

No. 726,312.

PATENTED APR. 28, 1903.

A. W. KRUEMLING.

BUCKLE.

APPLICATION FILED JAN. 25, 1902.

NO MODEL.

FIG. 1.

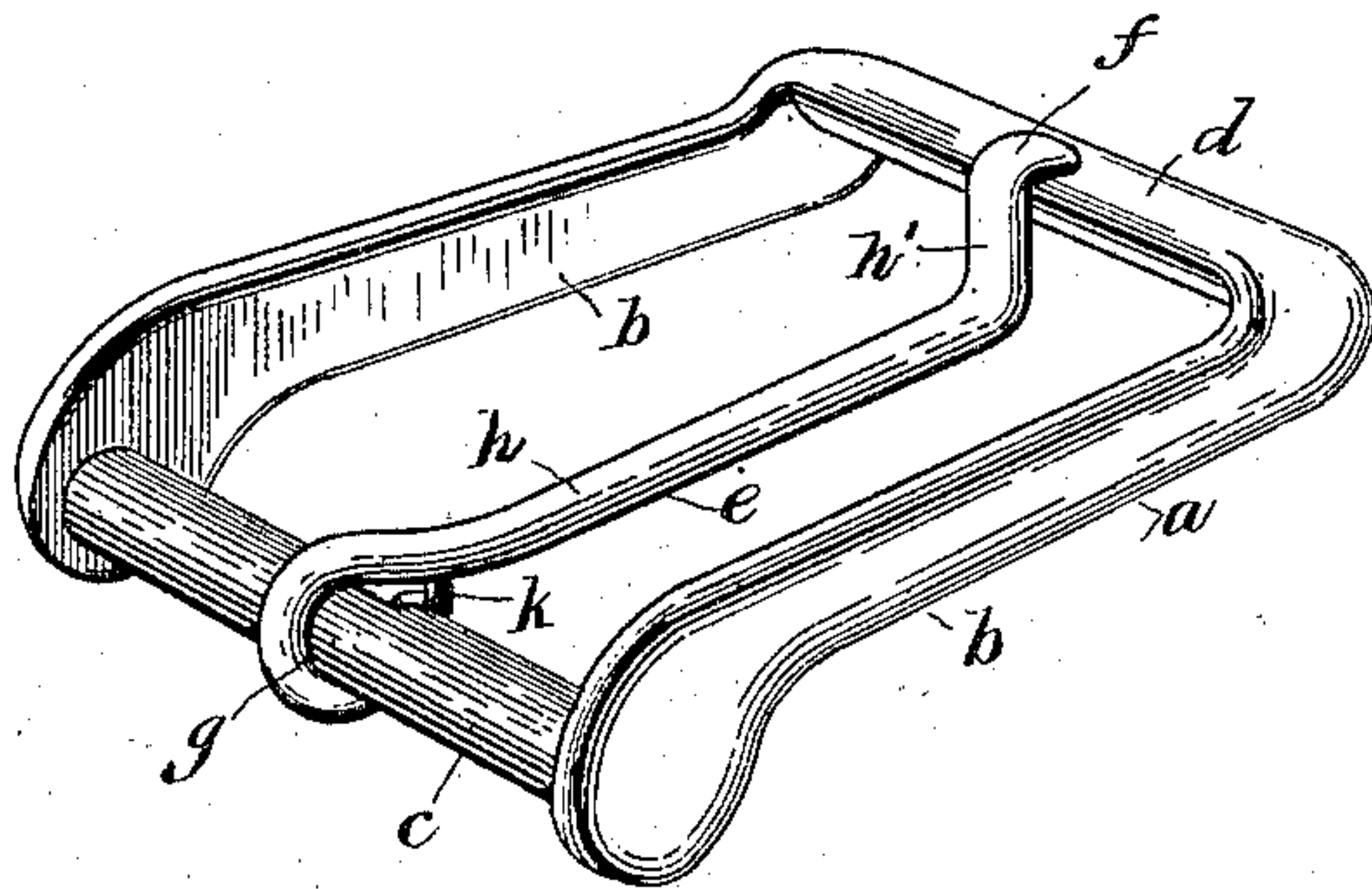


FIG. 3.

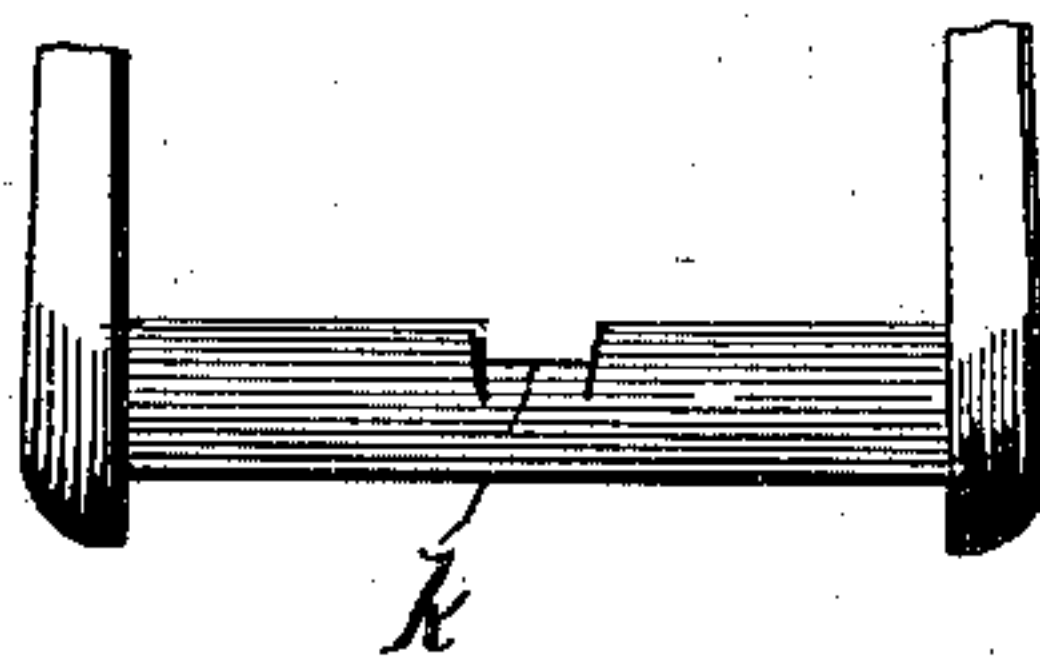


FIG. 2.

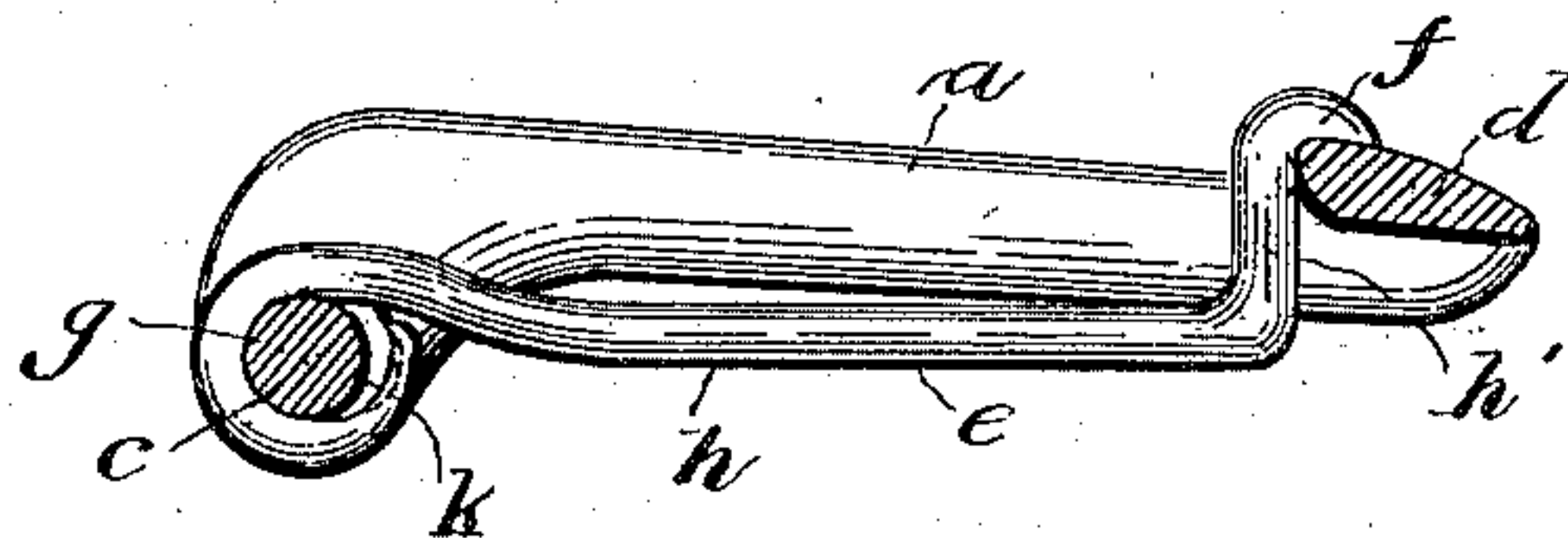
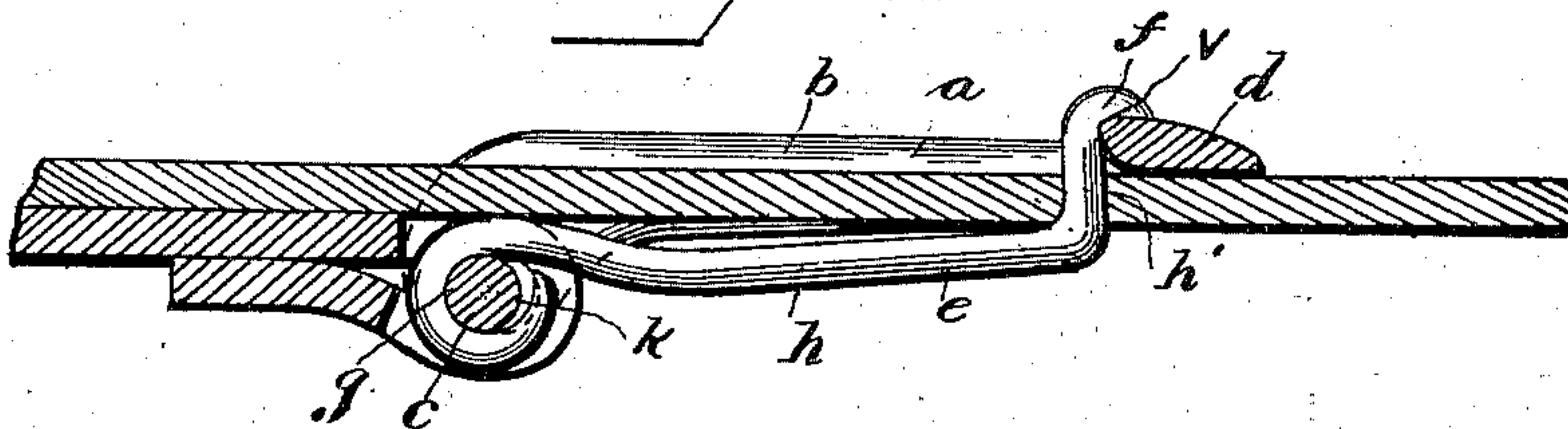


FIG. 4.



Inventor

A. W. Kruemling

Witnesses

R. A. Boswell
George M. Anderson.

By

E. W. Anderson

his

Attorney

UNITED STATES PATENT OFFICE.

AUGUST W. KRUEMLING, OF ANDERSON, INDIANA.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 726,312, dated April 28, 1903.

Application filed January 25, 1902. Serial No. 91,229. (No model.)

To all whom it may concern:

Be it known that I, AUGUST W. KRUEMLING, a citizen of the United States, and a resident of Anderson, in the county of Madison and State of Indiana, have made a certain new and useful Invention in Buckles; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of my buckle. Fig. 2 is a longitudinal section of the same. Fig. 3 is a plan view of the rear end portion of the buckle. Fig. 4 is a longitudinal section of the buckle and showing the strap.

The invention relates to buckles, especially for traces or straps; and it consists in the novel construction and combinations of parts, as hereinafter set forth.

In the accompanying drawings the letter *a* designates the buckle-frame, which is of ordinary character, usually comprising the side bars *b b*, the rear pivot-bar *c*, connected to downward extensions of one end portion of said side bars, and the front frame-bar *d*, located at the opposite ends of said side bars and about on a level with the upper edges of the same. The tongue *e* is pivoted on the bar *c*, and its terminal offset *f* bears on the bar *d*, which is at a higher level than the bar *c*.

The tongue *e* comprises the pivotal portion or eye *g*, the depressed shank *h*, extending parallel to the general direction of the side bars, but at a lower level, the holding portion *h'* at right angles to the shank, and the terminal offset *f* at the end of said holding portion and parallel with said depressed shank.

The buckle is attached by means of its pivotal bar. The trace or strap is readily connected by passing it through the frame, the terminal offset of the tongue being at the same time inserted through the proper perforation of the trace or strap in such a manner as to clear the same, the perforation then engaging the rectangular holding portion *h'* of

the tongue. The strap is thus held in position on the shank of the tongue lying over the pivotal bar and under the front frame-bar *d*, so that its direction is parallel with the general direction of the side bars and at right angles to that of the holding portion *h'* of the tongue. The strain on the strap is therefore squarely against the wall of the perforation with which the holding portion engages, and the buckle-frame is locked on the strap by means of the terminal offset of the bearing portion.

In this improvement it is designed to provide for a distribution of the strain over the length of the buckle-frame in a direct manner in such wise as to avoid a breaking strain. The strain is a square pull on the holding portion of the tongue, which is supported by the pivot-bar engaging the eye and the front frame-bar engaging the upper end of the holding portion *h'* at its junction with the terminal offset, this engagement in the angle *r*, formed by said offset and holding portion, being allowed for by the play of the eye of the tongue on the pivotal bar. This play is provided for by making the pivotal bearing *k* of the pivot-bar somewhat smaller than the elongated or elliptical eye of the buckle-tongue, the major axis of this eye having a parallel relation to the depressed shank of the tongue. In the construction shown the bearing *k* is reduced, the pivot-bar being larger on each side of it, so as to prevent the eye from having such lateral movement as to throw it out of position.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The buckle, comprising the buckle-frame having the side bars provided with downward extensions at one end, and with a front frame-bar at their opposite ends, and substantially on a level with the upper edges of said side bars, the pivot-bar connected to said downward extensions and at a lower level than said side bars and front frame-bar, and having a reduced bearing, and the tongue having its depressed shank extending parallel to said

side bars and at a lower level than the front
frame-bar, and having an elongated or ellip-
tical eye with its major axis about parallel
with said shank, the holding portion of said
5 tongue at right angles to said shank and
adapted to engage the inner margin of said
front frame-bar, and the terminal offset of
said holding portion adapted to rest upon the

top of said frame-bar and parallel with said
depressed shank, substantially as specified. 10

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

AUGUST W. KRUEMLING.

Witnesses:

JULIA A. MOORE, .

DE WITT C. CHIPMAN.