

(No Model.)

E. DE COLTON.
FOLDING LOCK.

No. 598,656.

Patented Feb. 8, 1898.

Fig. 1.

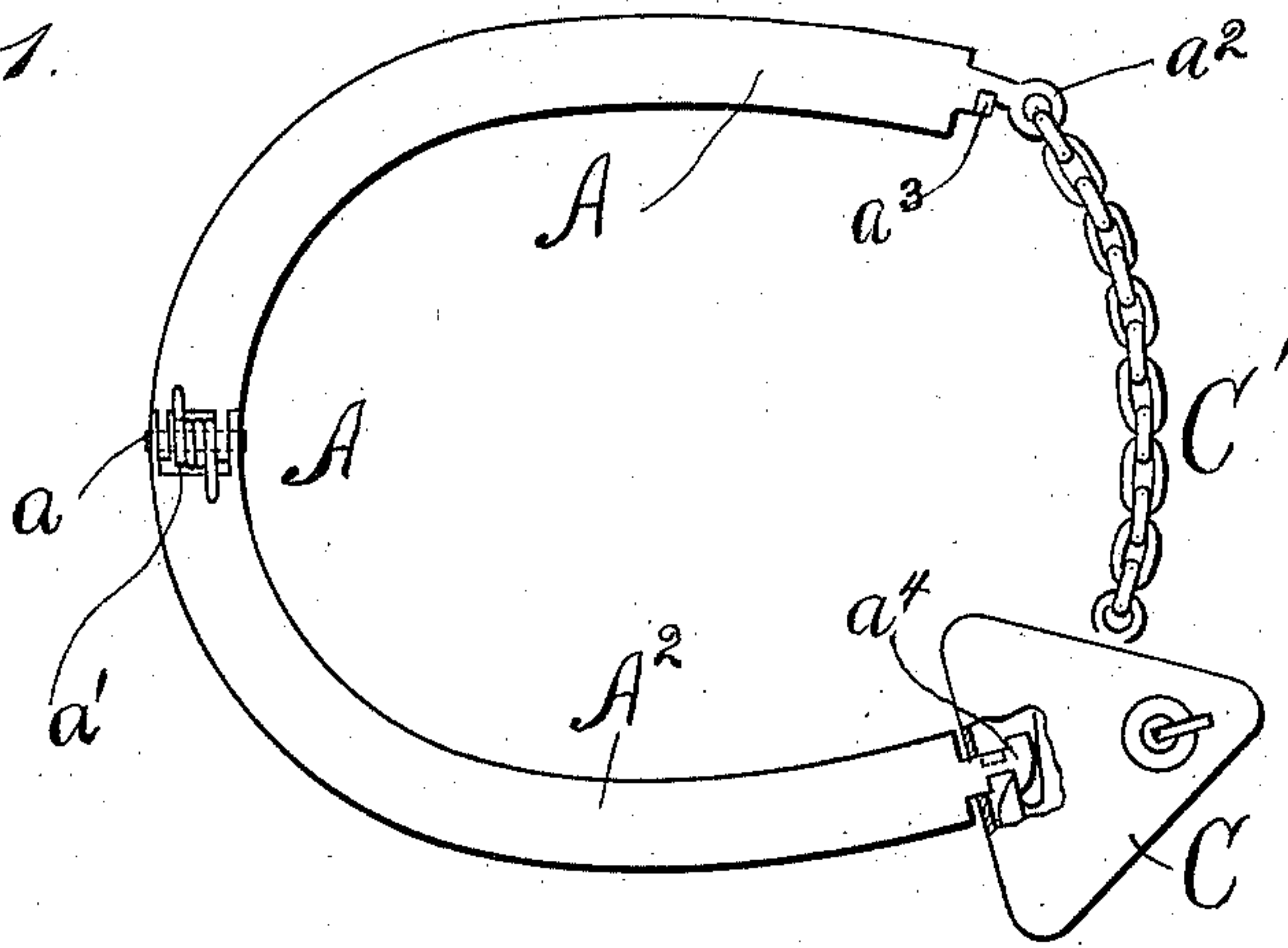


Fig. 2.

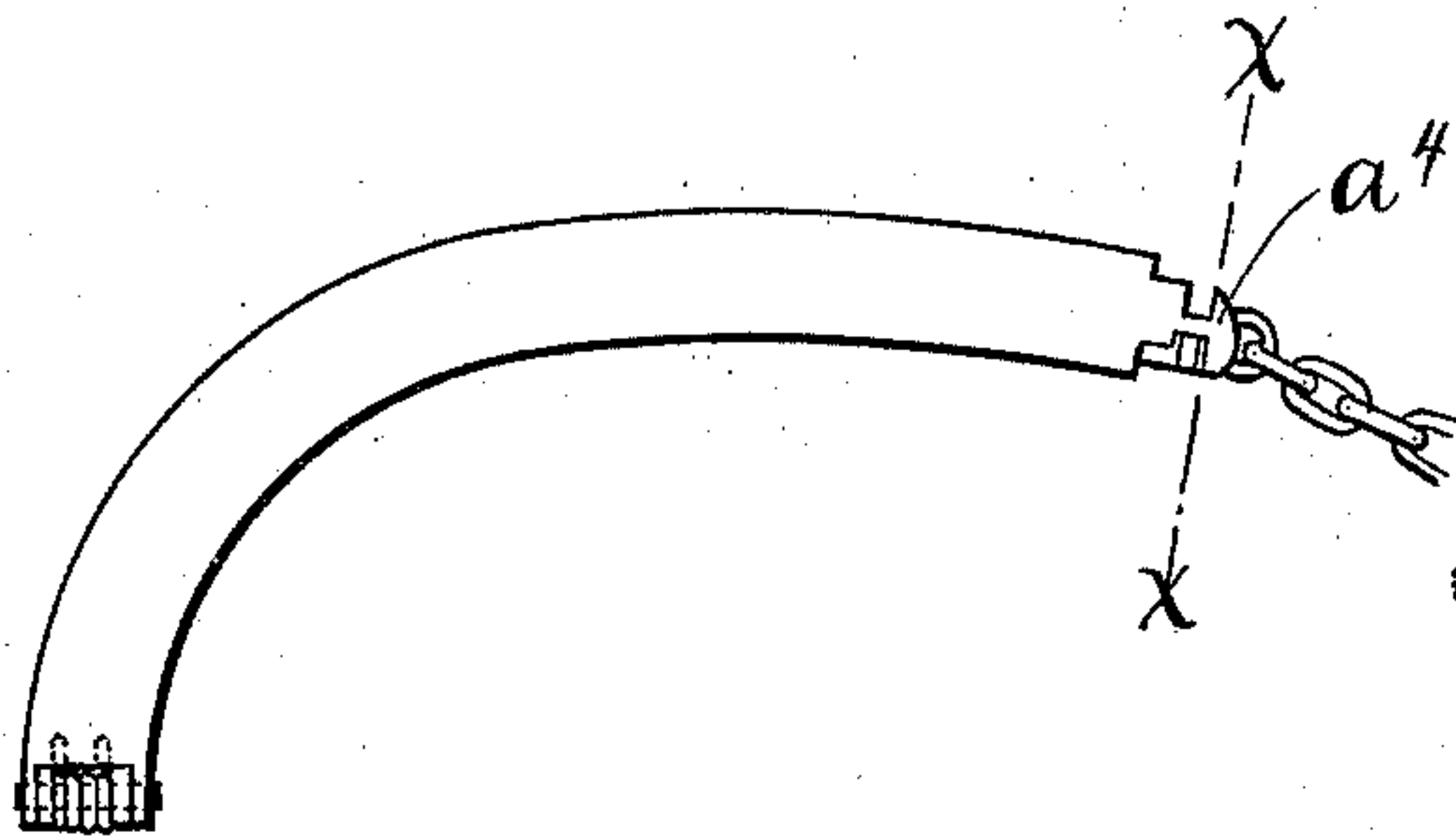


Fig. 3.

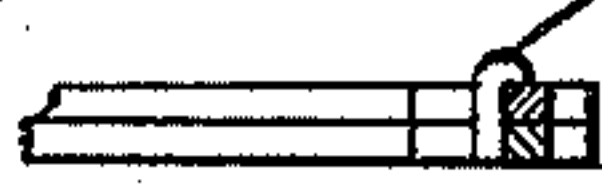


Fig. 4.

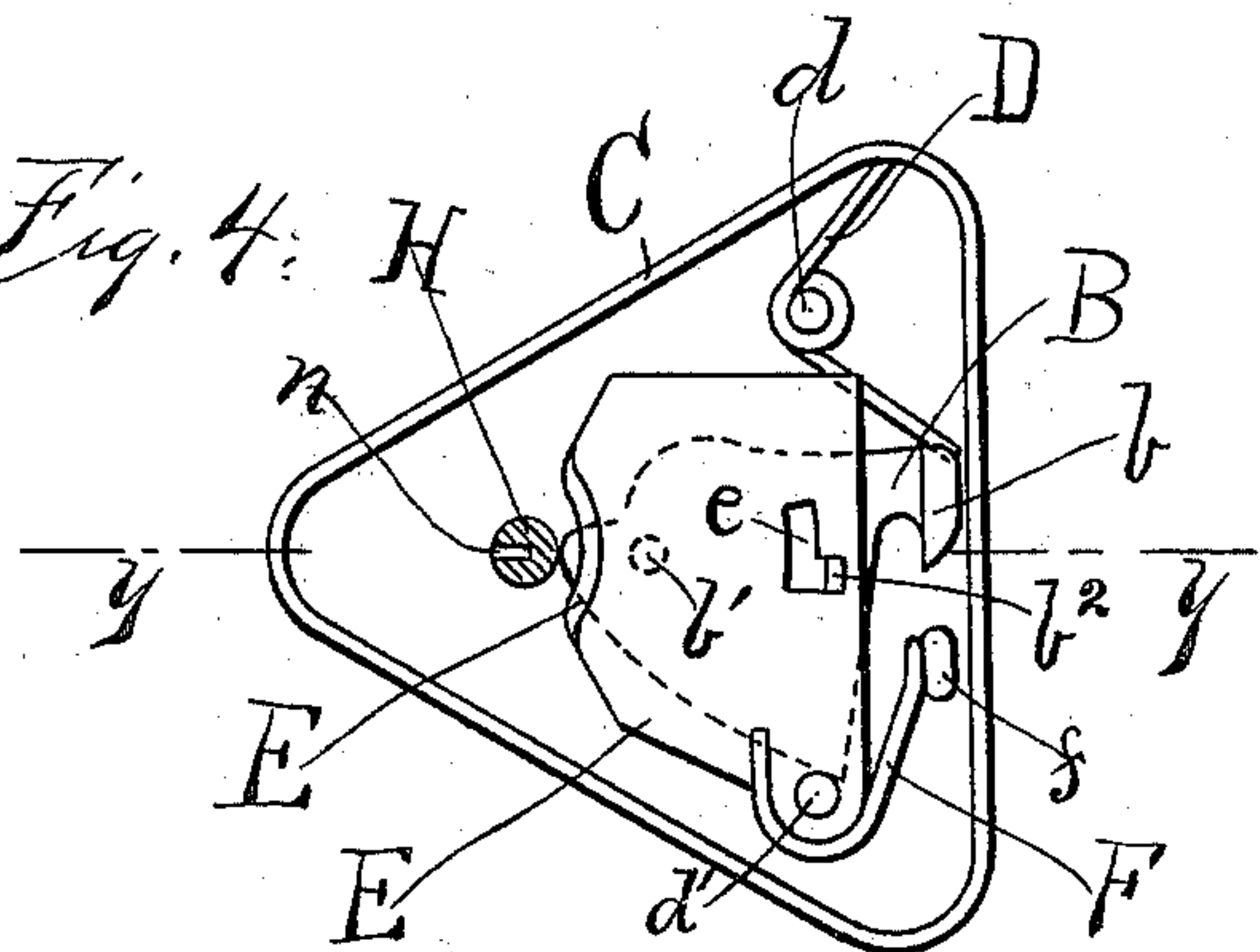


Fig. 5.



Fig. 6.

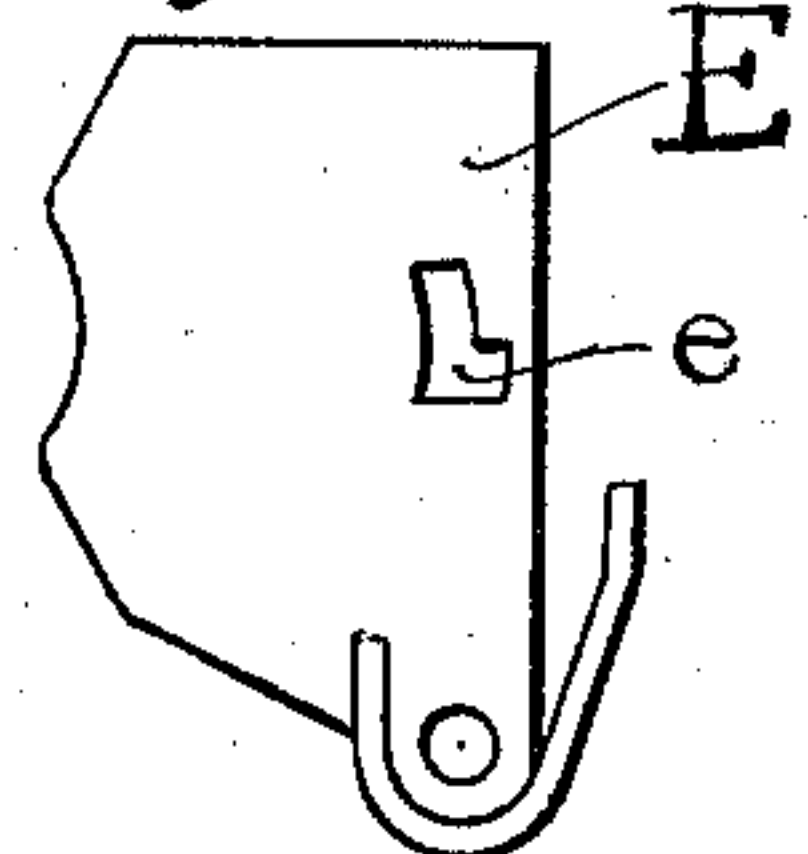


Fig. 7.

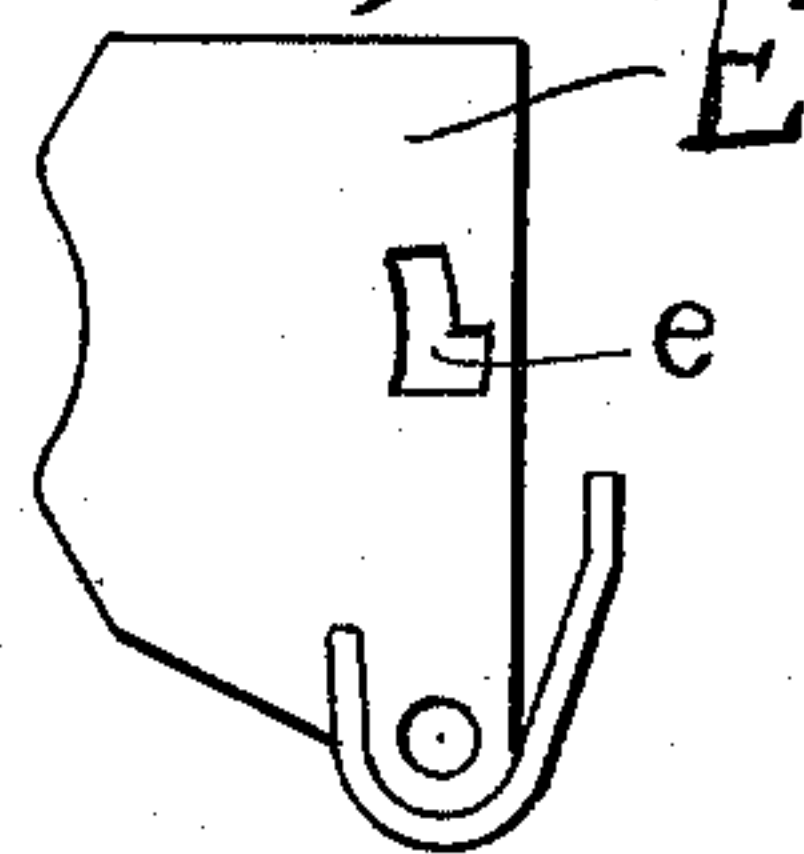
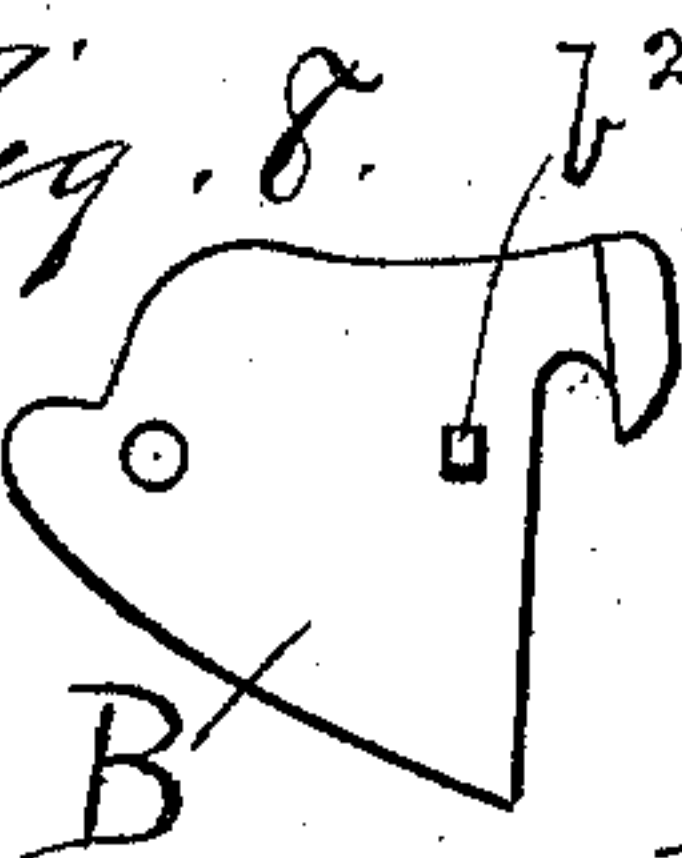


Fig. 9.



Fig. 8.



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UNITED STATES PATENT OFFICE.

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FOLDING LOCK.

SPECIFICATION forming part of Letters Patent No. 598,656, dated February 8, 1898.

Application filed July 17, 1897. Serial No. 644,871. (No model.)

To all whom it may concern:

Be it known that I, ELLA DE COLTON, a citizen of the United States, and a resident of Buffalo, county of Erie, and State of New York, have invented certain new and useful Improvements in Folding Locks, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to improvements in folding locks for bicycle-wheels; and the object thereof is to supply a compact and handy device of this character which can be folded and conveniently carried in the pocket when not in use, while at the same time it will effectually lock the wheel to prevent revolution thereof when it is attached for the purpose of locking the wheel.

The invention will be hereinafter fully described, and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of my improved device, showing the same in the position that it will assume when locked to a wheel. Fig. 2 is a similar view showing the device folded. Fig. 3 is a cross-sectional detail elevation taken on the line *c c* of Fig. 2. Fig. 4 is a plan view of my locking device, illustrating the same on an enlarged or exaggerated scale. Fig. 5 is a cross-sectional elevation taken on the line *y y* of Fig. 4. Figs. 6, 7, and 8 are details of the locking mechanism shown in plan, and Fig. 9 is a vertical elevation of a key adapted for use in operating the lock.

In the practice of my invention I provide, primarily, a bow A, which is approximately in the shape of a horseshoe and comprises arms A' and A², these said arms being hinged to each other by means of a spindle *a* and maintained in a normally-opened position, as illustrated in Fig. 1 of the drawings, by means of a spiral spring *a'*.

The free or outer end of the arm A' has an eye *a*² formed thereon, and projected outwardly from this said free end is a hook *a*³, adapted for engagement with the latch *a*⁴, which is extended from the free end of the arm A². This said latch engages with a hooked projection *b* of a dog B, which is piv-

oted within a casing C by means of a spindle *b'*, and the said casing is connected to the eye *a*² by means of a chain C', whereby the wheel of the bicycle is effectually locked to the frame thereof.

The dog B is normally maintained in the position illustrated in Fig. 4 of the drawings by means of a spring D, which is coiled around a post *d*, whereby the hook *b* is in normal position for automatic attachment with the latch *a*⁴ of the arm A² for the purpose of locking the device; and to prevent tampering with the lock the dog is normally secured to two or more tumblers E by means of a projected lug *b*², which engages with L-shaped slots *e* of the tumblers E, the longitudinal portion of these said slots being maintained in normal engagement with the said lug by means of springs F, which bear against a post *f*, and the tumblers are pivoted to a spindle *d'*.

The device is unlocked by means of a key G, which has a series of projections *g* extended therefrom for engagement, respectively, with the tumblers E and the dog B, whereby the lug *b*² is permitted to swing within the elongated portion of the L-shaped slots *e* for the purpose of releasing the latch *a*⁴. This said key engages with a slot H, formed in the ordinary post H.

In the use of the device the bow A is placed around the tire of the wheel and the chain C around a portion of the framework of the bicycle. The latch *a*⁴ is then snapped within the lock and the wheel cannot revolve until the device is unlocked by means of a proper key.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A bicycle-wheel lock, comprising a jointed bow, the axis of the pintle of the hinge connecting the two sections thereof being parallel with their length and the bow having a latch upon one end thereof for engagement with a spring-lock, the other end of the said bow having a chain thereon for attachment to a spring-lock, substantially as shown and described.

2. A locking mechanism for bicycles, comprising the bow composed of two arms hinged to each other and maintained in a normally-opened position by means of a coiled spring,

the axis of the hinge connecting the arms being parallel with the length of the said arms, whereby they may be folded, one arm having a latch thereon for engagement with a spring-
5 lock and the other having an eye thereon for engagement with a chain attached to the spring-lock, the arm with the eye having a hook projected therefrom which engages with the said latch when the bow is folded for the
10 purpose of carrying the same in the pocket, substantially as shown and described.

3. As a wheel-locking mechanism, the combination of a lock comprising a swinging spring-actuated dog having a hook thereon
15 and a series of tumblers for maintaining the said dog in a locked position, and a casing inclosing the said dog; with a bow comprising two arms hinged to each other and main-

tained in a normally-opened position by means of a coiled spring, the longitudinal axis 20 of the hinge being on a line parallel with the arms, whereby they may be folded, one of these arms having a latch projected from the free end thereof for engagement with the locking mechanism and the other having an 25 eye for engagement with a chain to secure the locking mechanism, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two witnesses. 30

ELLA DE COLTON.

Witnesses:

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WM. A. ROBINSON.