

No. 706,857.

Patented Aug. 12, 1902.

G. SCHNEIDER.
TONGUELESS BUCKLE.
(Application filed Apr. 29, 1901.)

(No Model.)

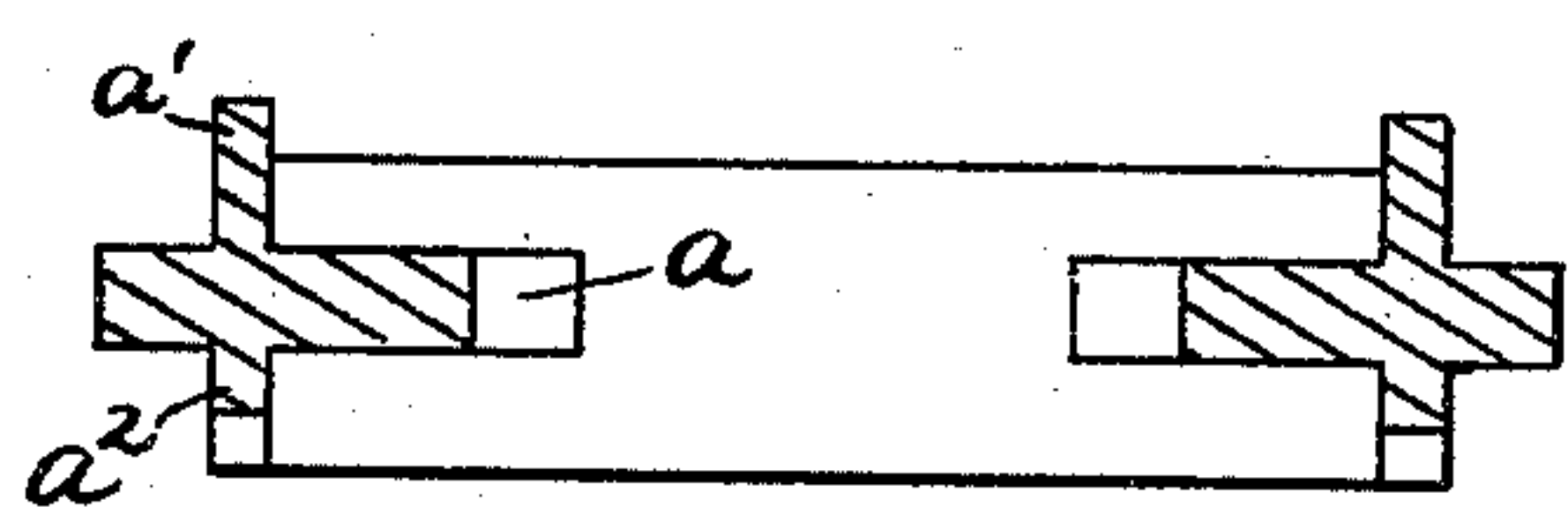
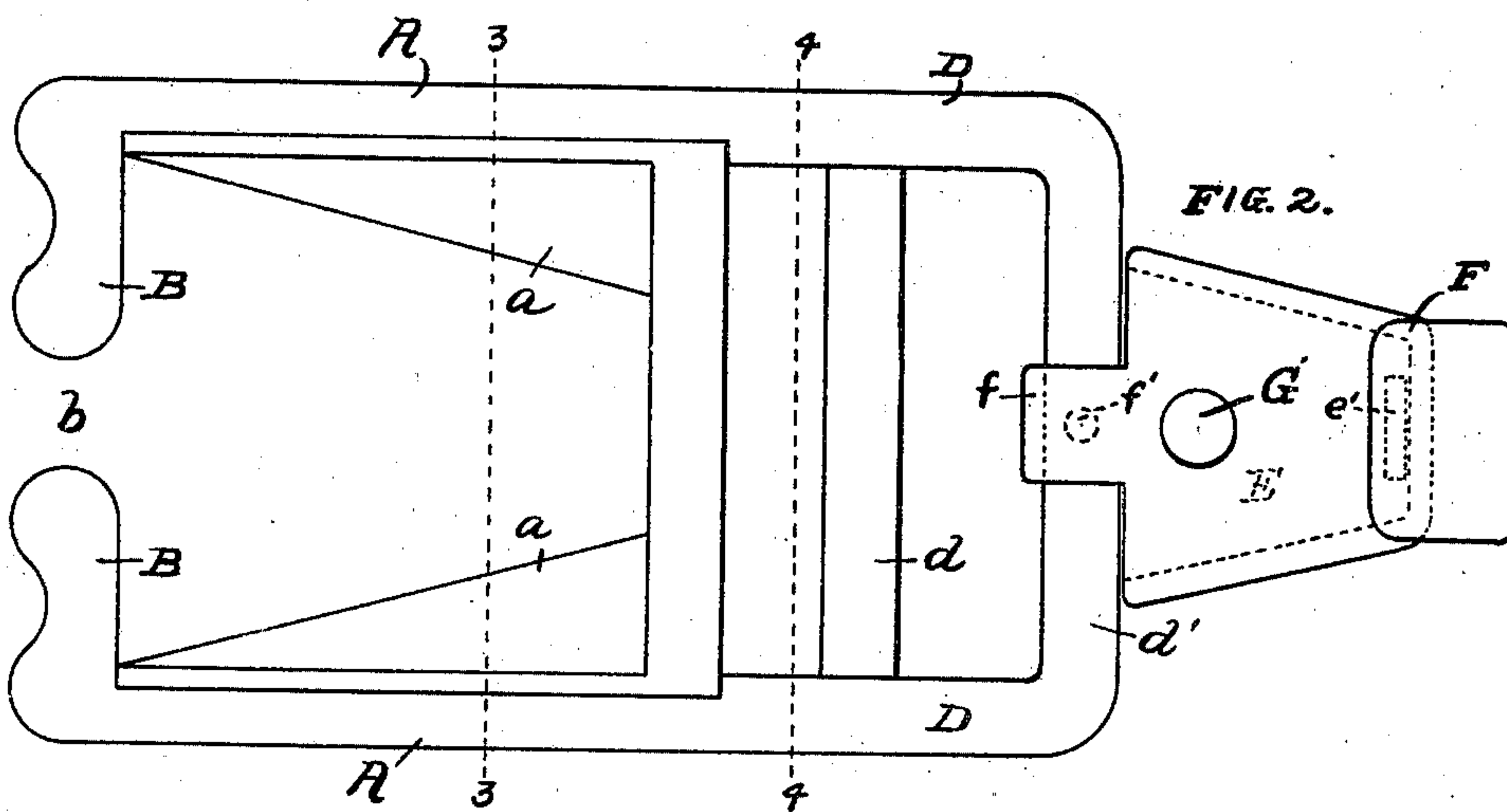
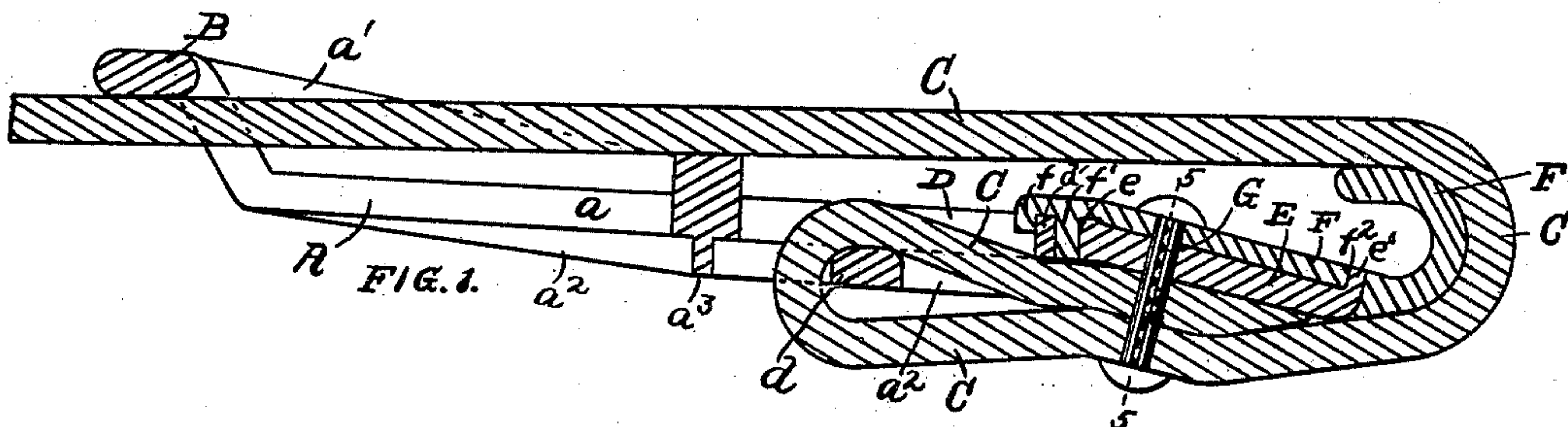


FIG. 3.



FIG. 4.

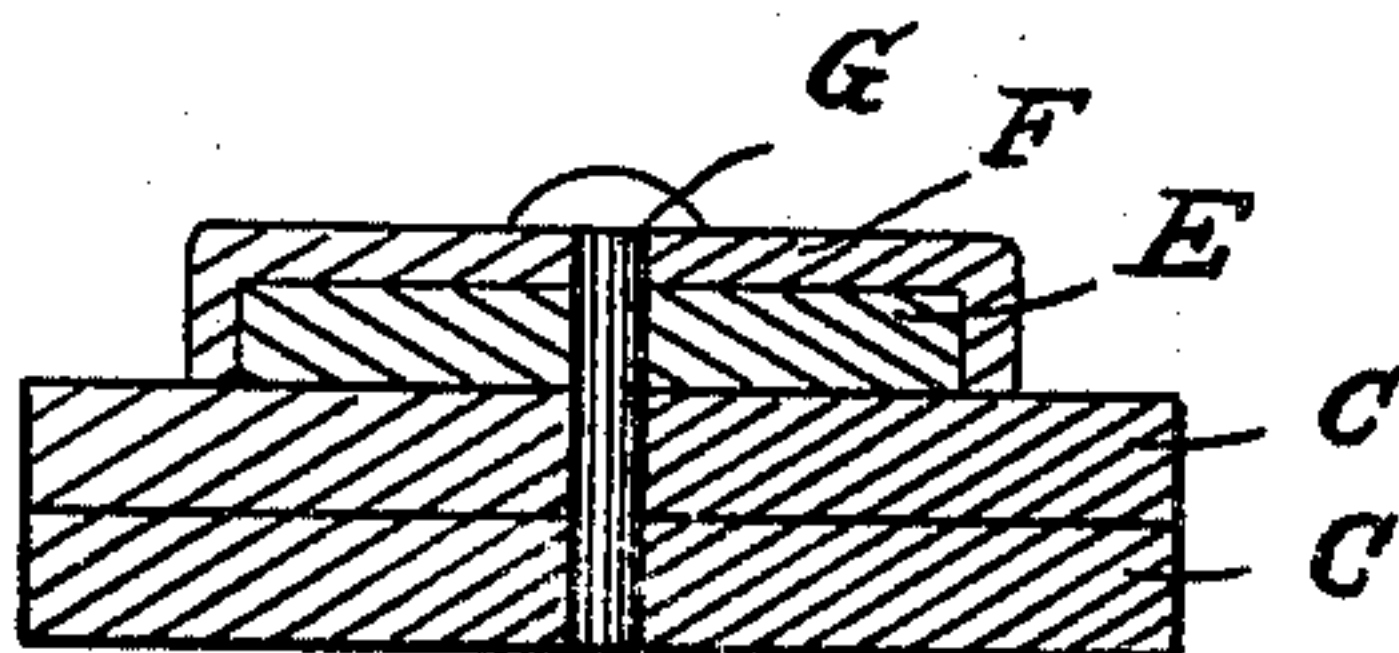


FIG. 5.

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GEORGE SCHNEIDER, OF NEWPORT, KENTUCKY.

TONGUELESS BUCKLE.

SPECIFICATION forming part of Letters Patent No. 706,857, dated August 12, 1902.

Application filed April 29, 1901. Serial No. 58,002. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SCHNEIDER, a citizen of the United States, residing at Clifton Heights, Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Tongueless Buckles, of which the following is a specification.

The object of my invention is to provide a tongueless buckle of improved construction; and the invention consists in the parts, combinations, and arrangements of parts hereinafter described and claimed.

In the drawings, Figure 1 is a vertical section of a portion of strap provided with a buckle embodying my invention; Fig. 2, a top plan view of the buckle; Fig. 3, a section on line 3 3 of Fig. 2; Fig. 4, a section on line 4 4 of Fig. 2, and Fig. 5 a section on line 5 5 of Fig. 1.

The buckle consists of the rectangular-shaped frame portion A, provided with the bar B, having an opening *b* for the insertion of the strap C edgewise. The open bar B is raised from the general plane of the frame A, as indicated in Fig. 1. In order to stiffen the frame A, it is provided with the inwardly-projecting triangular-shaped flanges *a*, which prevent it from spreading or collapsing with the upper and lower vertical flanges *a'* and *a''*, respectively, which prevent bending in a vertical transverse plane, and with vertical flange *a'''*, which prevents bending in a vertical longitudinal plane. Owing to the triangular shape of flanges *a* they strengthen frame A at its points of greatest strain—i. e., near frame D—while they leave the other portion of the inclosed area of frame A open for the free insertion and accommodation of strap C. At the forward end the frame A is provided with a strap-attaching frame D, provided with an intermediate bar *d*, which is preferably placed in a plane below the general plane of frame D by securing it to flanges *a''*, extended. The forward bar *d'* of frame D is provided with a projecting lip E, to which is secured a hook F. In order to make the con-

nection between hook F and lip E detachable before the final riveting, the shank of the hook is preferably provided with lug *f*, pin *f'*, and slot *f''*, engaging, respectively, the rear side of bar *d'*, pin-hole *e* in lip E, and lug *e'* on lip E. To secure strap C to the buckle, the end of the strap is looped over bar *d* and brought forward under lip E and rivet G, passed through the shank of hook F, lip E, and both thicknesses of strap C, as indicated in Fig. 1. To utilize the buckle, hook F is engaged with the ring or other object to which the end of the strap is to be attached and the strap bent to encompass hook F and inserted through opening *b* in bar B.

Owing to the peculiar location of hook F it is the part of greatest strain, and therefore is most often broken or damaged. By making hook F detachable I am enabled to replace it when broken or damaged without discarding the remainder of the buckle.

It will be noted that hook F will relieve strap C from the major portion of strain and wear, and that owing to the fact that bar B is in a raised plane the strap will pass through the buckle in straight lines, thus preventing wear on the bars of the buckle.

I claim as my invention—

1. The combination in a tongueless buckle, of frame A; attaching-frame D provided with bar *d*; a strap looped over bar *d*; projection E on frame D; and hook F detachably secured to frame D by means of lugs *f* and *e'* and pin *f'*, substantially as specified.

2. The combination of buckle-frame A, having flanges *a*, *a'* and *a''* and the raised open bar B; attaching-frame D, having intermediate bar *d* and projection E; hook F, and strap C, looped over bar *d* and secured to projection E and hook F, substantially as specified.

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