

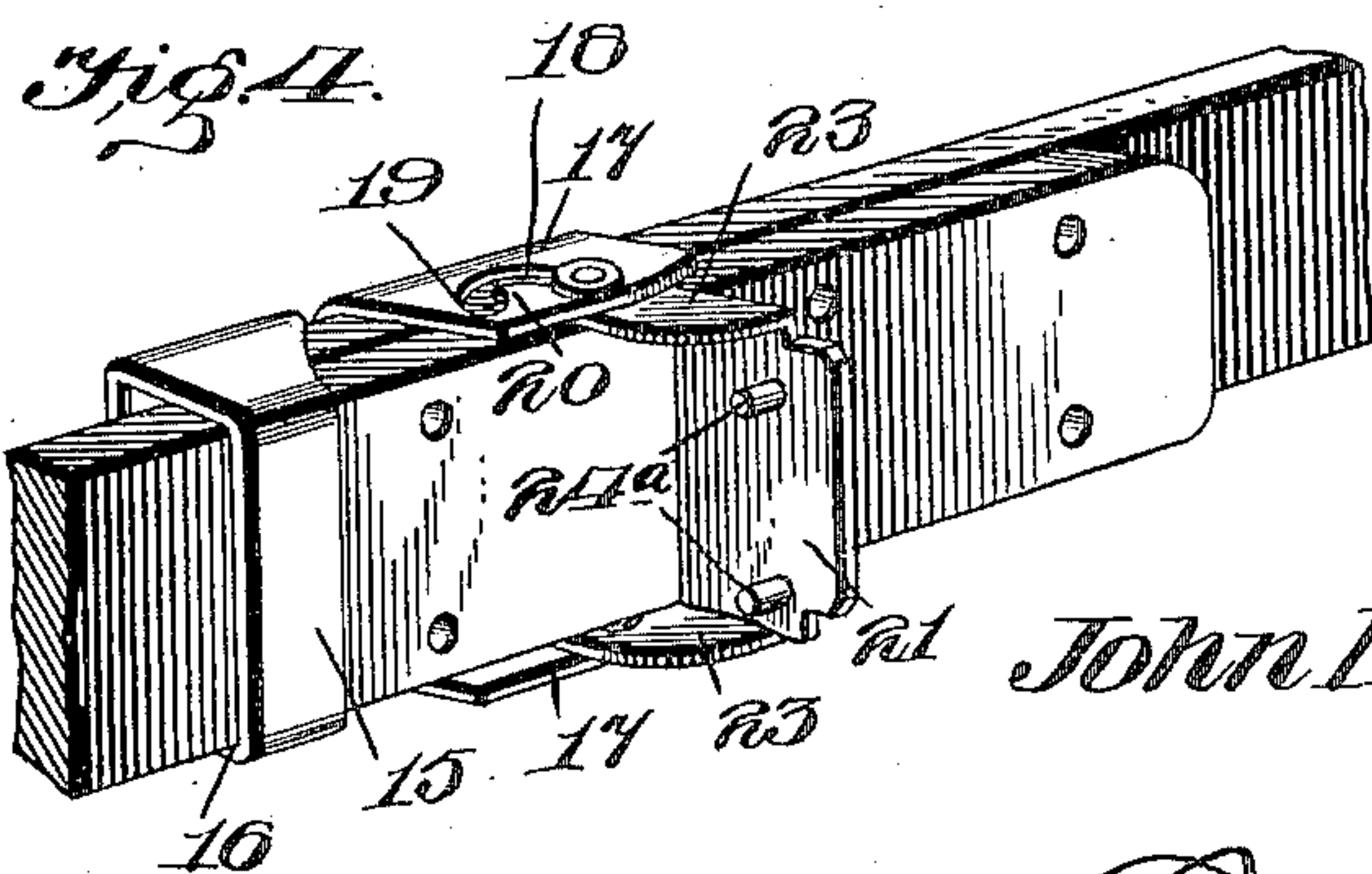
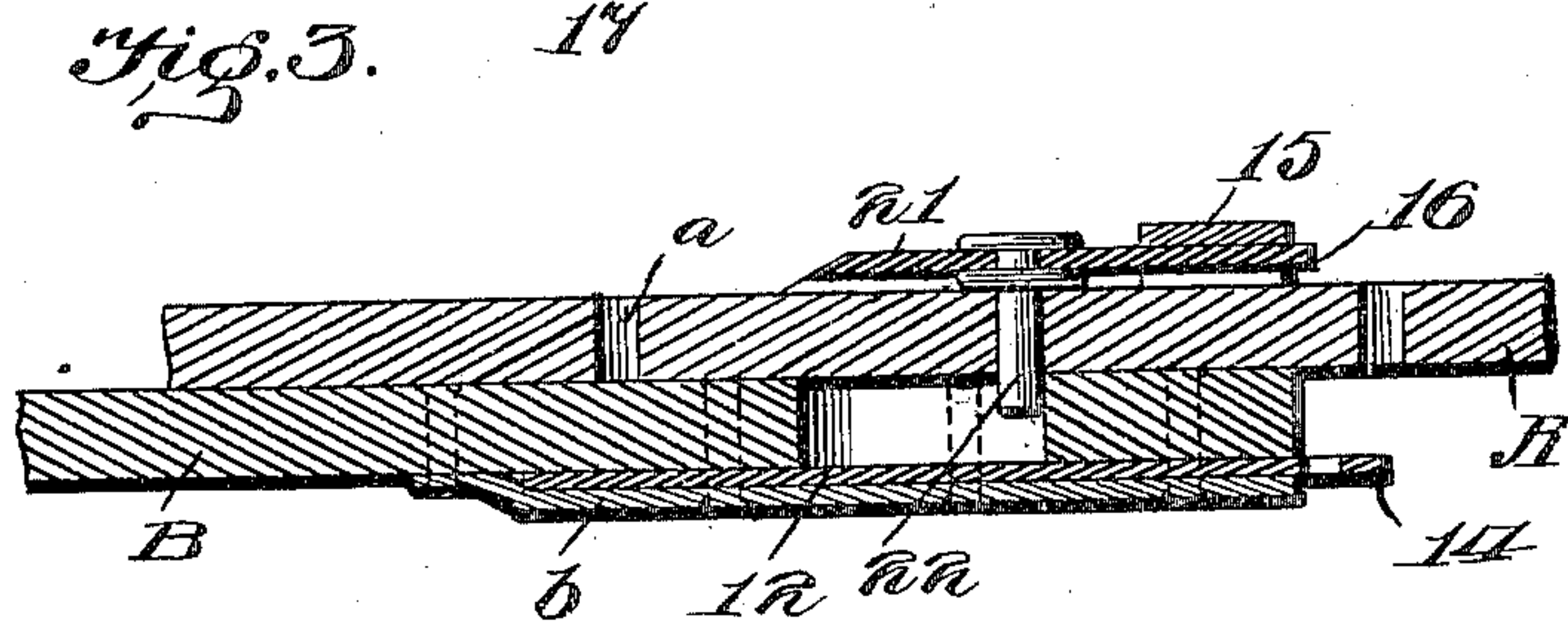
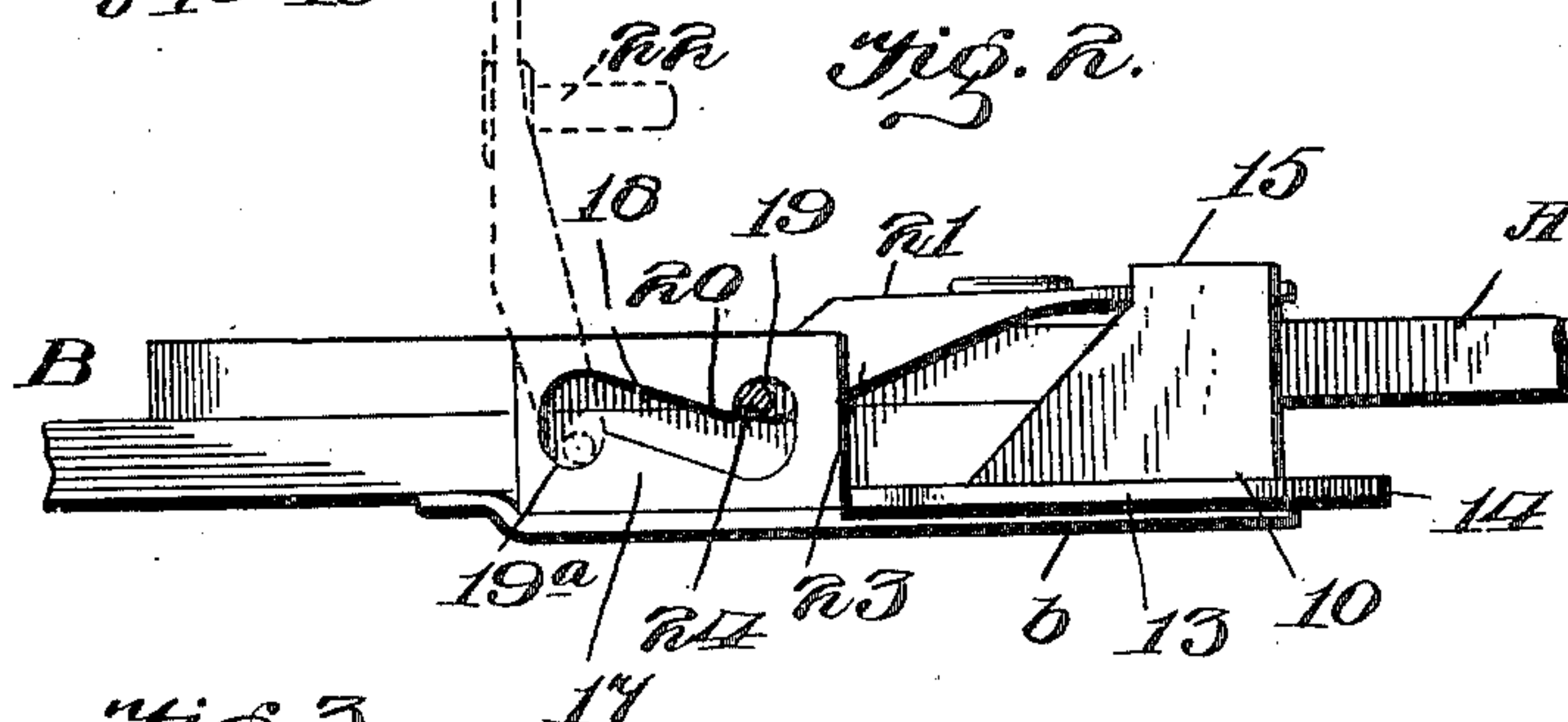
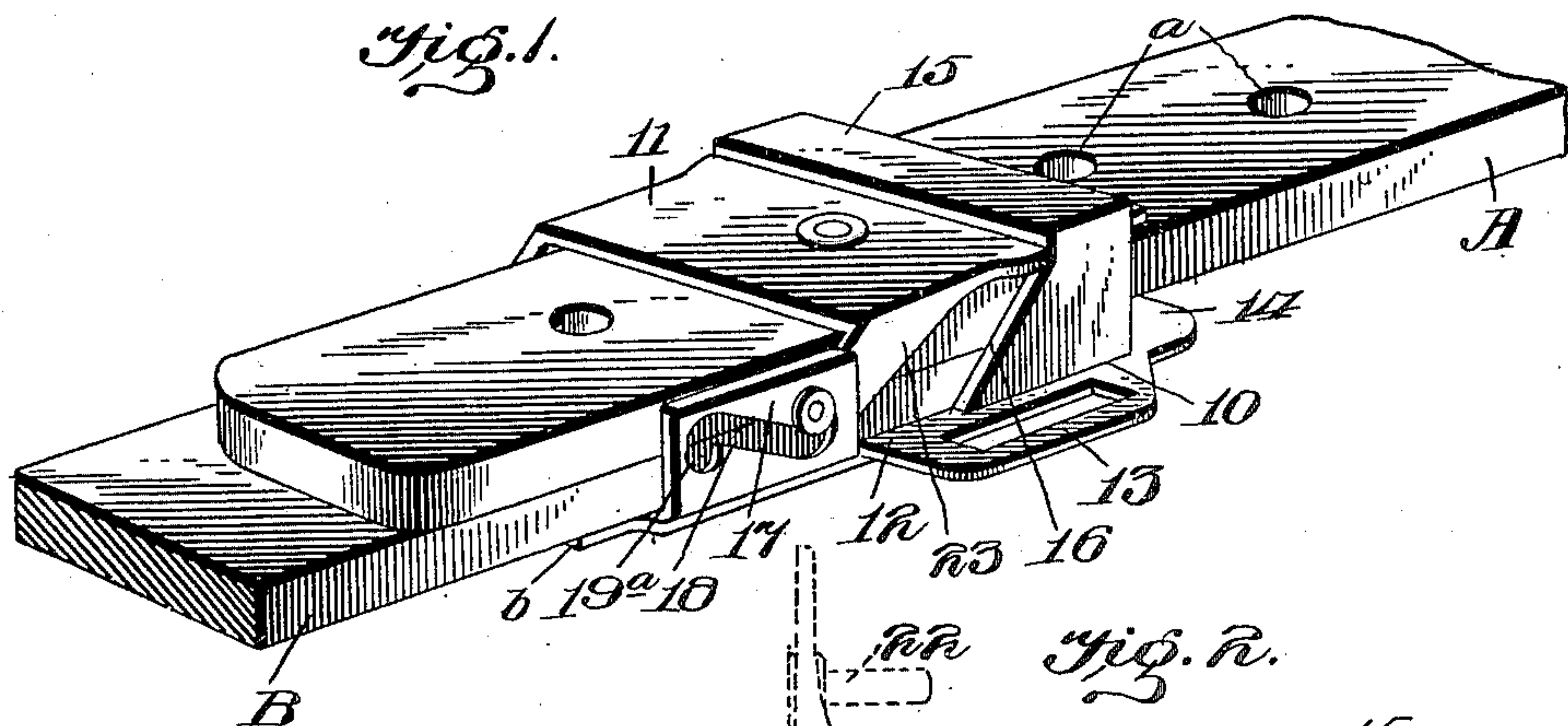
No. 679,336.

Patented July 30, 1901.

J. N. PURCELL.  
BUCKLE.

(Application filed Aug. 25, 1897.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

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## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 679,336, dated July 30, 1901.

Application filed August 25, 1897. Serial No. 649,519. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN N. PURCELL, residing at Conifer, in the county of Jefferson and State of Colorado, have invented a new and useful Improvement in Buckles, of which the following is a specification.

The present invention relates to buckles, more particularly to that class of buckles in which a pivoted locking-tongue is slidably mounted upon the buckle-frame; and the object thereof is to provide a novel construction whereby when the tongue is arranged in operative position said tongue will be held against accidental displacement due to any back pressure on the strap secured thereby.

In order that the invention may be readily understood by those skilled in the art, the preferred forms of construction have been illustrated in the accompanying drawings and described in the following specification.

In the drawings, Figure 1 is a perspective view of the preferred form of buckle, showing it in applied position. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal sectional view. Fig. 4 is a slightly-modified form of construction.

Similar characters of reference designate corresponding parts in the several figures of the drawings.

The buckle comprises, essentially, two elements, a frame 10 and a tongue 11, pivotally and slidably mounted upon said frame.

The frame 10 is in the form of a sleeve and preferably consists of a base-plate 12, having the usual side and end loops 13 and 14 and a locking-bar 15, arranged transversely across one end and spaced from the face of said base-plate, thus forming a guide or keeper 16, through which the strap to be secured (designated A) is passed. The base-plate 12 is also provided along its side edges with parallel ears 17, which project above the face thereof upon the same side as the guide or keeper 16. These ears 17 each have a slot 18, that inclines toward the guide or keeper 16, and the ends of each slot have offset portions 19 and 19<sup>a</sup>, arranged, respectively, on opposite sides thereof, whereby substantially Z-shaped slots are formed, the offset portion 19 of the end of the slot nearest the keeper being arranged in the outer side of said slot.

By this construction retaining-shoulders 20 are provided, which project into the slots for the purposes hereinafter described.

The tongue 11 comprises a flat plate 21, carrying a stud 22, that is arranged to engage in openings *a* in the strap A and having at its opposite side edges angular arm extensions 23, arranged to embrace the strap A and carrying pintles 24, that engage in the slots 18, whereby said tongue is pivotally and slidably connected to the frame. The free end of the plate 21 is made slightly smaller and is arranged to engage under the locking-bar 15.

In using the improved buckle one end of the strap (designated B) is secured to the base-plate in any suitable manner, but, as shown, by means of rivets which pass through the strap and base-plate and through a small wear-piece *b*, arranged on the under side of said base-plate. The tongue is then thrown to the position shown in dotted lines in Fig. 2, the offset portions 19<sup>a</sup> forming journals for the pintles 24, and the end of the strap A is passed through the guide or keeper 16 and under the lower edge of the plate 21. The tongue is then turned so that the stud 22 will engage in one of the openings *a*, and the strap is then pulled back, thus carrying the end of the plate under the locking-bar 15. At the same time the pintles 24 will ride down the inclined slots, and as they reach the ends thereof will swing laterally into the offset portions 19 and behind the retaining-shoulders 20. It will thus be seen that the tongue is securely retained in place, as the shoulders 24 will prevent the pintles working back and allowing the end of the plate 21 disengaging from under the locking-bar 15. At the same time the construction permits the ready disengagement of the strap, as a slight downward pressure upon the tongue will compress the straps sufficiently to free the pintles from the shoulders and permit of their retrograde movement in the slots.

In Fig. 4 is shown a slight modification, in which the tongue is provided with a plurality of holding-studs 24<sup>a</sup>, and a similar number of rows of openings are made in the strap for the reception of the same. By this construction a buckle is provided in which the



tongue is secured in operative position and is not liable to be accidentally displaced by the vibration or jar of the straps while in use.

From the foregoing it is thought that the  
5 construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that changes in the size, shape, proportion,  
10 tion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having now described my invention, what  
15 I claim as new, and desire to secure by Letters Patent, is—

1. A buckle comprising a base, a transverse locking-bar spaced from said base, a pair of ears projecting from the face of said base and  
20 provided with longitudinal slots, retaining-shoulders projecting into said slots contiguous to the ends of the same which are nearest the locking-bar, and a pivotal tongue adapted to engage under the locking-bar, said tongue  
25 being provided with pintles that operate in said slots and are adapted to engage behind

the shoulders when said tongue is engaged under the locking-bar.

2. A buckle comprising a base, a transverse locking-bar spaced from said base, a pair of  
30 longitudinally-disposed ears projecting from the face of said base and provided with slots that incline toward the locking-bar, said slots having offset portions at their ends nearest the locking-bar forming retaining-shoulders,  
35 a pivotal tongue carrying a strap-engaging stud and having its free end adapted to engage under the locking-bar, said tongue being provided with pintles that slide in said slots and are adapted to be seated in said  
40 offset portions behind the retaining-shoulders when the free end of the tongue is engaged under the locking-bar.

3. A buckle comprising a base, having opposite Z-shaped slots, a transverse locking-  
45 bar spaced from said base, and a tongue adapted to engage under the locking-bar and having pintles operating in said slots.

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