

J. RAISBECK.
TUG AND BUCKLE.
APPLICATION FILED MAY 4, 1909.

952,357.

Patented Mar. 15, 1910.

Fig. 1.

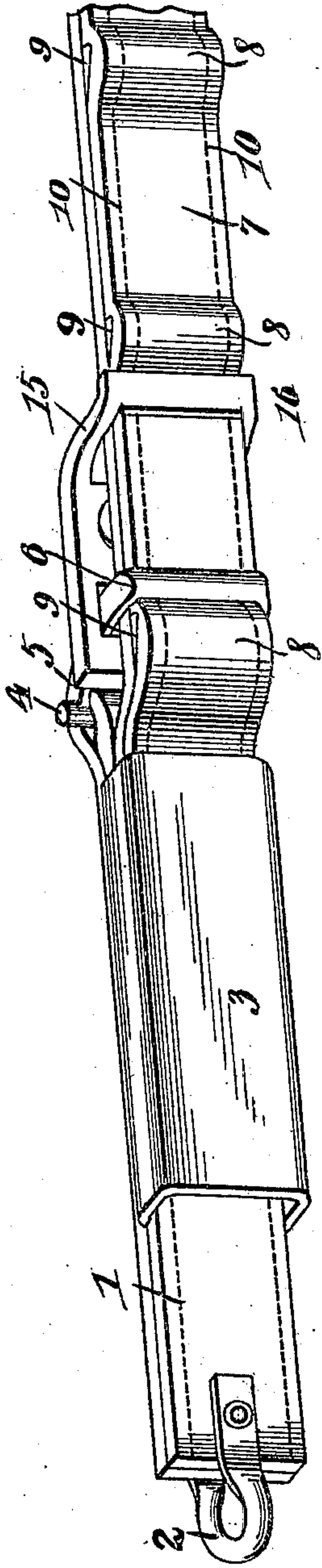


Fig. 2.

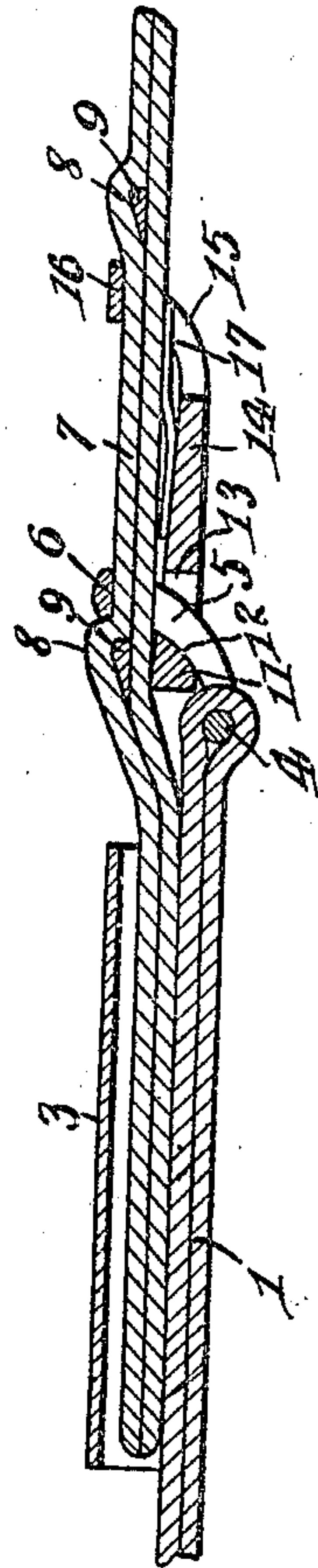
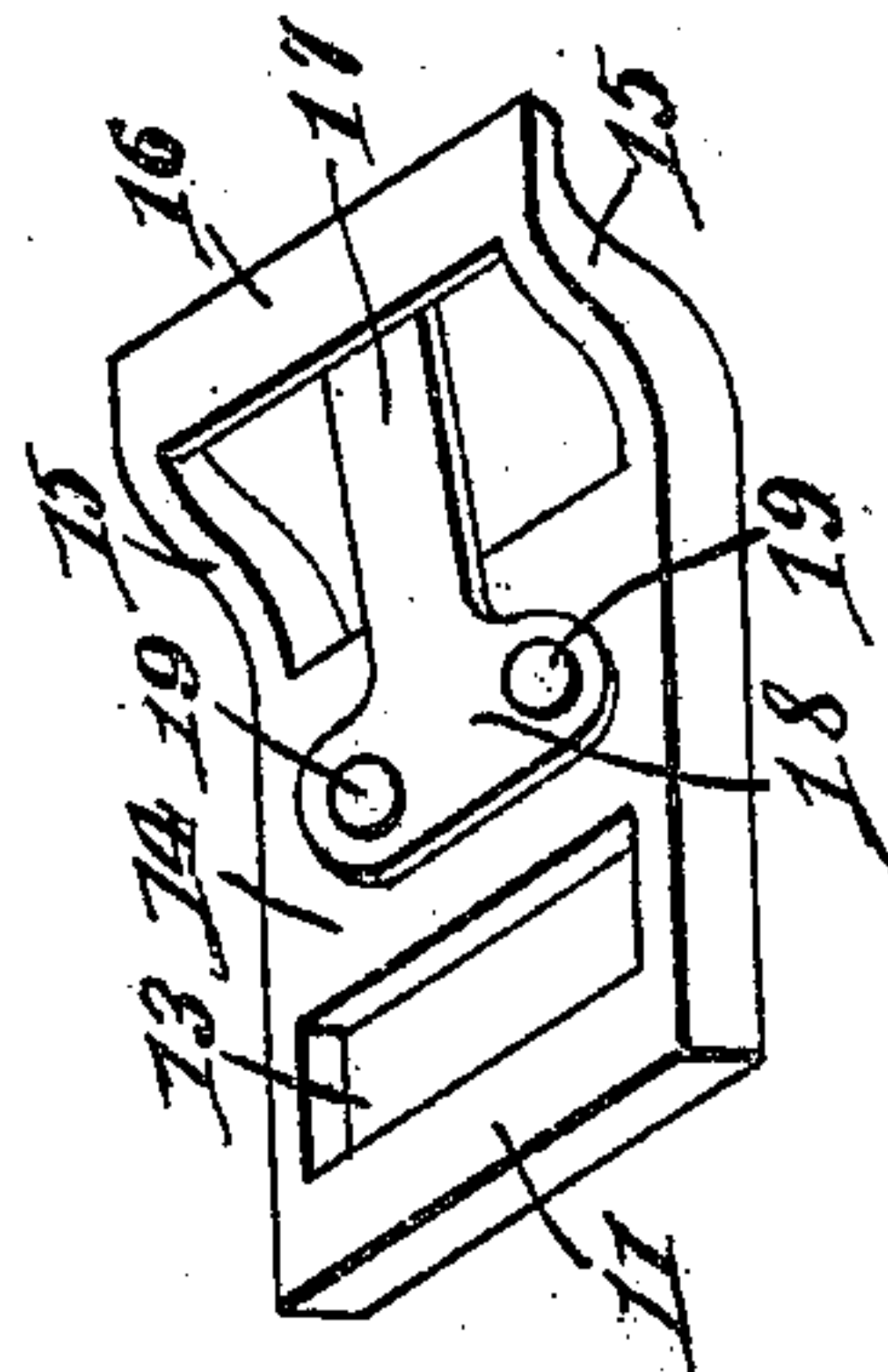


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH RAISBECK, OF BRACEVILLE, ILLINOIS.

TUG AND BUCKLE.

952,357.

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To all whom it may concern:

Be it known that I, JOSEPH RAISBECK, a citizen of the United States of America, residing at Braceville, in the county of Grundy and State of Illinois, have invented new and useful Improvements in Tugs and Buckles, of which the following is a specification.

This invention relates to tugs and buckles, and one of the principal objects of the invention is to provide means for adjusting the trace or tug of a harness relatively to the hame tug without requiring holes in the trace or tug.

Trace buckles are usually provided with a tongue or a stud adapted to engage a hole or holes in the trace or tug. There are several serious objections to the holes in the trace, one of the principal ones being that the holes weaken the trace, and another is owing to the fact that rain or moisture find a lodgment in the holes and eventually rot the leather. These serious objections are overcome by means of my invention.

In the accompanying drawing,—Figure 1 is a perspective view of a hame tug and a trace end connected together by means of a buckle made in accordance with my invention. Fig. 2 is a detail longitudinal section taken through the end of the trace, the end of the hame tug and the buckle for securing the parts together. Fig. 3 is a detail perspective view of the buckle.

Referring to the drawing, the numeral 1 designates the hame tug, which may be of the usual or any suitable construction, and provided with the ordinary metal hame staple 2 and the billet loop 3. Pivotally connected to the opposite end of the hame tug is a metal buckle loop comprising a round cross bar 4 having curved side bars 5 and an upper cross bar 6 having a flat lower surface.

The trace or tug 7 is provided at suitable intervals upon its outer face with enlargements or transverse projections 8 preferably formed by interposing a strip or bar 9 of suitable material between the two layers of the tug and securing the same in place by the stitches 10 at opposite sides of said trace.

The buckle consists of a frame having an end bar 11, the under surface 12 of which is curved, as shown more particularly in Fig. 2. Adjacent the end bar 11 is a slot 13, and in front of the slot is a wide flat bar or plate 14 having a plain upper surface. Curved

side bars 15 extend from the plate 14, said inclined side bars being connected by a flat cross bar 16. A spring presser finger 17 is provided with an enlarged head 18 secured by rivets 19 to the plate 14, said finger extending under the cross bar 16 and adapted to press upwardly upon the lower surface of the trace 7, as shown more particularly in Fig. 2.

To adjust the trace relatively to the hame tug, the trace is pushed inward toward the hame tug, this action permitting the metal loop to swing upon the cross bar 4 to lift the member 6 away from the enlargement upon the trace 7 and permitting the next enlargement to pass between the cross bar 6 of the loop and the end bar 11 of the buckle.

From the foregoing it will be obvious that the trace is not provided with the weakening perforations for the buckle top, and the adjustment of the trace and tug may be more quickly made than with the ordinary tug or stud buckle.

I claim:—

1. The combination of a hame tug provided with a curved metal loop pivotally connected thereto, a trace having enlargements upon its outer side at suitable intervals, a buckle through which said loop extends, said buckle being provided with a flat end bar and a cross bar having a curved under surface, and a spring presser finger secured to the buckle and bearing upon the underside of the trace to hold it against the end bar of the buckle.

2. A trace buckle comprising a frame having a flat end bar and a cross bar at the opposite end of the buckle frame, said cross bar provided with a curved lower side, a plate extending across said buckle frame, a spring presser finger secured to said plate, said presser finger extending under said flat end bar, in combination with a trace having transverse enlargements thereon, and a hame tug having a curved loop connected thereto, said loop extending through the buckle frame to engage the trace and bearing upon the curved lower side of the cross bar.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH RAISBECK.

Witnesses:

JOHN HAYES,
GEORGE BARTON.