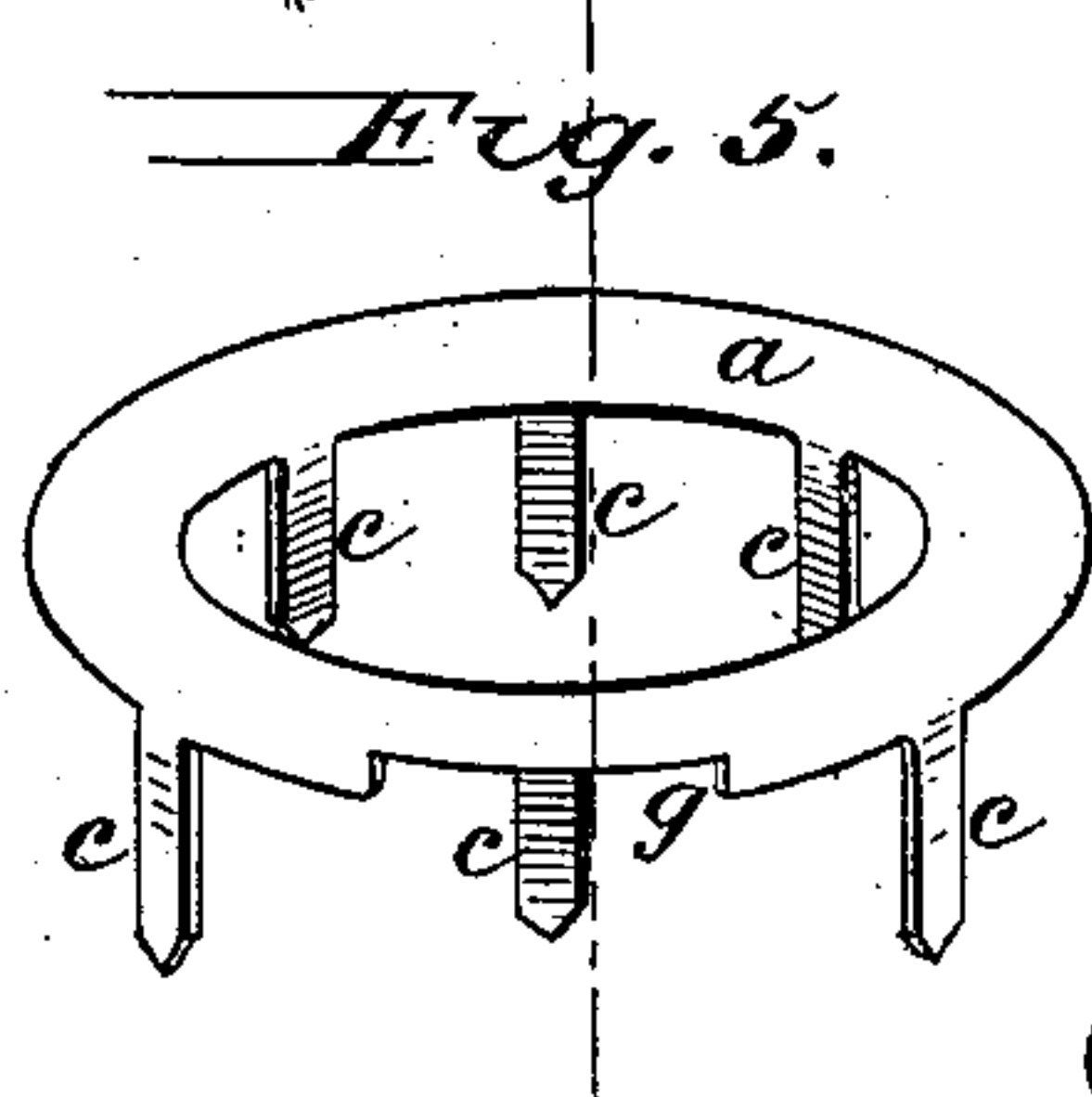
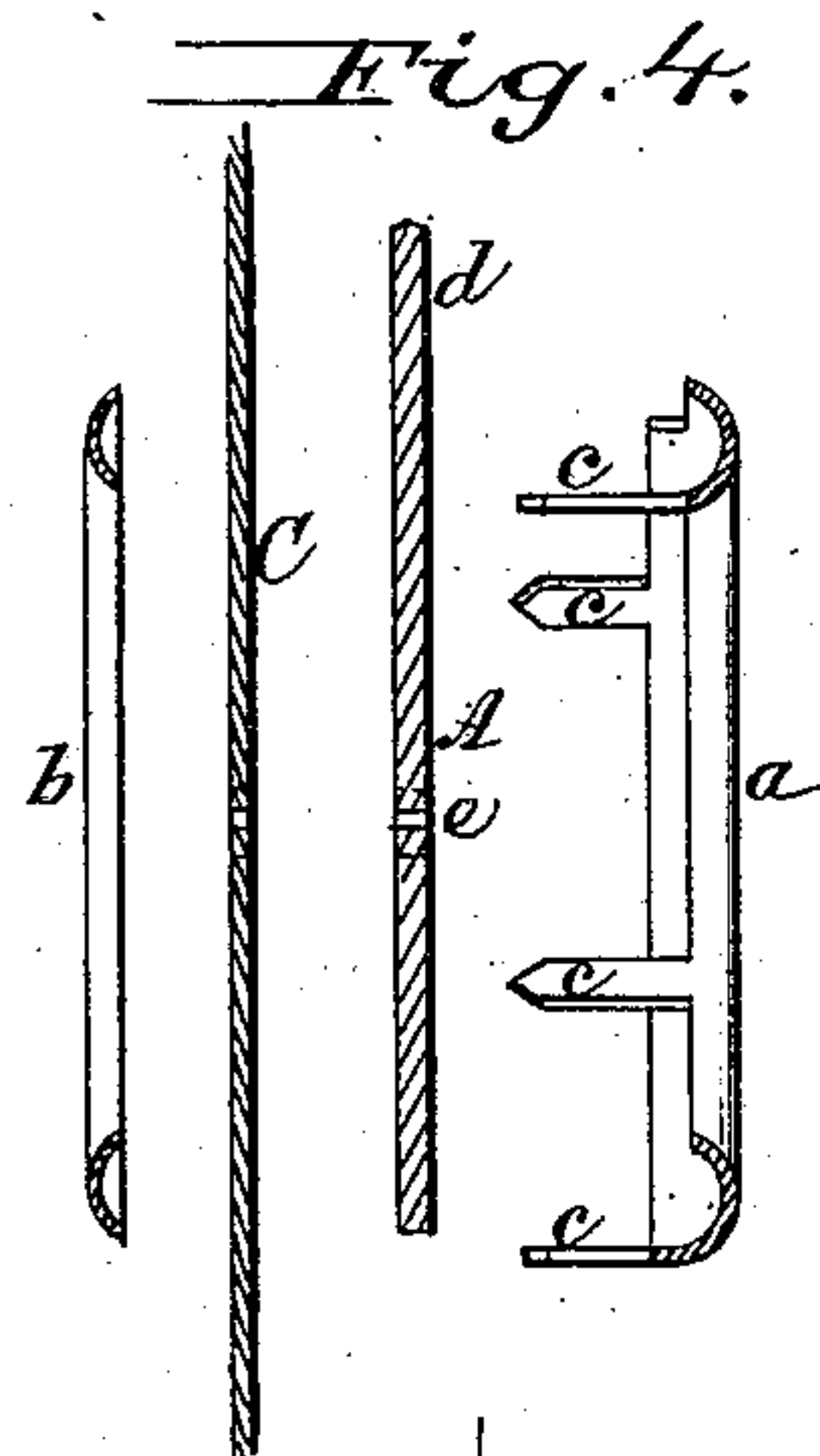
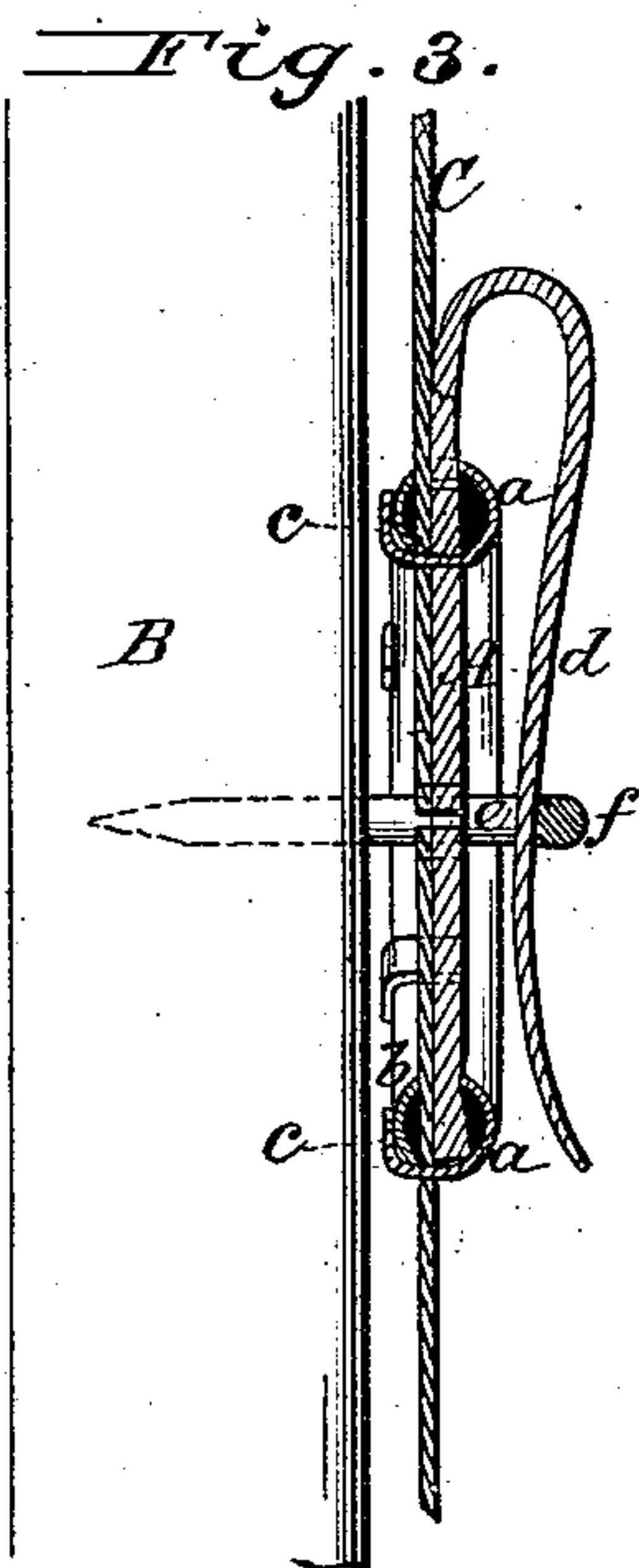
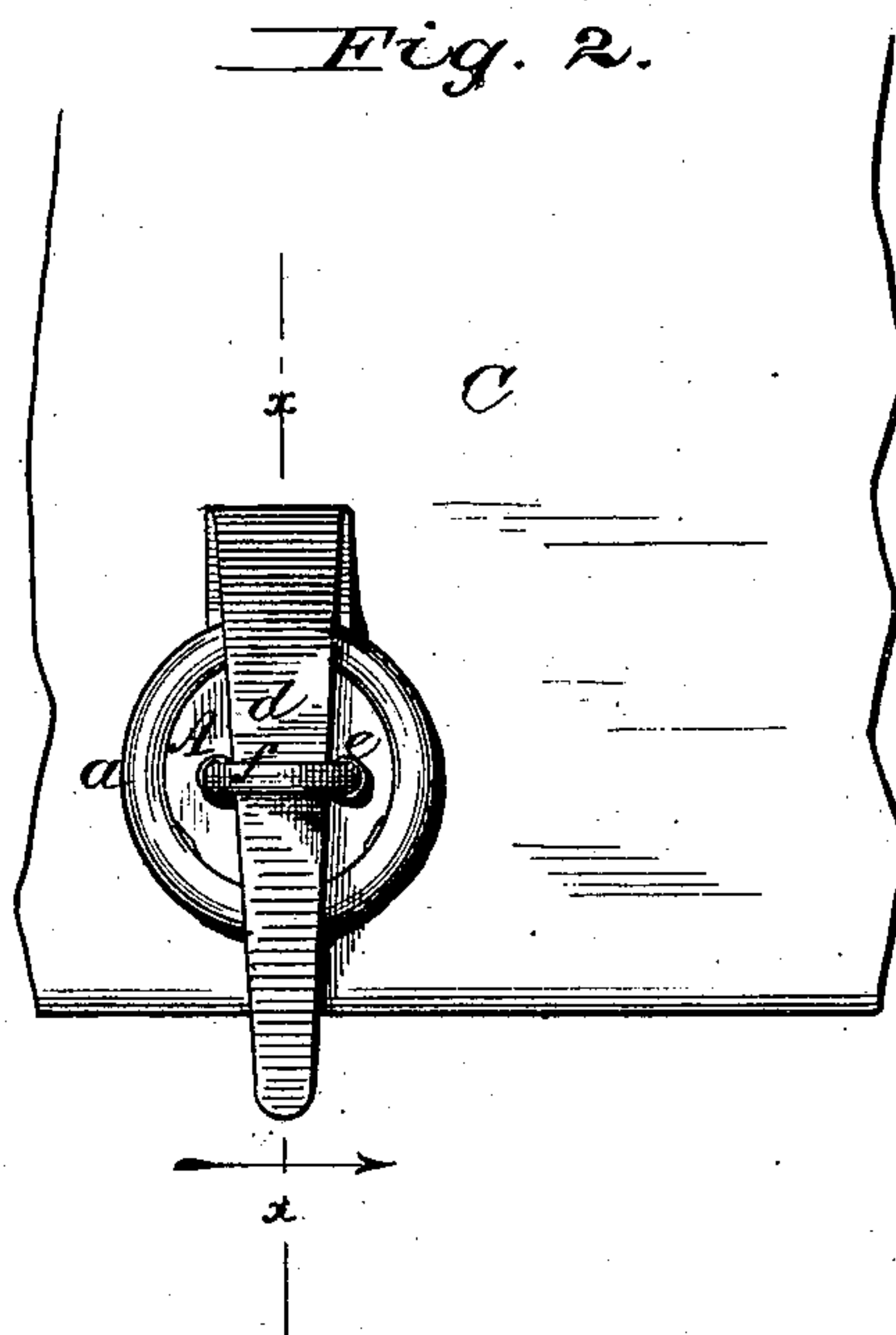
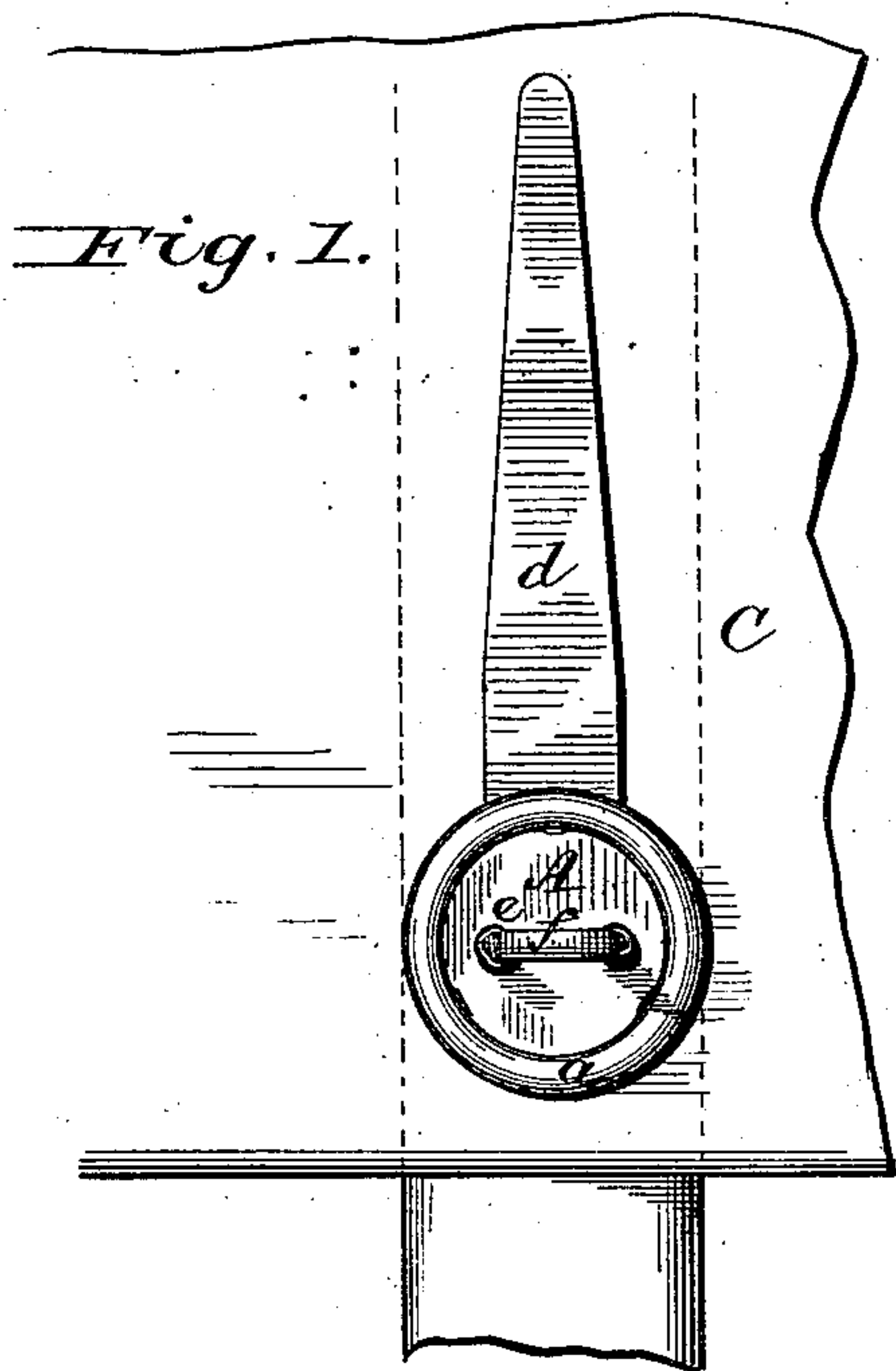


(No Model.)

G. L. CRANDAL.
Carriage-Curtain Fastener.

No. 227,219.

Patented May 4, 1880.



Attest:
H. L. Perrine
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Inventor:
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By *Johnson & Johnson*
Atty's

UNITED STATES PATENT OFFICE.

GEORGE L. CRANDAL, OF BINGHAMTON, NEW YORK.

CARRIAGE-CURTAIN FASTENER.

SPECIFICATION forming part of Letters Patent No. 227,219, dated May 4, 1880.

Application filed March 16, 1880. (No model.)

To all whom it may concern :

Be it known that I, GEORGE L. CRANDAL, of Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Carriage-Curtain Fasteners, of which the following is a specification.

My invention relates to carriage-curtain fasteners in which the button-hole is surrounded by binding-rings on opposite sides of the curtain, as in the Acker patent knob-eyelet, which I own by mesne assignment; and the object of my improvement is to adapt such eyelet-fastener with a securing-strap and eyebolt or staple, to obtain a simpler and cheaper construction of such fastener in its use more especially for the curtains of wagon-bodies.

In the accompanying drawings, Figure 1 represents a front elevation of a carriage-curtain fastener embracing my invention with the securing-strap opened; Fig. 2, a similar view with the securing-strap in position as fastening the curtain to the eyelet-staple; Fig. 3, a section of the same; Fig. 4, the parts of the eyelet, curtain, and securing-strap as separated; Fig. 5, the toothed eyelet-ring.

The button-hole piece A is bounded by outer and inner rings, *a* *b*, secured by clinching-points *c* projecting from the inner and the outer edges of the outer ring and passing through the curtain C, and this button-hole piece has an integral strap continuation, *d*, the whole piece A *d* being bound and secured by the rings. A slit, *e*, in the button-hole piece and in the curtain passes over an eye or staple,

f, secured to the bow B of the carriage or body of the wagon, and the strap is raised and brought through said eyebolt or staple, and the curtain thus fastened.

The biting-edge of the outer ring, *a*, is cut away at the place *g*, Fig. 5, where it passes over the securing-strap, to permit of the flush lying of said ring upon the curtain.

The button-hole piece or patch A not only is secured to the curtain by the ring-clinching points *c*, but the same manipulation also secures the fastening-strap *d* as a formed part of said patch, so that the latter requires no separate adjustment and fastening in applying the eyelet. The ring-clinching points in this way serve also as the strap-fastening points.

I claim—

In a carriage-curtain fastener, the button-hole piece or patch A and the fastening-strap *d*, of a single piece, in combination with the ring *a*, formed with circumferential biting-edge and inner and outer edge clinching-points, *c*, and the inner ring, *b*, the said inner-edge clinching-points passing through the said button-hole piece, and serving thereby to secure its integral fastening-strap for the carriage-bow eye, substantially as herein set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEORGE L. CRANDAL.

Witnesses:

SILAS W. CRANDALL,
ALBERT HOTCHKISS.