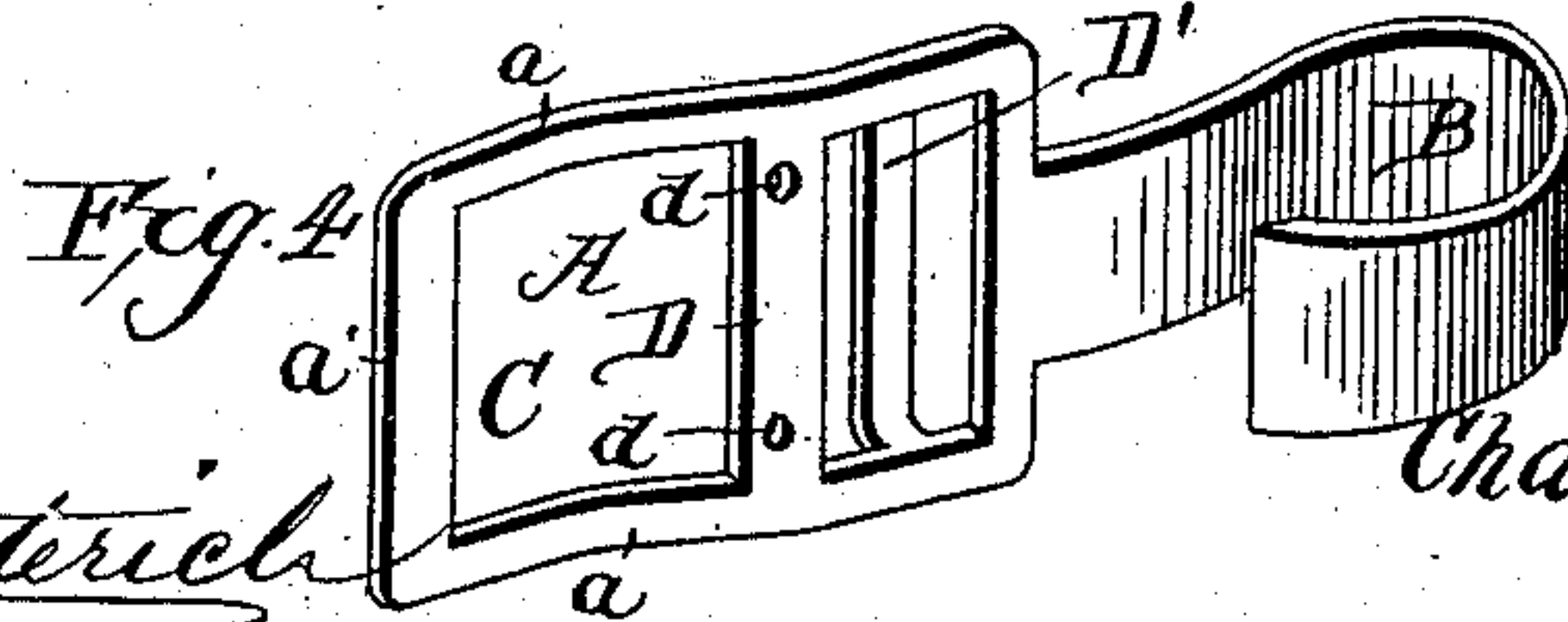
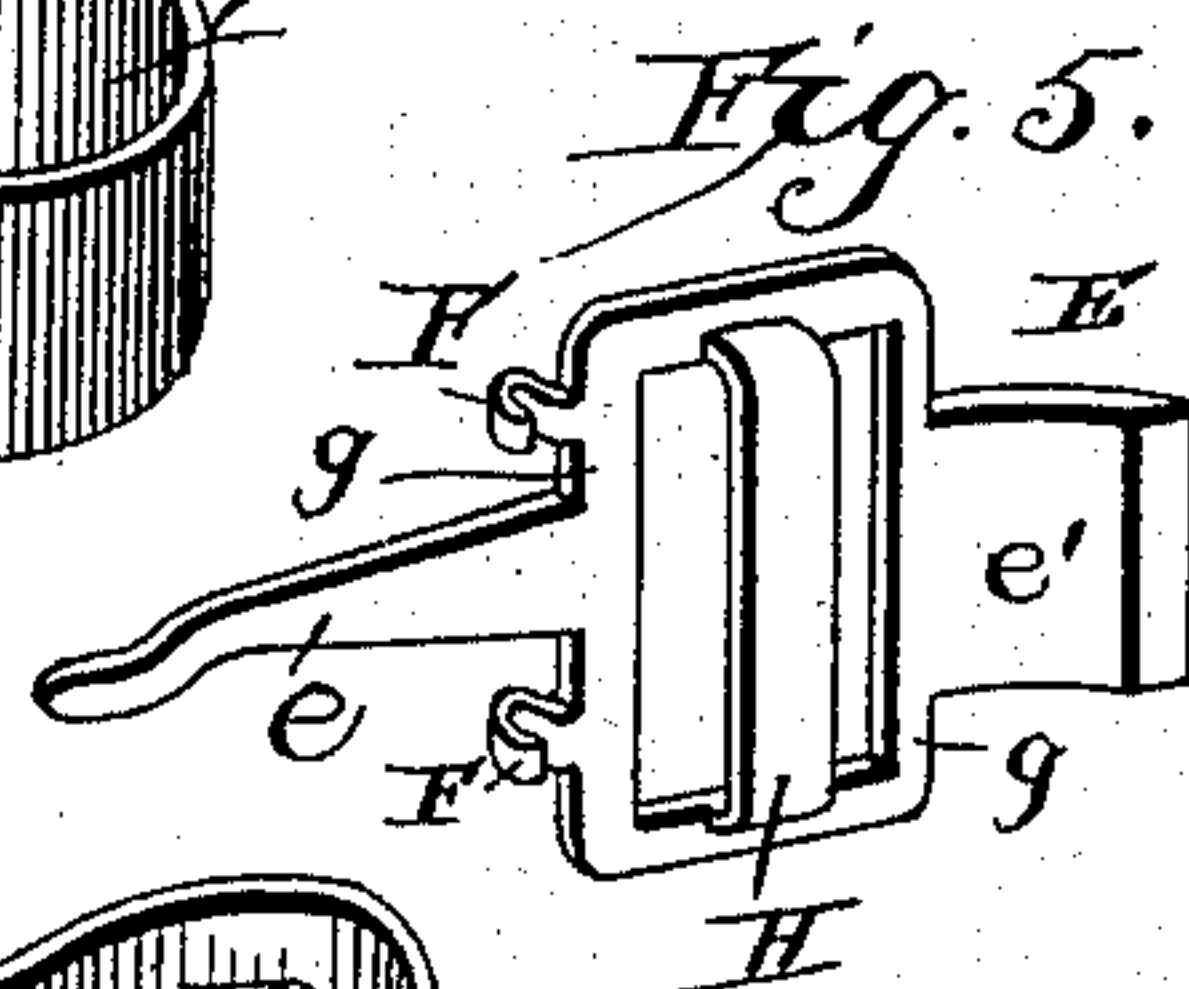
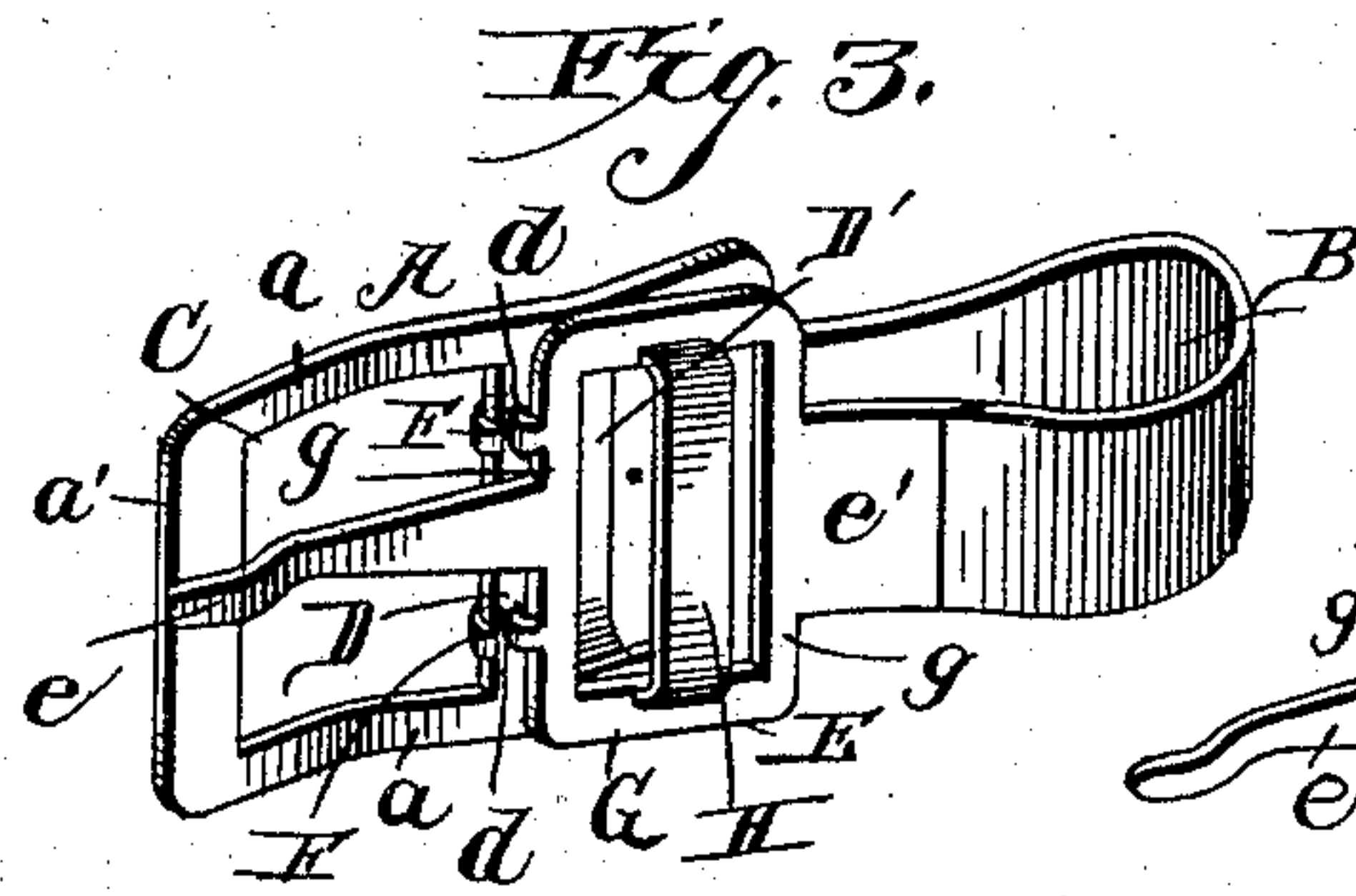
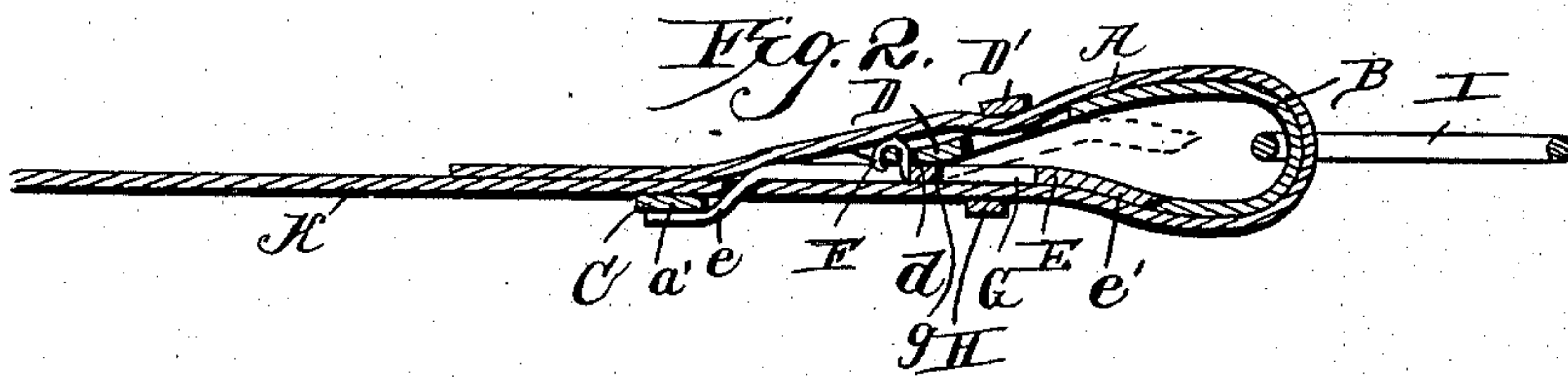
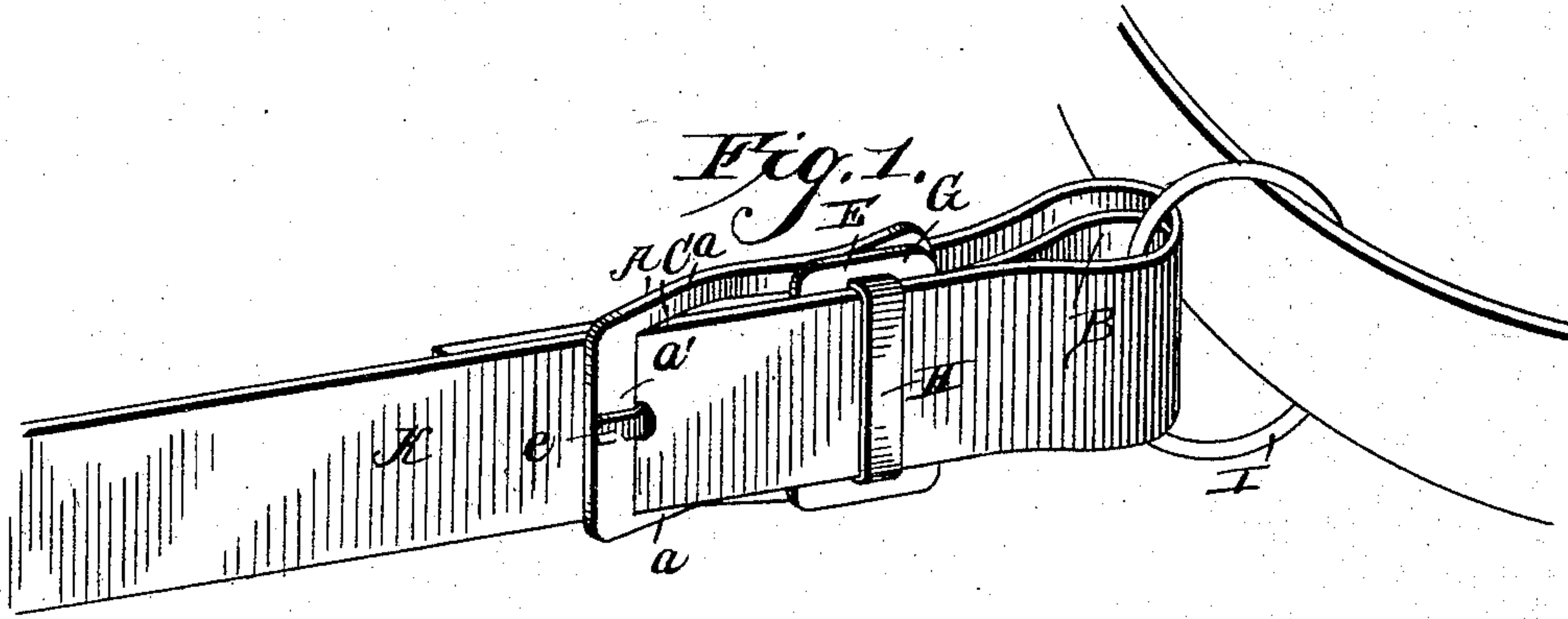


(No Model.)

C. SMITH.
COMBINED BUCKLE AND SNAP HOOK.

No. 416,868.

Patented Dec. 10, 1889.



Witnesses

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CHARLES SMITH, OF ROGERS, ARKANSAS.

COMBINED BUCKLE AND SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 416,868, dated December 10, 1889.

Application filed February 28, 1889. Serial No. 301,441. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SMITH, a citizen of the United States, residing at Rogers, in the county of Benton and State of Arkansas, have invented new and useful Improvements in Buckles for Harness, of which the following is a specification.

The invention relates to improvements in buckles for harness, having for its object to provide a simple, cheap, durable, and effective device which combines a snap-hook and buckle; and it consists in a certain novel construction and combination of parts, fully described hereinafter in connection with the accompanying drawings, and specifically pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the improved buckle applied in the operative position to a halter-strap. Fig. 2 is a longitudinal central sectional view of the same. Fig. 3 is a detail view of the buckle with the strap removed. Fig. 4 is a detail view of the frame A, and Fig. 5 is a detail view of the swinging bar.

Referring to the drawings by letter, A designates the rectangular frame of the buckle, having a hook B integral with its front end, and a flat loop C is formed in the inner side of the buckle-frame between and parallel with the parallel cross-bars D D'. The cross-bars and loop connect the side bars *a a* of the buckle-frame, and the bar D is provided with perforations *d d*.

E designates a swinging bar, which is arranged on the outer side of the buckle-frame and is provided with the clips or ears F F, which engage the bar D by passing through the perforations *d d* and bending outward around the edge of the bar. This swinging bar is tapered in width toward the rear end to form the buckle-tongue *e*, which bears at its free end on the outer side of the end bar *a'* of the buckle, and the broad front end *e'* of the swinging bar bears against the inner side of the free end of the hook B, as shown clearly in Fig. 2 of the drawings. It will be seen that the swinging bar is pivoted to the frame between the buckle-tongue *e* and the snap-hook tongue *e'*, whereby as the former is swung away from the end bar of the buckle the latter also swings inward, as shown in dotted lines in Fig. 2, out of contact with the free end of the hook.

The swinging bar is provided adjacent to the point of connection with the buckle-frame with an enlargement G, having the parallel cross-bars *g g*, and a loop H is formed on the front side of the swinging bar midway between and parallel with the cross-bars *g g*.

This combined buckle and snap-hook may be used in various parts of the harness to connect the parts thereof; but I have shown it in the drawings applied to a halter or rein-strap K, which passes through the buckle-frame and is engaged by the free reduced end of the tongue *e*, passes through the loop on the outer side of the swinging bar, extends around the hook B, thereby covering the free end of the hook and the hook-tongue *e'*, and passes through the loop on the inner side of the buckle-frame. When it is desired to engage or disengage the bit-ring I, the free end of the strap is withdrawn from the loop on the frame of the buckle, and the snap-hook tongue is depressed out of contact with the free end of the hook by pressure on the loop H, thereby allowing the ring to pass freely. The ring cannot be detached while the free end of the strap is engaged in the loop C. The perforation in the strap, which is engaged by the buckle-tongue, cannot slip forward on the said tongue, and thereby permit the free end of the tongue *e'* to swing away from the end of the hook, because of the tapered shape of the said buckle-tongue.

The buckle as described is simple and cheap in construction, as it comprises only two parts, both of which may be struck from sheet metal or made from any other metallic substance, as shown in the drawings. The loop C is struck up from the plane of the buckle-frame and the loop H is struck up from the plane of the swinging bar, it being preferred to have the said loops very little above the planes of the parallel bars on opposite sides thereof, so that the strap is slightly depressed by said loops, and is thereby held from slipping. This construction of the loops and the parallel bars on opposite sides thereof is of special importance, and great stress is therefore laid thereon.

Having thus described the invention, I claim—

1. The buckle-frame terminating at one end in a hook and at the other end in a lateral loop having a cross-bar and a second offset

cross-bar at one side of the main bar, in combination with the tongue-frame consisting of the central frame portion connected at its front end to the main cross-bar of the buckle-frame and having an outwardly-off-set cross-bar aligning with that of said buckle-frame and terminating at one end in a buckle-tongue to coact with the buckle-frame loop and at the other end in a tongue adapted to coact with the hook on the buckle-frame, substantially as specified.

2. The combination of the buckle-frame A, having the integral hook B, the parallel bars D D', and the upstruck loop C at one side of said bars, and the swinging bar E, connected to the bar D', tapered toward its rear end to form the buckle-tongue *e*, bearing at its front end against the loop C, and the snap-hook tongue *e'*, bearing against the free end of the

hook B and provided with an intermediate loop H, substantially as specified.

3. In a buckle, the frame A, having the cross-bar D, perforated, as at *d*, and offset bar D, and having the hook B at one end and the loop C at the other end, combined with the swinging bar E, having bars *g g* and H, and hooks F F, engaging the perforations *d* *d*, and thus hinged to the frame A and provided with a tongue *e* to bear on the loop C and the tongue *e'* to bear on the hook B, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHARLES SMITH.

Witnesses:

H. M. FRAIZER,

A. B. HEAD.