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W. O. MILLER ET AL.
STRAP SLIDE BUCKLE.
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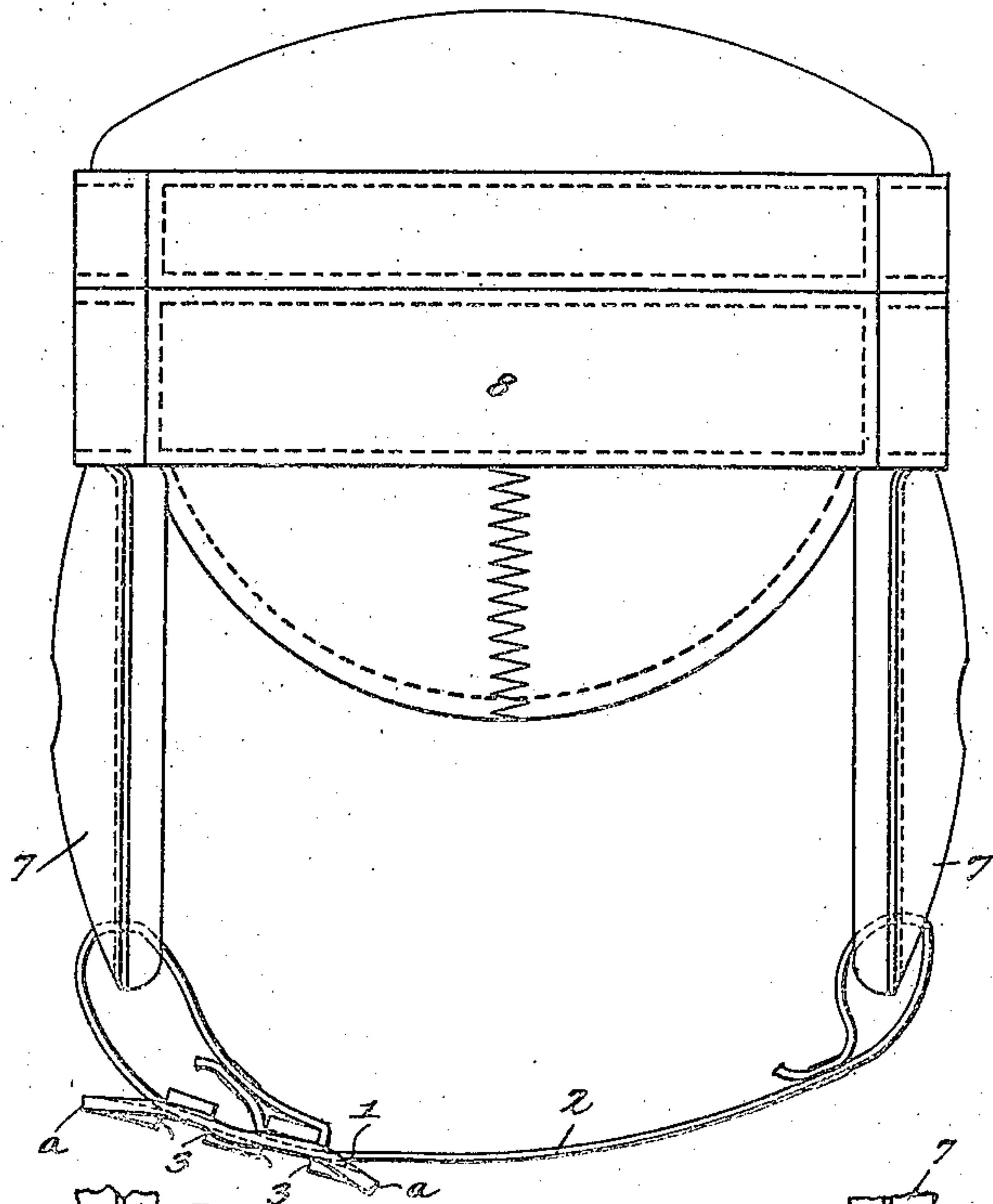


Fig. 1

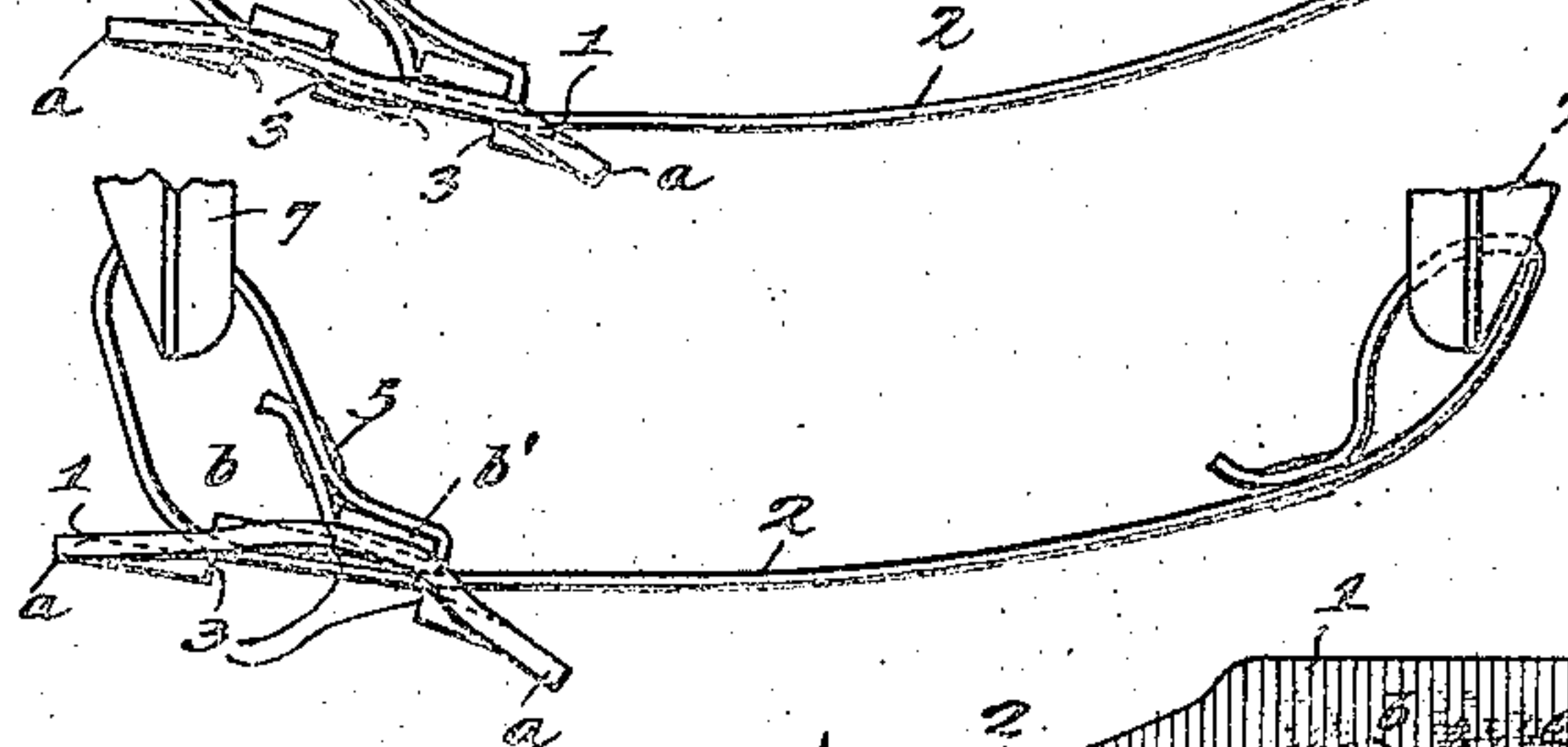


Fig. 2

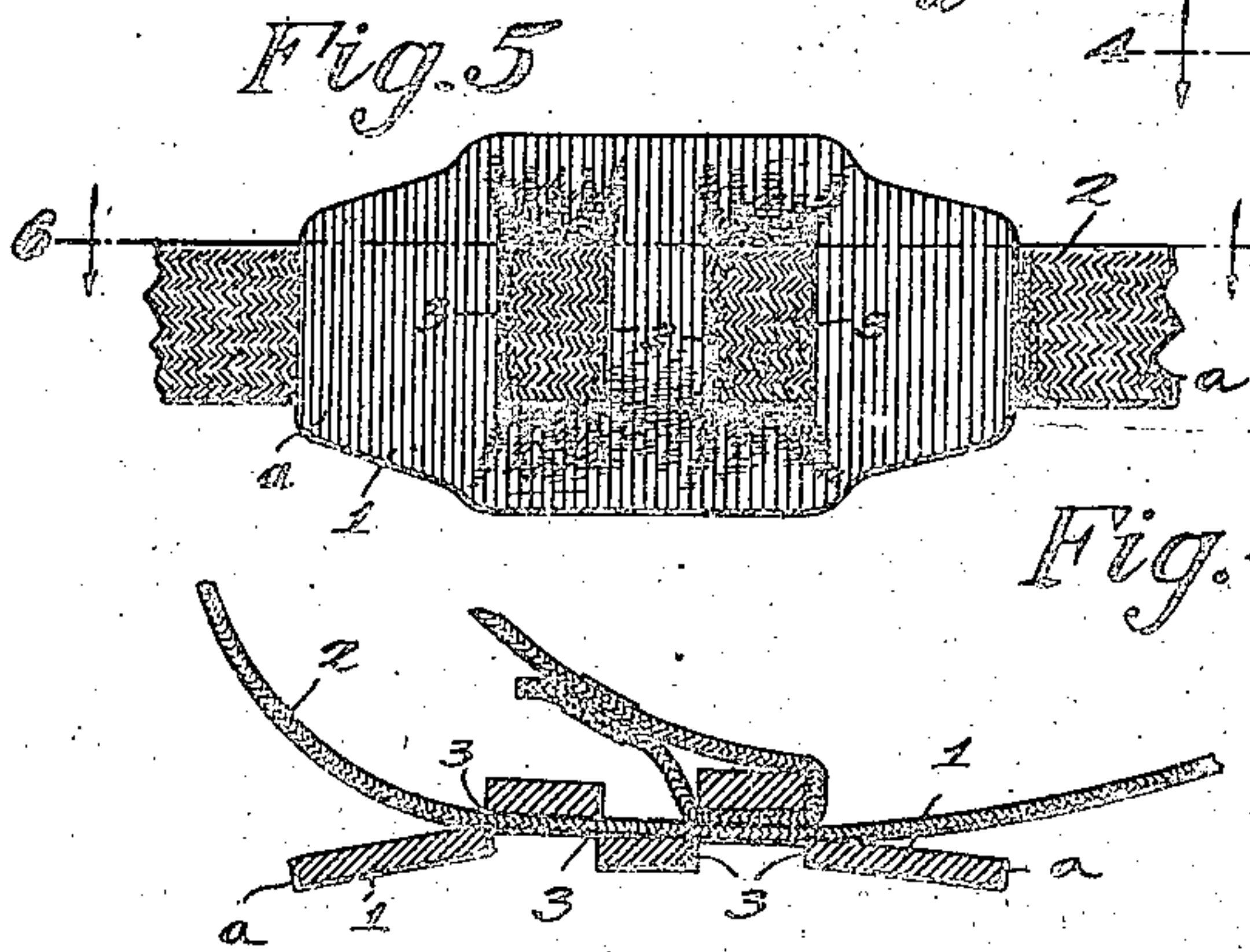


Fig. 3

Fig. 4

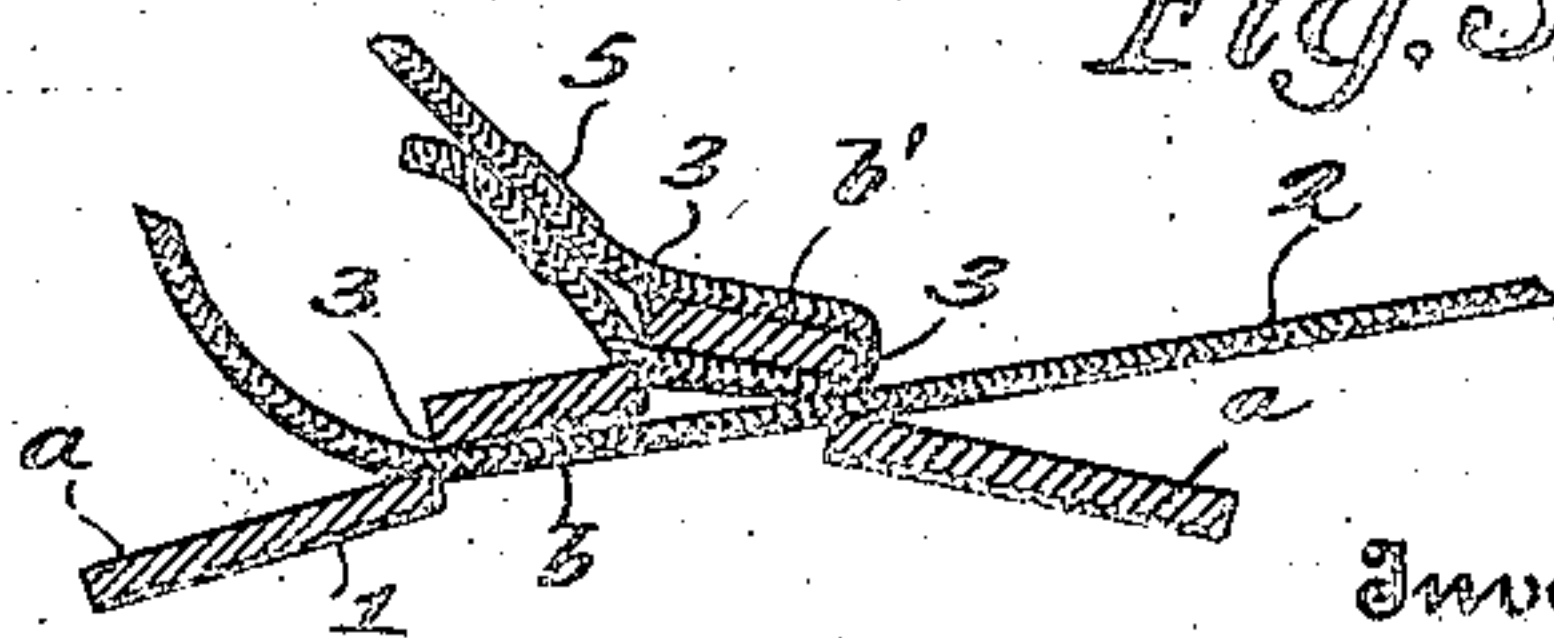


Fig. 5

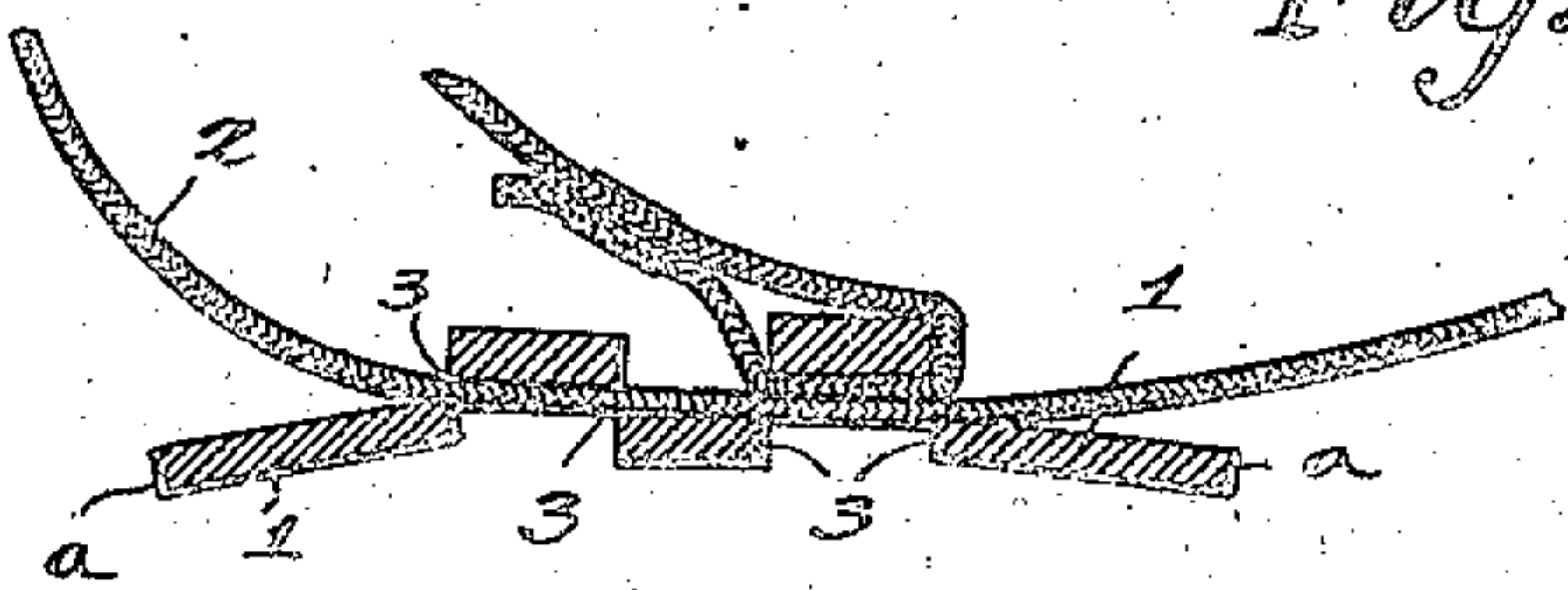


Fig. 6

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UNITED STATES PATENT OFFICE.

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STRAP SLIDE BUCKLE.

Application filed October 15, 1921. Serial No. 508,048.

To all whom it may concern:

Be it known that we, WILLIAM O. MILLER and OWEN BRADFORD, citizens of the United States, and residing at Newport and Florence, in the counties of Campbell and Boone and State of Kentucky, have invented a new and useful Improvement in Strap Slide Buckles, of which the following specification is a full disclosure.

Our invention relates to a strap buckle made of a single piece of flexible material, slitted for interlacing the strap upon the buckle, for a quick adjustment of the buckle upon the strap and for efficient friction binding of the engaged parts for maintaining the same in their adjusted position.

An object of the invention is to provide a flexible and durable strap buckle of a single piece of material, interlaced with the strap and having finger tabs at its opposite end for conveniently gripping the buckle for adjustment.

Other features and advantages of the invention will be more fully set forth in the description of the accompanying drawing, forming a part of this specification, and in the drawing like characters of reference denote corresponding parts throughout the several views of which:

Fig. 1 is a side elevation of a head harness for use by football players, with our improved quick adjustable buckle attached to the chin strap.

Fig. 2 is an edge view of a chin strap with a modified form of buckle.

Fig. 3 is a face view of the buckle and attached strap of the form shown in Fig. 2.

Fig. 4 is a section on line 4, 4 Fig. 3.

Fig. 5 is a face view of the buckle and attached strap of the form shown in Fig. 1.

Fig. 6 is a section on line 6, 6, Fig. 5.

The improved buckle is primarily adaptable for the fastening strap of head harness worn by football players, aviators, and motor-cyclists, requiring a quick and secure adjustment. It is desirable that a buckle for such paraphernalia be flexible and non-metallic so as not to be obstructive or cause injury to the wearer and which will provide for a quick and secure strap adjustment either for release or tightening.

The buckle 1 in both forms illustrated comprises a piece of pliable material, as leather, preferably of oblong or rectangular dimensions, and of a thickness to give it the

proper tenacity for securely binding the strap or band 2, interlaced in the buckle through parallel slits 3 and through the body of the material.

In the form shown in Figs. 2, 3, and 4, the buckle body is provided with the spaced parallel slits 3, each slit of a length slightly greater than the width of the strap or band 2, threaded through the slits and interlaced with the cross bars *b*, *b'*, formed by the slits. A free end of the strap as shown may be anchored or attached to the buckle by looping the strap about one of the bars, as *b'*, engaged through the slits forming said bar and fastening the free end of the strap upon itself by a fastener 5 or other fastening means.

The slits are cut at an intermediate portion of the body leaving an extension from the slits at opposite ends of the buckle, longitudinally, providing tabs *a—*a** for gripping the buckle at either end. The strap, from the buckle secured end, as in a chin strap for headgear, as a loop, extends through a slit in ear covering extension 7 of the headgear 8, as shown in Figs. 1 and 2, and thence in the form shown in Figs. 2 to 4 inclusive, passes from the underside of the buckle through an end slit, to the forward side of the buckle over the bars *b*, *b'*, and through the slit at the opposite end of the series of slits to the underside of the buckle. This presents the finger tabs *a—*a** at the face side of the strap for convenient gripping of the buckle to adjust the buckle upon the strap, to lengthen or shorten the strap reach as required.

The buckle is of sufficient thickness to possess the required stability for frictionally gripping the strap between the opposite edges of the adjoining transverse shoulders or edge surfaces formed by the slit, which is further increased by a transverse contracting pull of the material created in offsetting the slit edge surfaces to the thickness of the strap threaded through the slit. The looped end of the strap passing through several of the slits also augments the frictional binding of the parts. The strap being preferably an elastic webbing yields sufficiently to accommodate for any transverse folding or bending or longitudinal curvature the buckle may assume when the strap is extended over the curved or irregular surfaces, as in a chin band, for holding a head gear upon the head of an individual, without relaxation of the biting grip of the buckle upon the strap.

In the form shown in Figs. 1, 5, and 6, the buckle is provided with four parallel slits 3, providing three adjoining cross bars with which the strap is interlaced, in which instance the strap may be laced as shown, to present the two opposite outermost bars on the underside of the strap and the intermediate bar on the face side. The strap coacting faces of the bars frictionally bear against the strap to resist its movement, and the increased number of slits multiply the number of strap gripping edges, for increasing the buckle gripping function upon the strap. The buckle can be made of a leather stock, providing a flexible non-corrosive and durable device, for the purposes intended.

Having described our invention, we claim:

1. A strap buckle comprising a piece of pliable material, having an intermediate portion provided with a plurality of spaced parallel slits therethrough, through which a strap is threaded for interlacing with the buckle, the opposite ends of the material extended to provide tangs for drawing the buckle upon the strap, and the portion between a pair of slits providing a cross bar for securing a looped end of the strap to the buckle, the pliability of the buckle adapt-

ing the slits to be opened for lacing the strap through the buckle providing for a quick strap drawing adjustment through the buckle and for frictionally binding the strap in its adjusted position.

2. A strap buckle comprising a plane piece of pliable material having an intermediate portion thereof provided with a plurality of spaced parallel slits therethrough, through which a strap is threaded for interlacing with the buckle, and the portion between a pair of slits providing a cross bar for securing a looped end of the strap to the buckle, the pliability of the buckle adapting the slits to be opened for lacing the strap through the buckle providing for a quick strap drawing adjustment through the buckle and for frictionally binding the strap in its adjusted position.

In witness whereof we hereunto subscribe our names, as attested by the two subscribing witnesses.

WM. O. MILLER,
OWEN BRADFORD.

Witnesses:

WILLIAM A. SONNETT,
J. WESSLING.