

(No Model.)

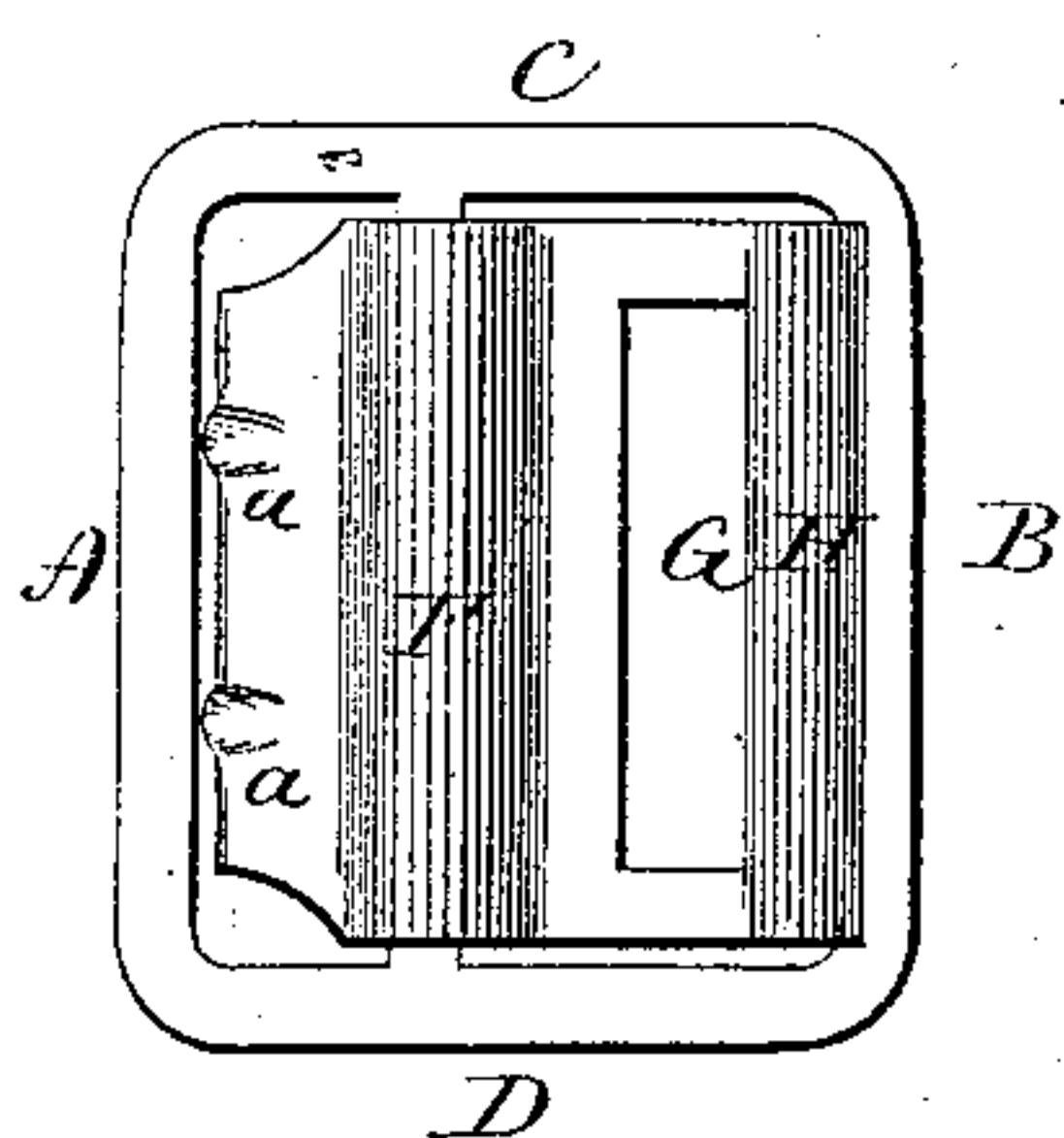
J. LINES.

BUCKLE.

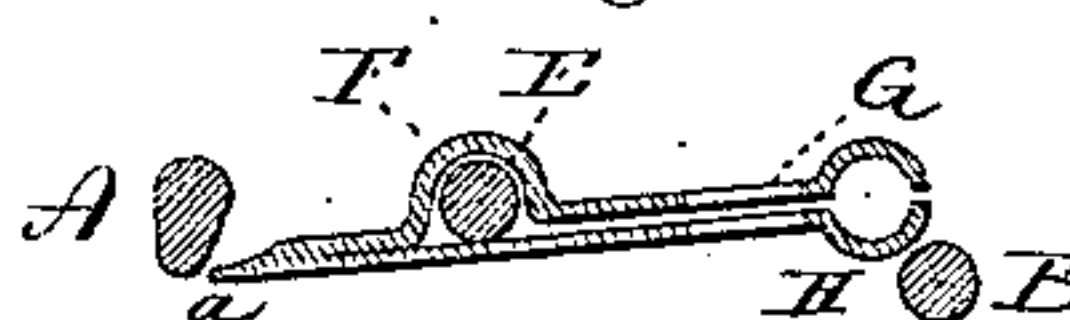
No. 312,210.

Patented Feb. 10, 1885.

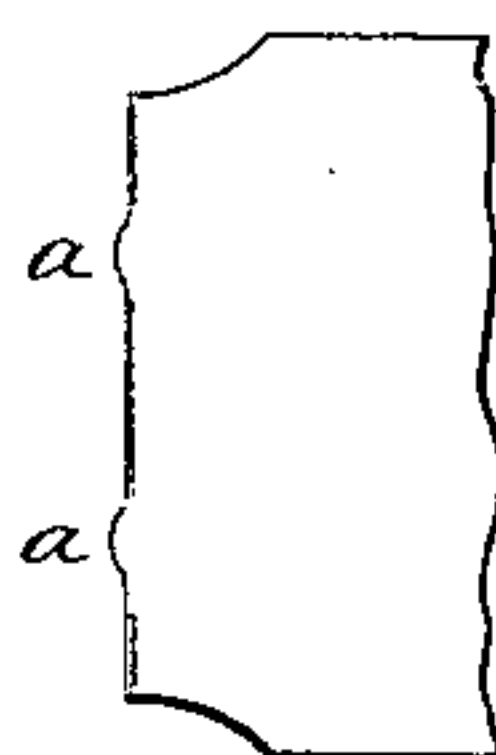
*Fig. 1*



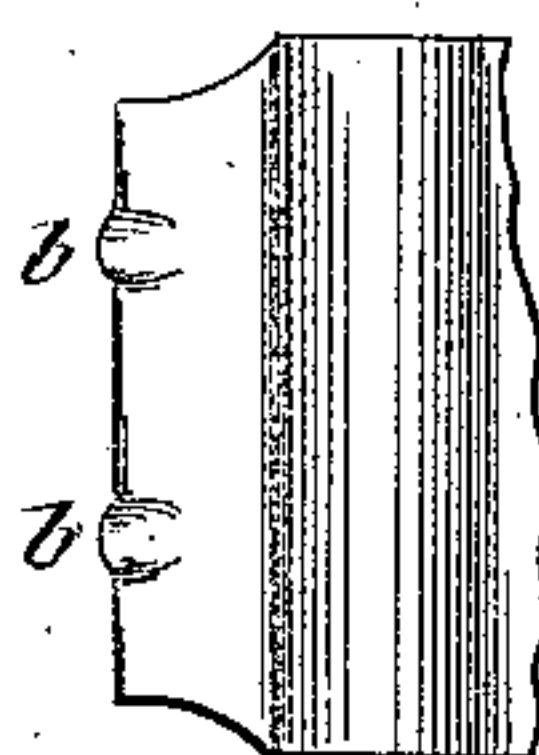
*Fig. 2*



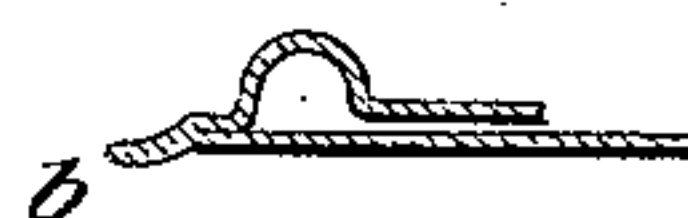
*Fig. 3*



*Fig. 4*



*Fig. 5*



Witnesses,  
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# UNITED STATES PATENT OFFICE.

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## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 312,210, dated February 10, 1885.

Application filed December 8, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN LINES, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Buckles; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a face or top view of the buckle complete; Fig. 2, a section through one of the indentations of the doubled edge of the tongue; Fig. 3, a reversed side view of the doubled edge portion of the tongue; Fig. 4, a reverse side view, and Fig. 5 a section through the protuberances in a modified form.

This invention relates to an improvement in that class of buckles designed more particularly for shoe or skate buckles, and which consist of a rectangular frame, with a bar longitudinally across it, upon which the tongue is hung, the tongue formed from sheet metal doubled and hung upon the pivot-bar between the two thicknesses, the doubled edge extending toward one side of the frame and forming a grip against that side. The edge of the tongue has been made straight, depending simply upon the friction produced between the straight-edged tongue and a corresponding bar. To increase this friction, notches have been cut in the doubled edge of the tongue; but such notches do not to any considerable extent increase the friction or bite on the strap.

The object of my invention is to construct the doubled edge with projections, which will readily impress the strap, and thereby increase the friction and bite; and it consists in producing such projections by one or more indentations upon the surface at the doubled edge, whereby a projection or projections is thrown out at the edge to enter or impress the strap, and as more fully hereinafter described.

The general construction of the buckle is common and well known, and consists of a

metal frame composed of two sides, A B, and two ends, C D, with a connecting-bar, E, between the two ends, and which forms the pivot for the tongue. The tongue is made from sheet metal doubled, as seen in Fig. 2, the double edge toward the bar A. One or both thicknesses are bent to embrace the connecting or pivot bar E and form a hinge upon which the tongue will freely turn, the edges of the tongue opposite the doubled edge brought together, and a slot, G, cut near the edge, to form the bar H, to which the standing strap is attached. So far the construction is common. At the doubled edge I make one or more indentations, *aa*, and upon one side, to swage or throw out protuberances *bb* beyond the doubled edge of the tongue. These indentations may be from either the upper or lower side, and may be made so as to leave the metal flush upon the reverse side, as seen in Fig. 2, or so as to make a slight projection upon the reverse side, as seen in Fig. 5; but in either case a slight projection is made upon the edge, and this is somewhat sharper than the natural doubled edge of the tongue; hence the point or points readily embed themselves into the free strap when introduced between the bar A and the tongue, thus greatly increasing the grip upon the strap, and this increase is produced without cutting the doubled edge of the tongue.

I claim—

In a buckle in which the tongue is composed of sheet metal doubled at the edge, the double tongue hung in the frame and so as to bring the doubled edge toward a bar in the frame to secure the free strap, the protuberances *bb* on the doubled edge of the tongue, produced by indentations on the face of the tongue adjacent to said double edge, substantially as described.

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Witnesses:

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JOS. C. EARLE.