

J. B. STONE.
Lock-Hinge.

No. 198,822.

Patented Jan. 1, 1878.

Fig: 1.

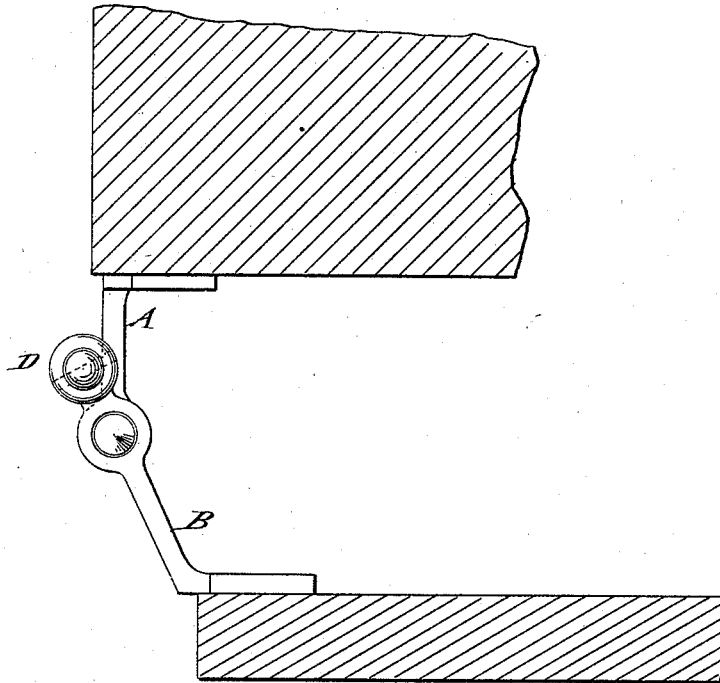


Fig: 2.

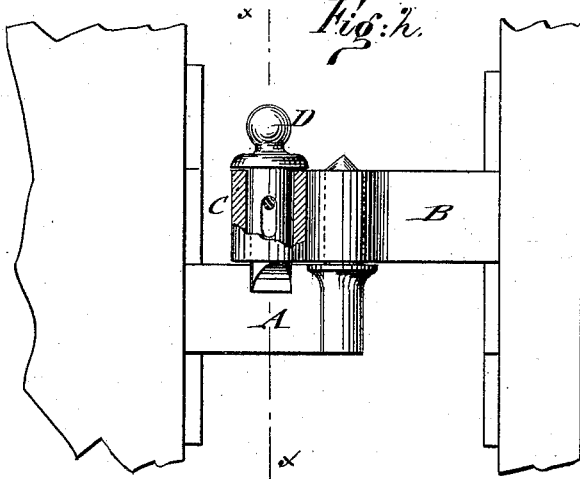
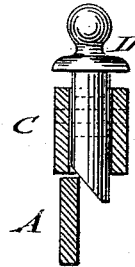


Fig: 3.



WITNESSES:

Chas. Nida.
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INVENTOR

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UNITED STATES PATENT OFFICE.

JOSEPH B. STONE, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN LOCK-HINGES.

Specification forming part of Letters Patent No. **198,822**, dated January 1, 1878; application filed November 8, 1877.

To all whom it may concern:

Be it known that I, JOSEPH B. STONE, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Lock-Hinge, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my improved lock-hinge; Fig. 2, a sectional side view of the same, shown in locked position; and Fig. 3 is a detail vertical central section of the hinge, with the gravity-catch shown in the act of locking.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved lock-hinge for shutters, gates, doors, &c., by which they may be securely and firmly locked into open position by a simple and durable attachment to the hinge; and the invention consists of the novel combination, with a second guide-sleeve of the swinging hinge-section, of a vertically-sliding gravity-catch, with wedge-shaped end, that passes over and locks to the fixed pintle-bracket of the hinge, all as hereinafter more fully described and claimed.

Referring to the drawing, A represents the pintle-section, and B the sleeve-section, of a common hinge, as used for shutters, gates, doors, and other purposes. The pintle-section is applied permanently to the window or other frame, and the sleeve-section strapped or fastened to the shutter or gate. To the sleeve-section B is cast, welded, or otherwise applied, a second sleeve, C, back of the main sleeve, and in line with the supporting-arm of

the latter. The second sleeve C guides a vertical gravity-catch, D, that may be raised or dropped to a certain extent by means of a center slot of the catch, and a fixed diametrical pin of the sleeve. The lower part of the gravity-catch is beveled off or made wedge-shaped, the beveled-off side passing along the bracket-arm of the pintle, when the shutter is opened, so as to be raised thereby until the gravity-catch has passed entirely over the arm and drops at the other side, locking thereby, by the straight rear part, the shutter rigidly in position against the fixed pintle-arm.

The upper part of the gravity-catch is made in the shape of a button, so as to be readily taken hold of for raising the catch and admitting its clearing the pintle-arm when it is desired to close the shutter or gate. In this manner a simple gravity-catch, worked in connection with the lower hinge, secures the locking of a shutter or gate in reliable manner without any spring, drop, or other catches that require a separate attachment to the wall or other place.

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

In a lock-hinge, the combination, with pintle and sleeve, of an auxiliary sleeve, C, having cross-pin, and a vertically-sliding slotted gravity-catch, D, beveled at the lower part, as shown and described.

JOSEPH B. STONE.

Witnesses:

PAUL GOEPEL,
ALEX. F. ROBERTS.