

(Model.)

C. E. ROBINSON.

LOCK HINGE.

No. 307,593.

Patented Nov. 4, 1884.

Fig. 1.

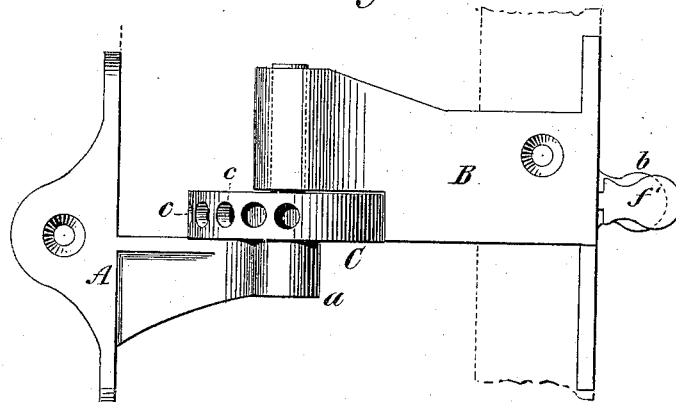


Fig. 2.

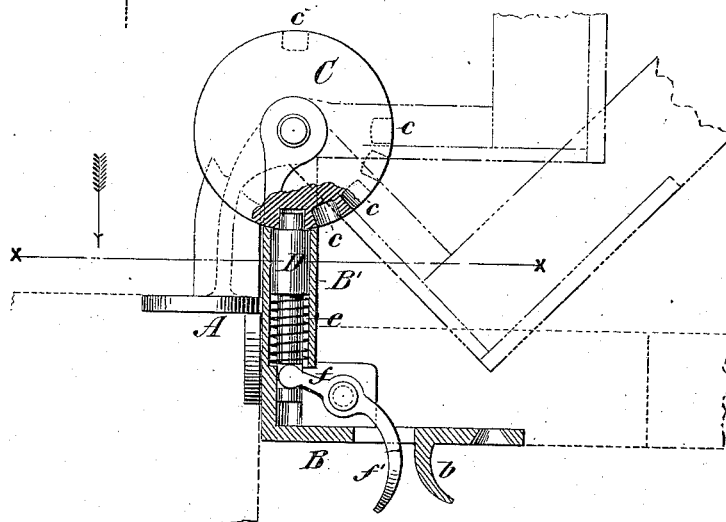
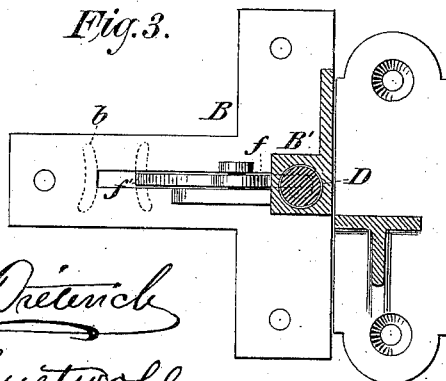


Fig. 3.



WITNESSES:
Gustave Dietrich
Fred Huetwohl

INVENTOR

Charles E. Robinson

UNITED STATES PATENT OFFICE.

CHARLES E. ROBINSON, OF BROOKLYN, NEW YORK.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 307,593, dated November 4, 1884.

Application filed October 22, 1883. (Model.)

To all whom it may concern:

Be it known that I, CHARLES E. ROBINSON, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Locking-Hinge, of which the following is a specification.

My invention relates to a style of locking-hinge more especially adapted for blinds and shutters; and it consists in providing the leaves of a hinge with a curved arm projection, a circular plate, a finger projection, lever-seat projection with lever and spring-bolt. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the entire hinge as open. Fig. 2 is a horizontal view of the hinge, showing the locking-bolt and attendant connections. Fig. 3 is a vertical section of the hinge as closed.

Let A represent that part or leaf of the hinge attached to the window-frame; B, the other half or leaf of the hinge attached to the blind or shutter. On the leaf of the hinge A is a circular plate seated upon a curved arm. From the center of the circular plate rises the pintle *a*, on which the leaf B swings.

C is a circular plate with radial apertures *c*. The arm of the leaf A, supporting the circular plate C, is made curved, as shown by the dotted lines in Fig. 2. This is for the purpose of allowing the blind or shutter to project a half of an inch over the side of the window-frame to exclude the rays of the sun when closed. Attached to the leaf B is a finger projection, *b*, either cast thereon or made of a separate piece of metal, for the purpose of retaining the forefinger of the hand in operating the locking-bolt D.

B' is an elongated tubular projection on the leaf B, containing the locking-bolt D and spring *e*. A projection, *f*, on the leaf B is for a seat for the lever *f'*. One end of this lever is inserted in an aperture in the end of the locking-bolt D. The locking-bolt D is forced into the radial apertures *c* in the circular plate C by means of the spiral spring *e*. The top of the tubular projection B' is extended over the circular plate C, in order to form an absolute protection for the locking-bolt D at its point of entrance into the apertures *c*, in order that the bolt D cannot be tampered with and the hinge unlocked except by a movement of the lever *f'*. The lever *f'* is securely protected by the stile of the blind or shutter, as shown by the dotted lines in Fig. 2. The hinge is operated by placing the forefinger of the hand against the finger projection *b* and the thumb on the lever *f'*. A movement of the lever *f'* toward the finger-piece *b* withdraws the bolt from the apertures *c*, and the hinge can then be opened or shut, as desired.

I have described my invention as being applied to a blind or shutter hinge; but it is not of necessity confined to this form of hinge.

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

The combination of the stationary leaf of a hinge, made with a curved arm supporting a circular plate, with the movable or swinging leaf of a hinge, made with a finger and lever-seat projection provided with a locking-bolt and thumb-lever, substantially as and for the purpose set forth.

CHARLES E. ROBINSON. [L. s.]

Witnesses:

GEO. H. PENDLETON,
D. R. McREA.