

No. 713,892.

H. LESTER.
CARRIAGE CURTAIN FASTENER.
(Application filed Apr. 4, 1902.)

Patented Nov. 18, 1902.

(No Model.)

Fig. 1.

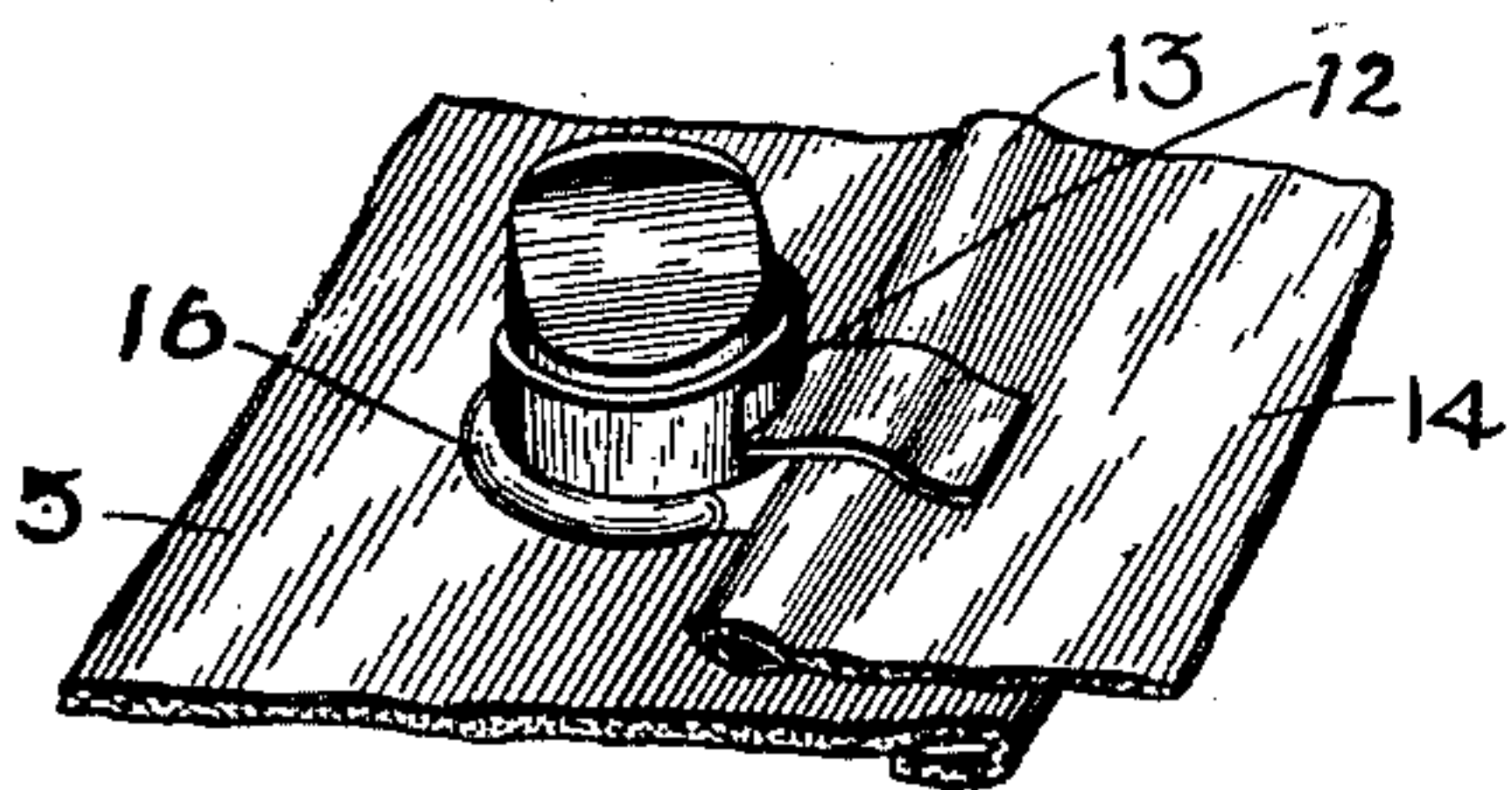


Fig. 2.

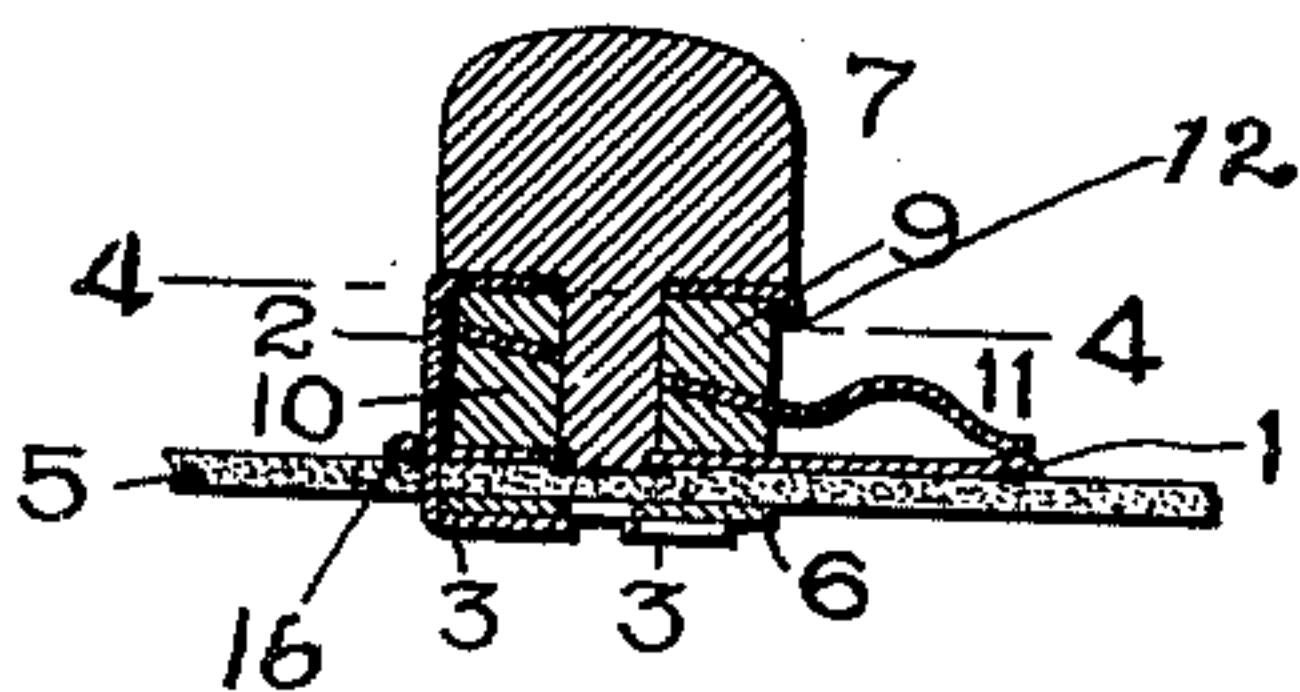


Fig. 3.

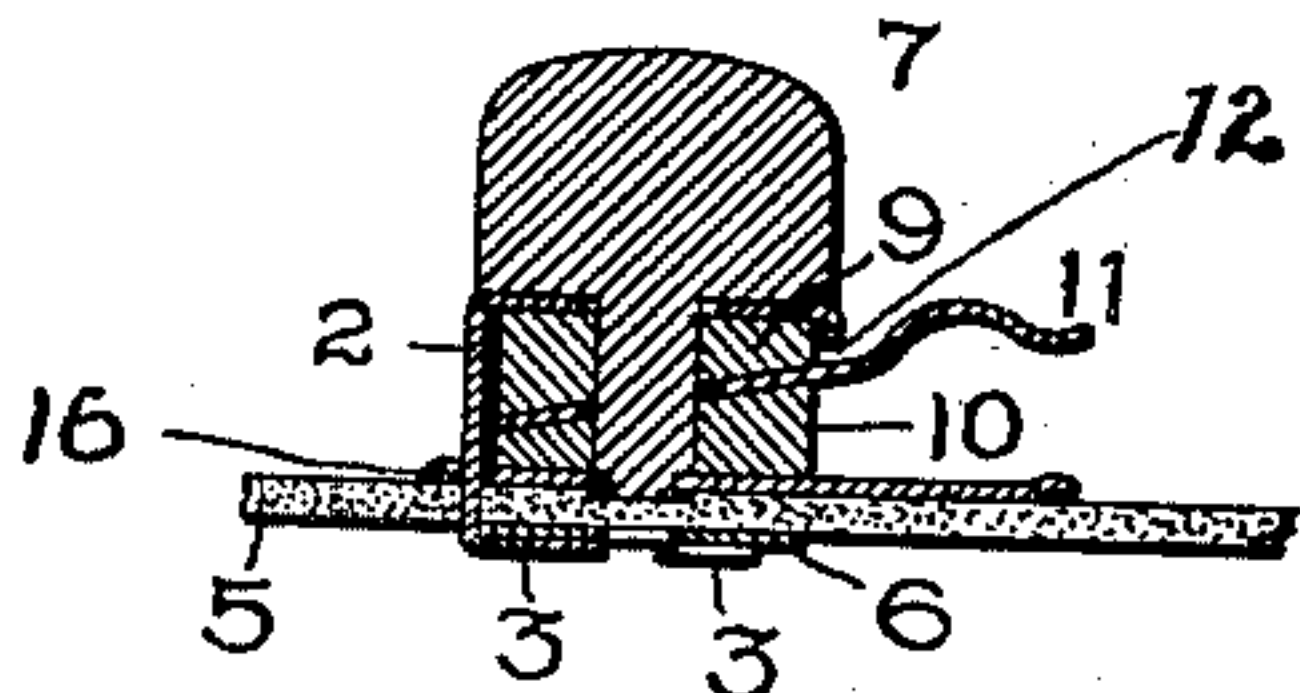


Fig. 4.

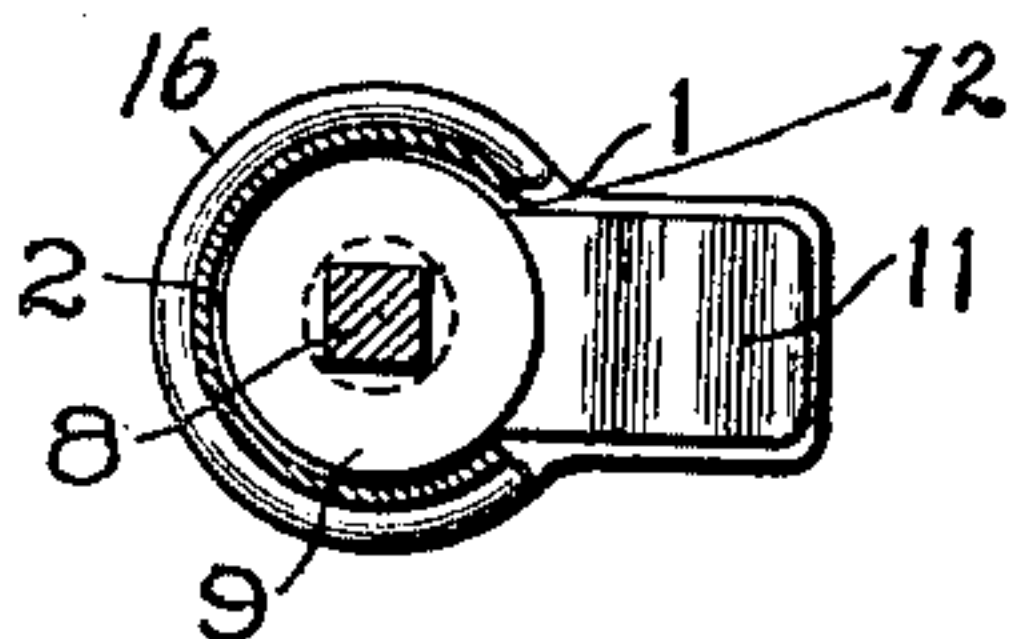


Fig. 5.



Fig. 6.

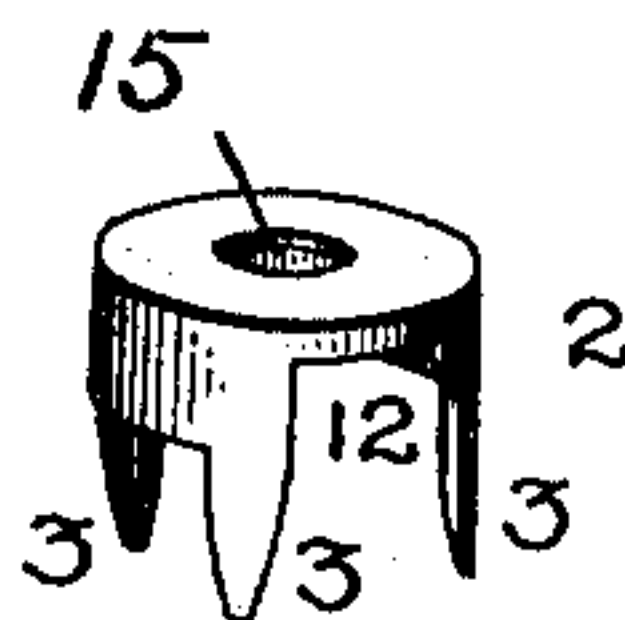


Fig. 7.



Fig. 8.

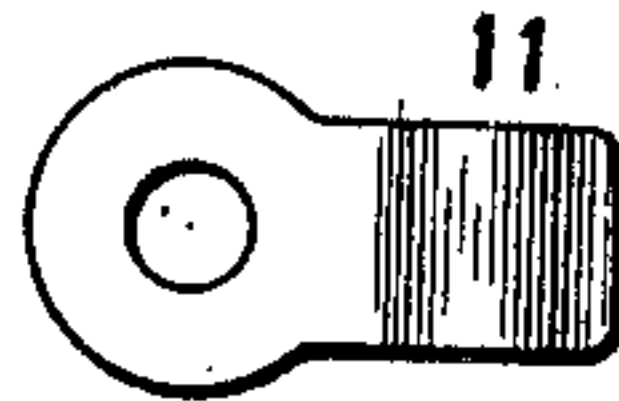
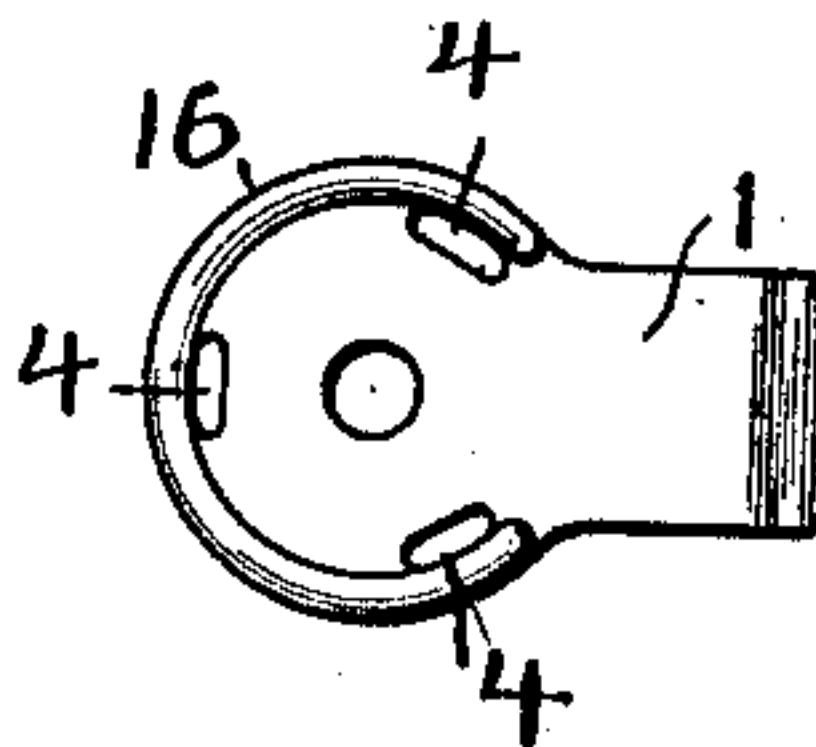


Fig. 9.



Fig. 10.



Witnesses.

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UNITED STATES PATENT OFFICE.

HAVILAND LESTER, OF BINGHAMTON, NEW YORK, ASSIGNOR TO CRANDAL, STONE & COMPANY, A CORPORATION OF NEW YORK.

CARRIAGE-CURTAIN FASTENER.

SPECIFICATION forming part of Letters Patent No. 713,892, dated November 18, 1902.

Application filed April 4, 1902. Serial No. 101,433. (No model.)

To all whom it may concern:

Be it known that I, HAVILAND LESTER, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Carriage-Curtain Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to devices for attaching side and back curtains to the backstays of carriages. Its object is to avoid the necessity of attaching any part of the fastener to the curtain, so that the curtain will adjust itself to the fastener, and therefore lie flat and not warp or wrinkle.

A further object is to provide a fastener that can be quickly and easily operated.

The invention consists in a fastener comprising a pair of jaws adapted to clamp a bead or thickened portion of the edge of the curtain and operated by two cams rotatable by a central stem, the cams being inclosed in a body which is firmly secured to the backstay.

In the accompanying drawings, Figure 1 is a perspective view showing my improved fastener applied to a backstay and holding a curtain. Fig. 2 is a vertical section of the same. Fig. 3 is a similar section with the jaws open. Fig. 4 is a sectional view on the line 4-4, Fig. 3. Figs. 5 to 10, inclusive, are views of the separate parts of the fastener.

The lower jaw 1 is a plate of sheet metal having a preferably circular enlargement at one end to serve as a support for the body 2, which is a cylindrical sheet-metal shell having a plurality of prongs 3, which pass through slots 4 in the enlargement of the lower jaw and are clenched on the under side of the backstay 5, preferably on a washer 6. The enlargement is preferably provided with a strengthening-bead 16. The handle or button 7 rests on top of the body 2 and has a stem 8 which passes down through a central hole in the top of the body and is rotatably

secured in a central hole in the lower jaw 1. The stem is polygonal in cross-section to engage with two cam members 9 and 10, each of which consists of a circular disk, one of whose faces is at right angles with the axis, while the other is oblique thereto. In the center of each disk is a polygonal hole to fit the stem. The upper jaw is a strip of sheet metal 11, having at one end a circular portion lying between the two cams and having a central hole 15, through which the stem passes rotatably. It projects through an opening 12 in the side of the body 2, the edges of which guide the jaw in its up and down movements. The upper jaw has an upward curve to fit over the bead or thickened portion 13 of the edge of a curtain 14.

The operation of my improved fastener is as follows: The stem is turned until the cams stand as shown in Fig. 3, which tilts the upper jaw upward. The thickened edge of the curtain is laid between the jaws, and the stem is then given a half-revolution, which carries the cams around to the position shown in Fig. 2 and forces the upper jaw down upon the curtain, the curve in the jaw fitting over the edge of the curtain, as shown. This operation can be very quickly performed, and the curtain is securely held, adjusting itself to the fastener and lying smooth and flat.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A fastener for curtains and the like, consisting of a stationary jaw, a movable jaw, and two rotatable disks having parallel inclined faces between which the movable jaw is held.

2. A fastener for curtains and the like, consisting of a stationary jaw, a movable jaw, a stem rotatable in said jaws, and two disks each having a surface oblique to the axis of the stem and rotatable with said stem, said movable jaw being held between said oblique surfaces.

3. A fastener for curtains and the like, consisting of a stationary lower jaw, a cylindrical body mounted on said jaw and having an opening in one side, a stem rotatable in said body, two disks received in said body and rotatable with said stem, said disks having in-

clined surfaces, and a movable jaw held between said disks and guided in its movement by the opening in said body.

4. The combination with the sheet-metal jaw 1 having an enlargement, of a cylindrical sheet-metal body 2 having prongs 3 to pass through said enlargement and provided with an opening 12 in one side, a stem 8 rotatably mounted in said body and lower jaw, two circular disks 9, 10, each having one face oblique to its axis and engaged by said stem,

and a movable jaw having a circular end portion received in said body and lying between the disks, said movable jaw projecting out through the opening in the side of the body. 15

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

HAVILAND LESTER.

Witnesses:

F. J. BLOODGOOD,
FRANK S. TITCHENER.