

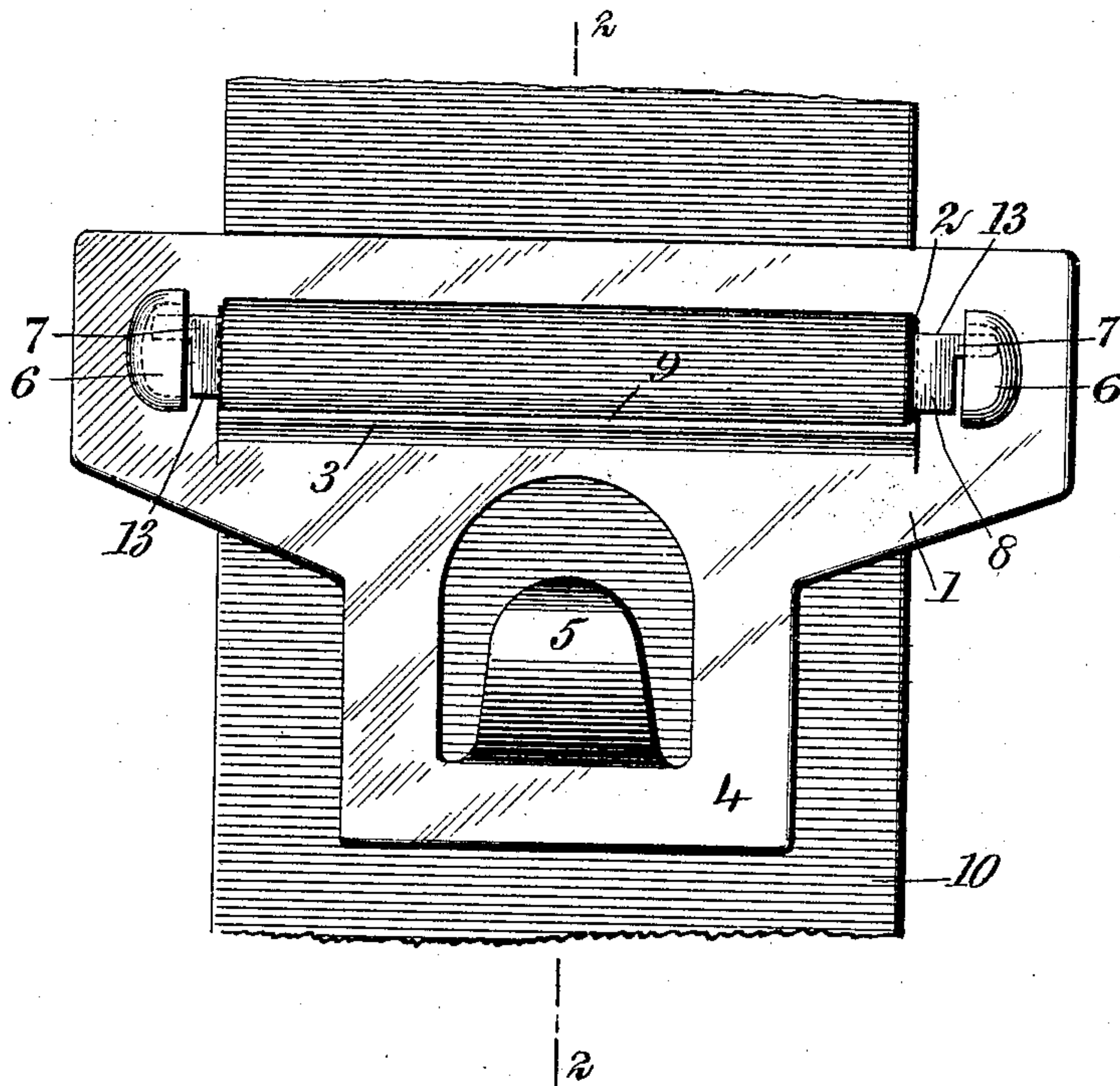
No. 829,776.

PATENTED AUG. 28, 1906.

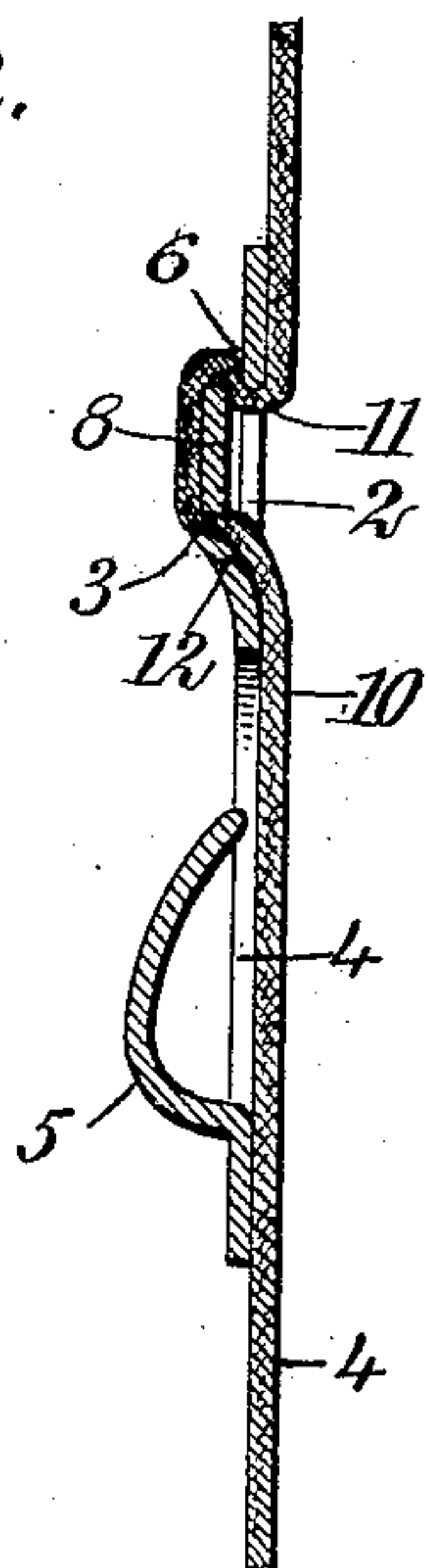
J. W. GONCE.  
BUCKLE.

APPLICATION FILED JULY 12, 1905.

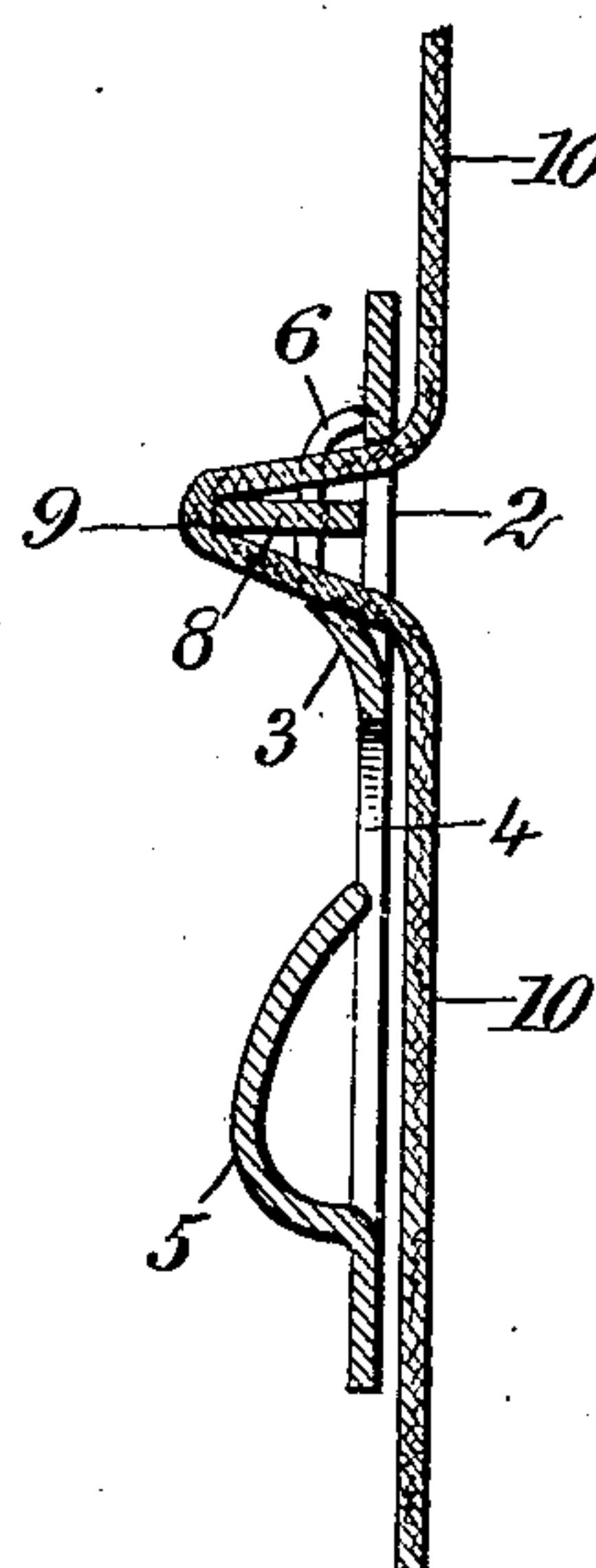
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN WISDOM GONCE, OF KINDERHOOK, ALABAMA.

## BUCKLE.

No. 829,776.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed July 12, 1905. Serial No. 269,397.

*To all whom it may concern:*

Be it known that I, JOHN WISDOM GONCE, a citizen of the United States, and a resident of Kinderhook, in the county of Jackson and State of Alabama, have invented a new and Improved Buckle, of which the following is a full, clear, and exact description.

This invention relates to buckles; and it consists, substantially, in the details of construction and combinations of parts hereinafter more particularly described, and pointed out in the claims.

The invention has reference more especially to buckles such as are employed upon the back-bands of harnesses, for instance, though applicable to other devices; and one of the principal objects thereof is to provide a buckle which is simple in construction and comparatively inexpensive to manufacture, besides being effective and reliable for its purposes and possessing the capacity for long and repeated service.

The above and additional objects are attained by means substantially such as are illustrated in the accompanying drawings, in which—

Figure 1 is a front or face view of a buckle embodying my improvements, the same being shown as applied to a back-band or the like. Fig. 2 is a vertical sectional view thereof on the line 2 2 of Fig. 1, and Fig. 3 is a similar view illustrating the position to which the swing-bar of the structure is turned for enabling the proper insertion of the back-band, web, or other device upon which the buckle may be employed.

Before proceeding with a more detailed description it may be stated that in the form of my improvements herein shown I employ a base-plate or body of special construction, associated with certain parts of which is a specially-constructed swing-bar or tongue for effectively engaging the back-band, web, or other device on which the structure may be employed. The swing-bar is mounted in special bearings therefor, preferably formed integrally with the base-plate or body, and the embodiment is such that the back-band, web, or other device is securely clamped at different places and for the full width thereof between the swing-bar and parts of the base-plate, thus to derive a more secure and effective fastening for the said back-band, web, or the like.

While I have herein represented my improvements in a certain preferred embodi-

ment, it will be understood, of course, that I am not limited thereto in precise detail, since immaterial changes therein may be made coming within the scope of my invention.

Reference being had to the drawings by the designating characters thereon, 1 represents the base-plate or body of my improved buckle in entirety, the same being of proper dimensions and formed therein with a longitudinal slot 2, the lower longer edge 3 of which is turned outwardly at an inclination to the face of this base-plate, as clearly shown in Figs. 2 and 3. The said base-plate or body is formed with an extension 4, having preferably struck up therefrom a hook 5 for engaging with any suitable part of a harness, or, as will be readily understood, said hook 5 may be formed or constructed in any other suitable way.

Adjacent to the ends of the longitudinal slot 2 are bearings 6, in which are received and rotatably supported the end extensions or trunnions 7 of a swing-bar or tongue 8, said extensions or trunnions being preferably located practically in line with one of the longer or longitudinal edges of the said swing-bar or tongue, so as to enable the other longer or longitudinal edge 9 of the latter to be swung outwardly relatively to the face or front of the base-plate or body, as indicated in Fig. 3. When in this position, the back-band, web, or other device 10 may be inserted through the slot 2 of the base-plate 1 and carried around the said longer or longitudinal edge 9 of the swing-bar 8 and thence back through the said slot after being brought into contact with the outwardly-inclined lower edge 3 of the slot. After the back-band, web, or other device 10 has been thus inserted the swing-bar 8 is turned in the direction of the face of the body-plate and pressed upon by the thumbs of the operator in such manner as to securely clamp the back-band, web, or other device across the full width of the same between its longitudinal edges and the face of the body-plate points, (indicated at 11 and 12 in Fig. 2.) When thus organized with the back-band, web, or the like, the swing-bar may have slight movement to and from the flange 3, so as to readily be self-adjusting to back-bands, webs, or the like of varying thicknesses, and it is apparent that then the swing-bar, web, or the like will be firmly clamped practically on both sides of the swing-bar between the edges of the latter and the adjacent edges of the said slot 2 in



the body-plate. Moreover, the buckle will be more firmly tightened upon the backband, web, or the like with each increment of strain imposed upon the latter, due to the tendency (under such conditions) of the longer or longitudinal edge 9 of the swing-bar being forced past or under the said outwardly-inclined edge 3 of the slot 2.

The bearings 6 for the end extensions or trunnions 7 of the swing-bar 8 are preferably integral with the material of the body-plate 1, the same being usually formed by striking up portions of such material at the proper places and then providing openings therein for the reception of the said end extensions or trunnions. These openings are somewhat deeper on the side opposite the flange 3, so as to allow the longer edge of the swing-bar to ride on the web or the like in the act of locking, and portions 13 of the metal of the tongue are left between the ends of the slot and the openings to support the swing-bar. The length of the swing-bar or tongue is somewhat in excess of the length of the slot 2, so that while in some instances the longer longitudinal edge 9 of the swing-bar is tended to be carried forcibly in the direction of the face of the body-plate 1 still the said swing-bar is prevented from ever being carried within or through the slot 2 of the body-plate, as will be understood, because it is supported at its ends by the strips 13 between the slot and bearings 6.

From the foregoing it is thought the construction and operation of my improved buckle will be fully understood and also that the same possesses decided advantages as compared with many former structures of the kind hitherto devised with like objects in view.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A buckle comprising a body-plate provided with a longitudinal slot and an integral hook, a swing-bar of greater length than the slot and having eccentric trunnions, the body-plate having bearings near the ends of the slot provided with elongated openings for receiving the trunnions, and the edge of the slot being turned outwardly at an angle to the body-plate, whereby to oppose the edge of the swing-bar when closed.

2. A buckle, comprising a body-plate, provided with a longitudinal slot and with transversely-elongated bearings spaced apart from the ends of the slot, the width of the bearings being approximately equal to the ends of the slot, and a swing-bar of a width approximately equal to the slot and of greater length, and provided with eccentric trunnions for engaging the bearings, one edge of the slot being upturned at an angle to the body-plate and opposite the edge of the swing-bar when in closed position.

3. A buckle comprising a body-plate having a longitudinal slot and provided with transversely-elongated bearings spaced apart from the ends of the slot, and a swing-bar of greater length than the slot having eccentric trunnions for engaging the bearings, the edge of the slot being upturned at an angle to the body-plate to oppose the edge of the swing-bar when in closed position.

4. A buckle comprising a body-plate having a longitudinal slot and provided with transversely-elongated bearings spaced apart from the ends of the slot, the body-plate at one of the edges of the slot being upturned, a relatively narrow swing-bar having trunnions for engaging the bearings, the edge of the swing-bar when in closed position being spaced apart from the upturned edge of the slot.

5. A buckle comprising a body-plate having a longitudinal slot and provided with bearings spaced apart from the ends of the slot, and a swing-bar of greater length than the slot having trunnions for engaging the bearings, the edge of the slot being upturned whereby to oppose the edge of the swing-bar when in closed position.

6. A buckle comprising a body-plate having an integral hook and a longitudinal slot, one of the edges of the slot being upturned at an angle to the body-plate, and a relatively narrow swing-bar mounted to swing at the side of the slot opposite the upturned edge.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN WISDOM GONCE.

Witnesses:

J. H. SENTELL,  
F. L. GONCE.