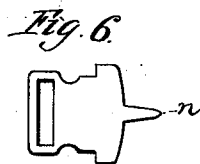
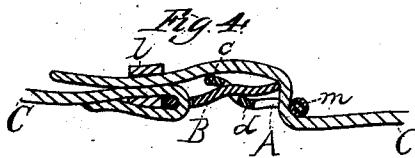
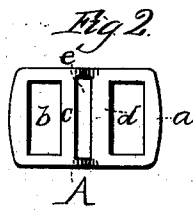
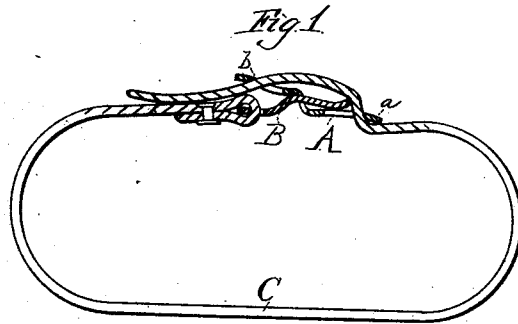


(Model.)

J. B. NOYES.  
Buckle.

No. 236,908.

Patented Jan. 25, 1881.



WITNESSES.  
F. B. Townsend  
F. W. Kaschagen.

INVENTOR:  
Jesse B. Noyes,  
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Attys.

# UNITED STATES PATENT OFFICE.

JESSE B. NOYES, OF CHICAGO, ILLINOIS, ASSIGNOR OF TWO-THIRDS TO  
F. W. T. GLOVER AND GEORGE D. HOLTON, OF SAME PLACE.

## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 236,908, dated January 25, 1881.

Application filed November 22, 1880. (Model.)

To all whom it may concern:

Be it known that I, JESSE B. NOYES, of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Buckles, of which the following is a specification.

The object I have in view is to produce a lever-buckle which, by reason of its great strength and holding powers, will be adapted for use in all locations where the ordinary tongue-buckle can be employed, and which can be used on straps of poorer quality than a tongue-buckle, since such straps are torn from hole to hole by the tongue of the buckle when subjected to any considerable strain, while the lever-buckle grasps the full width of the strap and utilizes all its strength. My lever-buckle can also be made cheaper than the ordinary tongue-buckle, and, further, saves the expense of cutting the holes in the straps, which are necessary with the tongue-buckle. The same features of construction can be applied to tongue-buckles, and will result in producing a cheaper, stronger, and better buckle than that now generally used.

My invention consists in the peculiar devices employed by me to accomplish the above object, as fully hereinafter explained, and pointed out by the claims.

In the accompanying drawings, forming a part hereof, Figure 1 is a sectional view of the preferred form of the buckle applied to a strap. Figs. 2 and 3 are views, respectively, of the buckle-frame and lever-plate of the same; Fig. 4, a sectional view of the buckle when a leather loop is used, showing also a roller on the front bar of the buckle-frame; Fig. 5, a sectional view of a tongue-buckle involving the same features of construction, and Fig. 6 a separate view of the tongue-plate of the tongue-buckle.

Like letters denote corresponding parts in all the figures.

A is the buckle plate or frame, having a front bar, *a*, and a rear loop, *b*, which holds the loose end of the strap. The buckle-plate is provided with two central bars, *c* *d*, which form between them a slot, *e*, for receiving the lever-plate B. The buckle-plate is offset at the slot *e*, as shown, to make room for the shank

of the lever-plate and the end of the strap. The lever-plate has a head, *f*, of the full width of the buckle-plate. The shank *g* of the lever-plate passes through the slot *e* of the buckle-plate, while the shoulders *h*, formed by the projection of the head beyond the sides of the shank, rest on the sides of the buckle-plate at each end of the slot *e*. The shank *g* is widened out at its end and provided with a slot, *i*, through which the end of the strap C is passed for securing the same to the buckle. The slotted end of the shank is too wide to be passed squarely through the slot *e*, since the slot *i* must accommodate a strap that will fill the loops of the buckle-plate. The sides of the shank inside of its slotted end are provided with rounded indentations *k*, so that such end can be buttoned or passed obliquely through the slot *e*.

The buckle-plate and lever-plate are preferably cast of malleable iron. The lever-plate is of a single thickness, and is stiff, strong, and solid. My buckle also holds the strap very secure, so that no amount of shaking can work the strap loose. These peculiarities of my lever-buckle adapt it for use wherever a tongue-buckle can be employed, and it has also the advantage of a lever-buckle, in that the strap can be adjusted and held at any point, no holes are required, and a weaker strap can be used.

If desired, the buckle-plate may terminate at the central bar, *c*, and be made without the holding-leaf *b*, in which case the strap would be provided with a leather loop, *l*. This form of the buckle might be deemed preferable for some purposes. The buckle could also have a roller, *m*, on the front bar of the buckle-plate.

The same features of construction as those involved in my lever-buckle could be embodied in a tongue-buckle, as shown in Figs. 5 and 6. No change would be necessary in the buckle-plate, and the tongue-plate would be the same as the lever-plate, with the exceptions that the head *f* would not extend quite so far forward and would be provided with a central tongue, *n*. This produces a tongue-buckle which is stronger and better than the ordinary tongue-buckle now in use.

The ease with which the parts of the buckle can be put together without fitting and with-

out a fastening of any kind enables both the lever and tongue buckles described to be made cheaper than the buckles heretofore constructed.

5 What I claim as my invention is—

1. In a buckle, the buckle-plate having a lateral slot, in combination with the lever or tongue plate, held pivotally and removably in such slot, and prevented thereby from moving  
10 on the buckle-plate, and having shoulders which bear upon the buckle-plate at the ends of the slot, and provided with a slotted shank, to which the end of the strap is secured, substantially as described and shown.

15 2. In a buckle, the combination, with the

buckle-plate provided with a transverse slot, of a lever or tongue plate located in said slot, and having shoulders bearing on the sides of the buckle-plate at the ends of the said slot, and provided, further, with a slotted shank, to  
20 which the strap is secured, of greater width at its end than the slot in the buckle-plate, and with side indentations, whereby the shank of the lever or tongue plate can be passed  
25 through the slot of the buckle-plate, substantially as described and shown.

JESSE B. NOYES.

Witnesses:

F. W. KASEHAGEN,  
OLIVER W. MARBLE.