

(No Model.)

J. P. TILLSON.  
HARNESS BUCKLE.

No. 431,085.

Patented July 1, 1890.

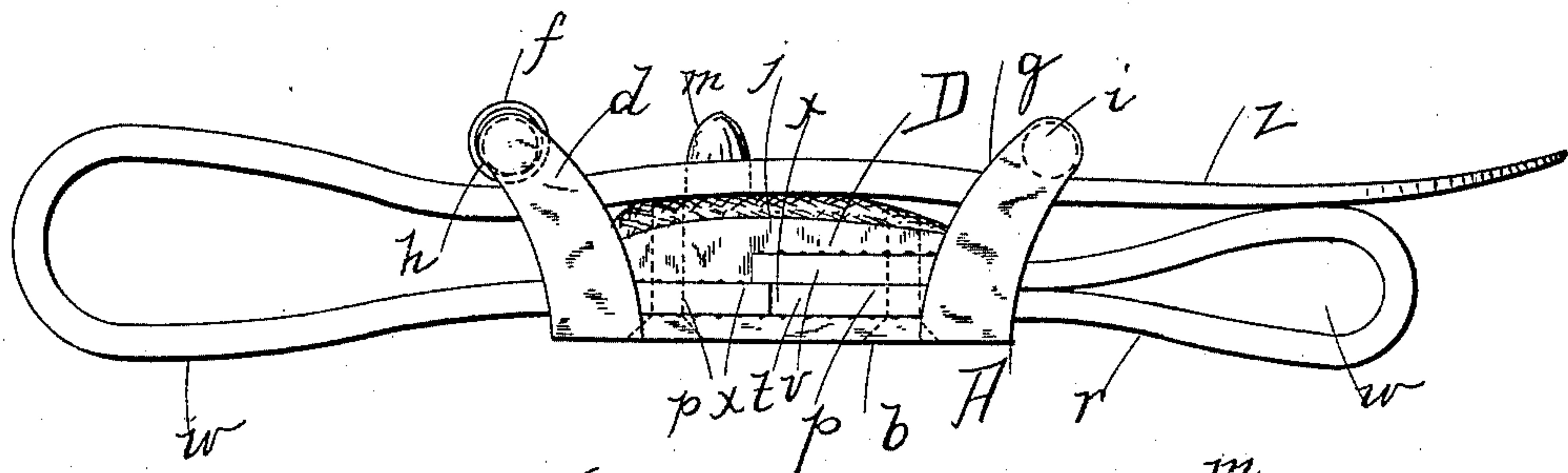


Fig. 1.

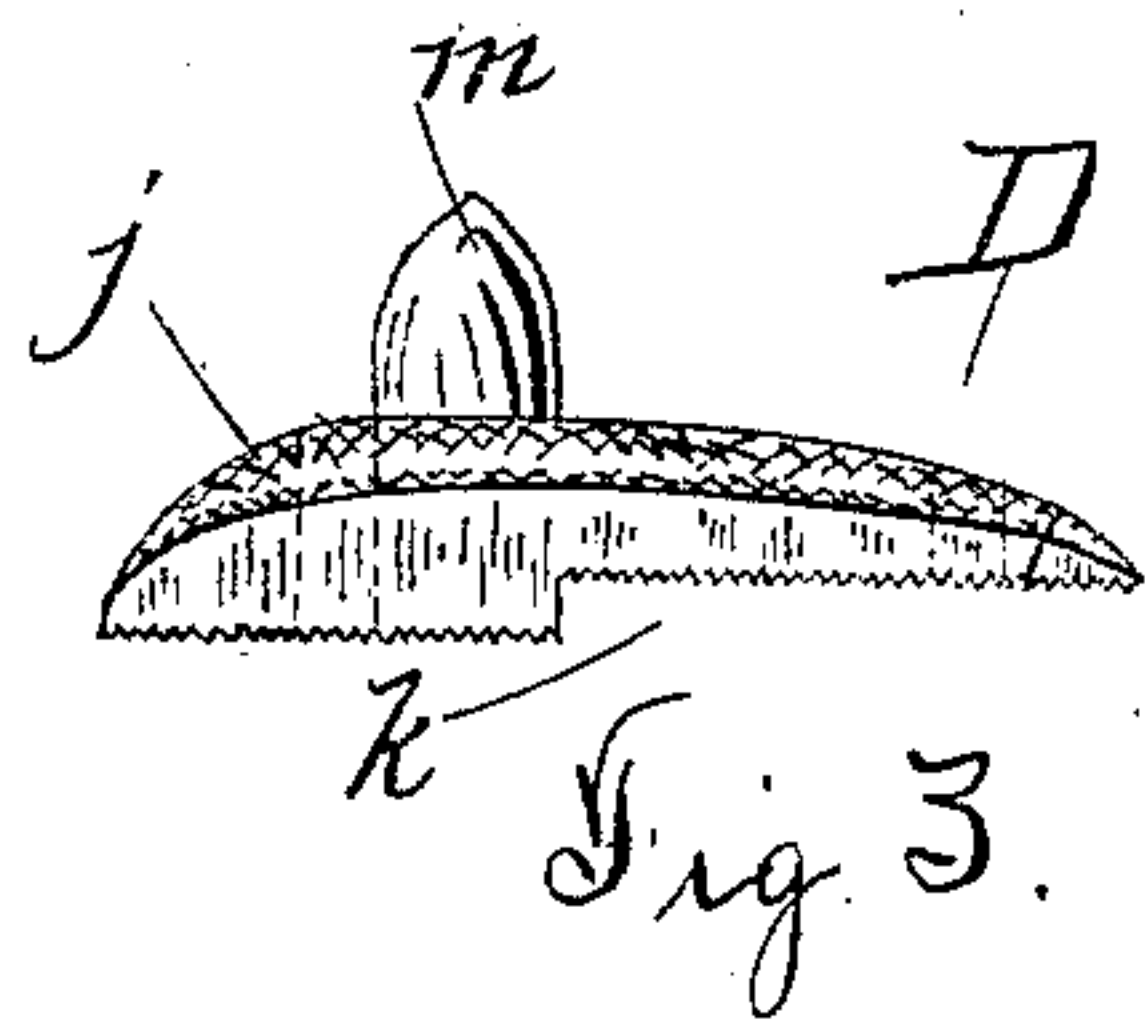


Fig. 3.

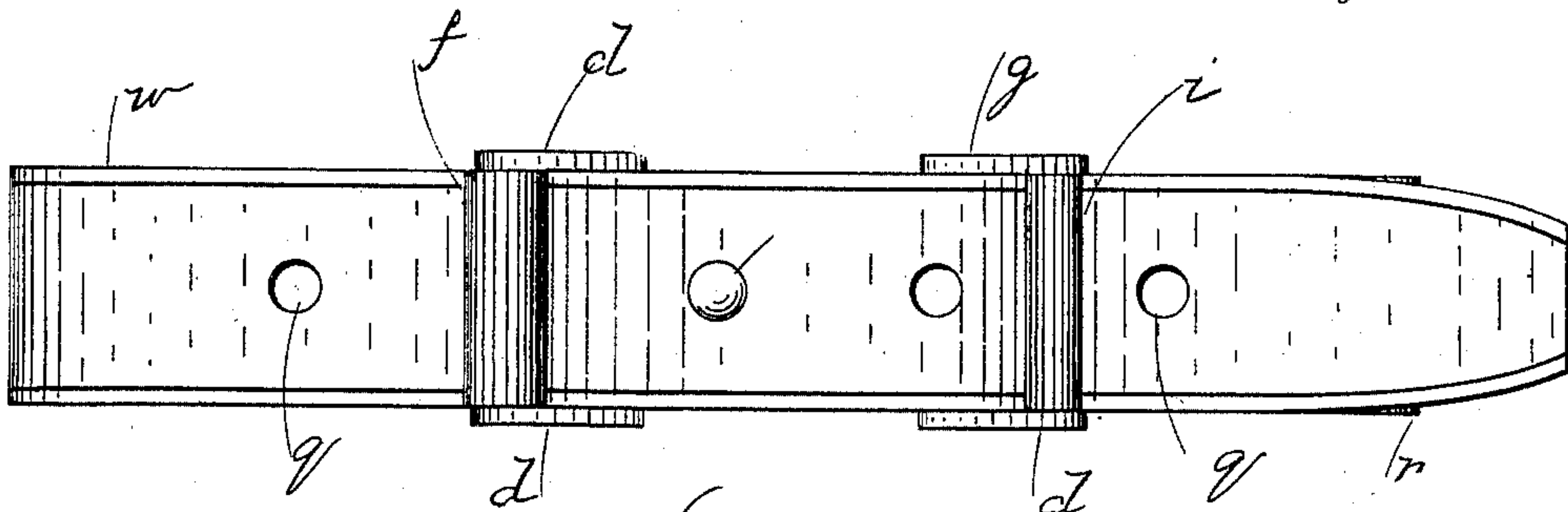


Fig. 2.

Witnesses.  
H. L. Lumber  
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# UNITED STATES PATENT OFFICE.

JOHN P. TILLSON, OF PEMBROKE, MASSACHUSETTS.

## HARNESS-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 431,085, dated July 1, 1890.

Application filed April 15, 1890. Serial No. 348,076. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN P. TILLSON, of Pembroke, in the county of Plymouth, State of Massachusetts, have invented certain new and useful Improvements in Harness-Buckles, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation showing my improved buckle in use with hame-straps; Fig. 2, a top plan view of the same, and Fig. 3 an elevation of the binding-block.

Like letters and figures of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to buckles which are especially adapted for use on the hame-straps of harness; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the body of the buckle, which consists of a flat plate *b*, from the corners of which vertically-arranged outwardly-curved arms *d g* project. Companion arms *d g* at the same end of the plate are sufficiently far apart to permit a strap to be passed between them. The arms *d* are connected at their tops by a pin *h*, on which a loose sleeve *f* is disposed. The tops of the arms *g* are connected by a pin *i*. A binding-block D, adapted to be inserted between the arms *d g*, has an oval-shaped top *j*, and is rabbeted laterally at *k* across its lower face. From the oval top a cone-shaped spindle or stud *m* projects vertically. The upper face of the plate *b* and lower face of the block D are roughened or corrugated. The plate and block are tapped to receive screws *p*, by which they may be secured together.

In the use of my improvement a strap *r* has its ends *t v* folded together and passed

between the arms *g*, forming a loop *e*, the lower end *t* of said strap resting on the plate *b* and extending about one-half across said plate, as shown in Fig. 1. A strap *w* has one end *x* passed between the arms *d* into engagement with the end *t* of the strap *r*. The block D is then disposed between the arms, the end *v* of the strap *r* being in the rabbet *k*. Openings being formed in the strap ends registering with the screw-holes in the plate and block, the screws *p* are turned into said holes, binding said block tightly against the straps and securing them in the buckle. The free end *z* of the strap *w* is passed under the roll or sleeve *f*, and the stud *m* projected through a tongue-hole *q* therein.

It will be seen that by the use of my improvement a short strap *r* may be employed to form the hame-loop *e*. As said loop is the portion of the strap which is most liable to wear and break, it may readily be replaced. The loop *e* is ordinarily formed from the continuation of the strap *w*, rendering it necessary to replace the whole strap when the loop breaks. My invention overcomes this objection and effects a considerable saving.

Having thus explained my invention, what I claim is—

1. In a buckle of the character described, a body comprising a base-plate having vertically-curved arms projecting from each corner thereof, a roll or loose sleeve connecting the arms at one end of said plate, in combination with a binding-block having its inner face rabbeted to receive the end of a hame-strap loop and provided with an outwardly-projecting stud or boss, said plate and block being tapped to receive screws, whereby the straps may be secured between them, substantially as described.

2. In a buckle of the character described, a body comprising a rectangular plate provided at each end with a vertically-arranged outwardly-curved arm or guard, companion arms being connected at their tops, in combination with a binding-block having an oval-shaped top and an outwardly-projecting stud thereon, the inner face of said block being rabbeted, and said block and plate being tapped to receive binding-screws, substantially as and for the purpose set forth.



3. In a buckle of the character described,  
the combination of the body A, comprising  
the plate *b*, provided with the arms *d g*, hav-  
ing their outer ends connected by pins *h i*,  
5 the sleeve or roll *f* on the pin *h*, and the bind-  
ing-block D, rabbeted at *k*, and provided with  
the stud *m*, the faces of said block and plate

being tapped to receive binding-screws, and  
having their inner faces corrugated, substan-  
tially as described.

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Witnesses:

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FREEMAN HILBRITH.