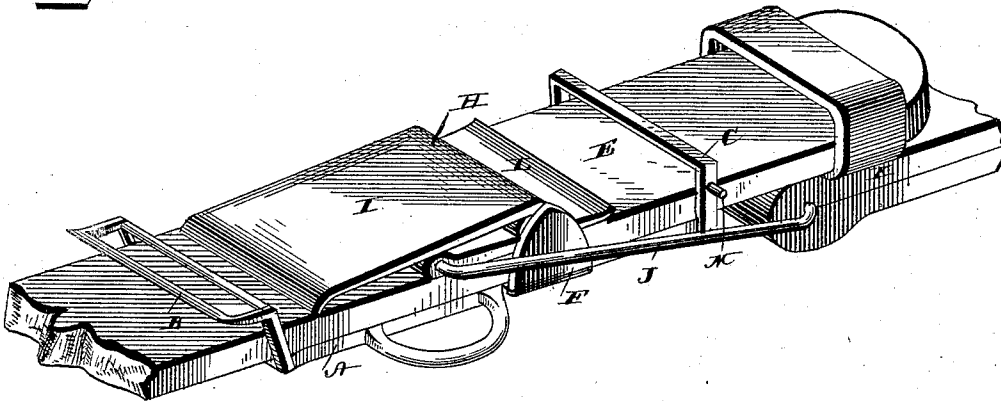


Fig. 2.

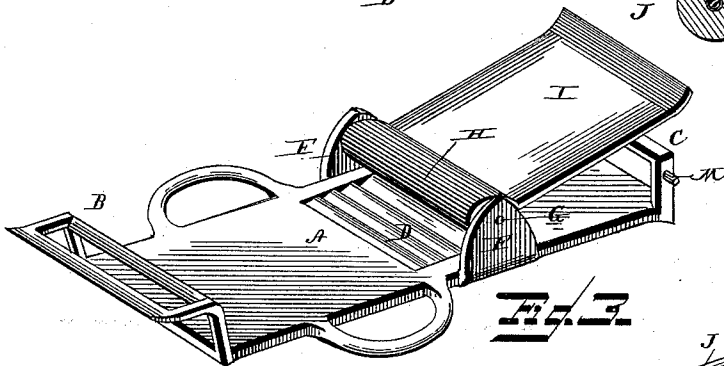
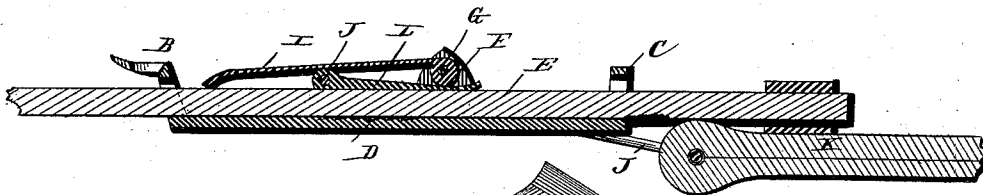
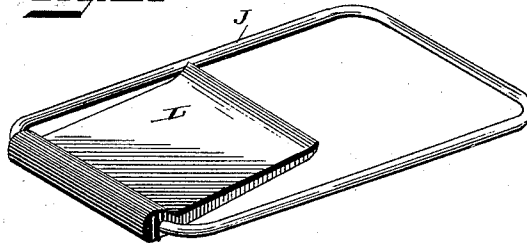


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

MOSES L. HALL, OF LEON, IOWA.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 330,232, dated November 10, 1885.

Application filed July 24, 1885. Serial No. 172,532. (No model.)

To all whom it may concern:

Be it known that I, MOSES L. HALL, a citizen of the United States, and a resident of Leon, in the county of Decatur and State of Iowa, have invented certain new and useful Improvements in Buckles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved buckle connected to straps forming a portion of the harness. Fig. 2 is a longitudinal sectional view of the same, and Fig. 3 is a perspective view of the parts of the buckle separated.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of buckles in which a strap is clasped or clamped instead of held by a tongue; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, A indicates the base-plate of the buckle, which has flat raised bails B and C at its ends, and the bottom of which is provided with serrations D, pointing against the direction of strain on the billet E. The side edges of the base-plate are provided at or near their middles with upwardly-turned lips F F, which are connected by a rod, G, and a wide cam, H, turns upon this rod and is provided with a flat lever-plate, I, projecting at a right angle to the thickest portion of the cam. A long rectangular bail, J, is secured to the doubled end of the strap K, and a wedge, L, is pivoted with its thick end upon the outer end of this bail, the side pieces of which slide against the side edges of the base-plate, laterally-projecting lugs M M upon the ends of the bail C, through which the outer end of the billet passes, bearing against the upper sides of the said side pieces and guiding them.

When the buckle is to be used, the billet is placed through the bails at the ends of the

base-plate and the wedge is placed upon the upper side of the billet and forced with its thin end under the cam, which is turned to have its thinnest side facing toward the billet. The wedge is now drawn in as far as it can be forced and the cam is turned so as to clamp against the upper side of the wedge, when it will be seen that the billet will be clamped between the serrated bottom of the buckle and the wedge, which again is held by the cam, so that it will be confined without any possibility of slipping. It will also be seen that the entire surface of the billet is clamped, and that the buckle may be secured at any point of the billet, thus giving the buckle a great advantage over the usual tongue-buckles, making the strain even over the entire width of the billet and avoiding the necessity of cutting holes in the billet, or of either tightening or loosening the strap too much.

The bite of the buckle will increase as the strain upon the billet is increased, and the buckle can in no possible manner become loosened by slack upon the strap or billet, inasmuch as the clamping-cam will have its thickest portion bear against the wedge as long as the lever-plate rests against the face of the billet, and the lever-plate cannot be raised excepting by prying it up with a finger or suitable convenient tool.

The buckle may be unlocked by simply raising the cam-lever plate, when the wedge may slip out from under the cam and the billet may be drawn out or be drawn farther into the buckle, shortening it.

The buckle may be used for any purpose where a buckle is to be used, although I have shown it here applied to the ends of the back-strap and belly-band of a set of harness, the billet E being the trace and the strap K being the hame-tug, the base-plate being modified with regard to lateral bails or extra bails, according to the purpose for which the buckle is to be used.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a buckle, the combination of the base-plate, having two lips at its side edges connected by a rod, a cam pivoted upon the rod

and having a lever at a right angle to its
thickest portion, a wedge-shaped piece sliding
under the cam and provided with a horizon-
tal perforation through the larger end, and a
5 bail secured in the said perforation in said
wedge and to the straps of the harness, as and
for the purpose shown and set forth.

2. In a buckle, the combination, with a bil-
let and buckle end of a strap, of a base-plate
10 having flat wide bails at its ends for the pas-
sage of the billet, and having upright lips at
its side edges connected at their ends by a rod,
a wide cam pivoted upon the rod and having

a lever-plate at a right angle to its thickest
portion, a wedge-shaped piece perforated at 15
its thicker end, and a rectangular bail secured
therein and to the straps of the harness, as and
for the purpose shown and set forth.

In testimony that I claim the foregoing as
my own I have hereunto affixed my signature 20
in presence of three witnesses.

MOSES L. HALL.

Witnesses:

DANIEL G. SEARS,
PAUL D. FULTON,
NOAH P. BULLOCK.