(No Model.)

A. HORN & M. J. LEICK.

COMBINED SHUTTER FASTENER AND SHUTTER OPENER.

No. 332,343. Patented Dec. 15, 1885.

Fig. 1.

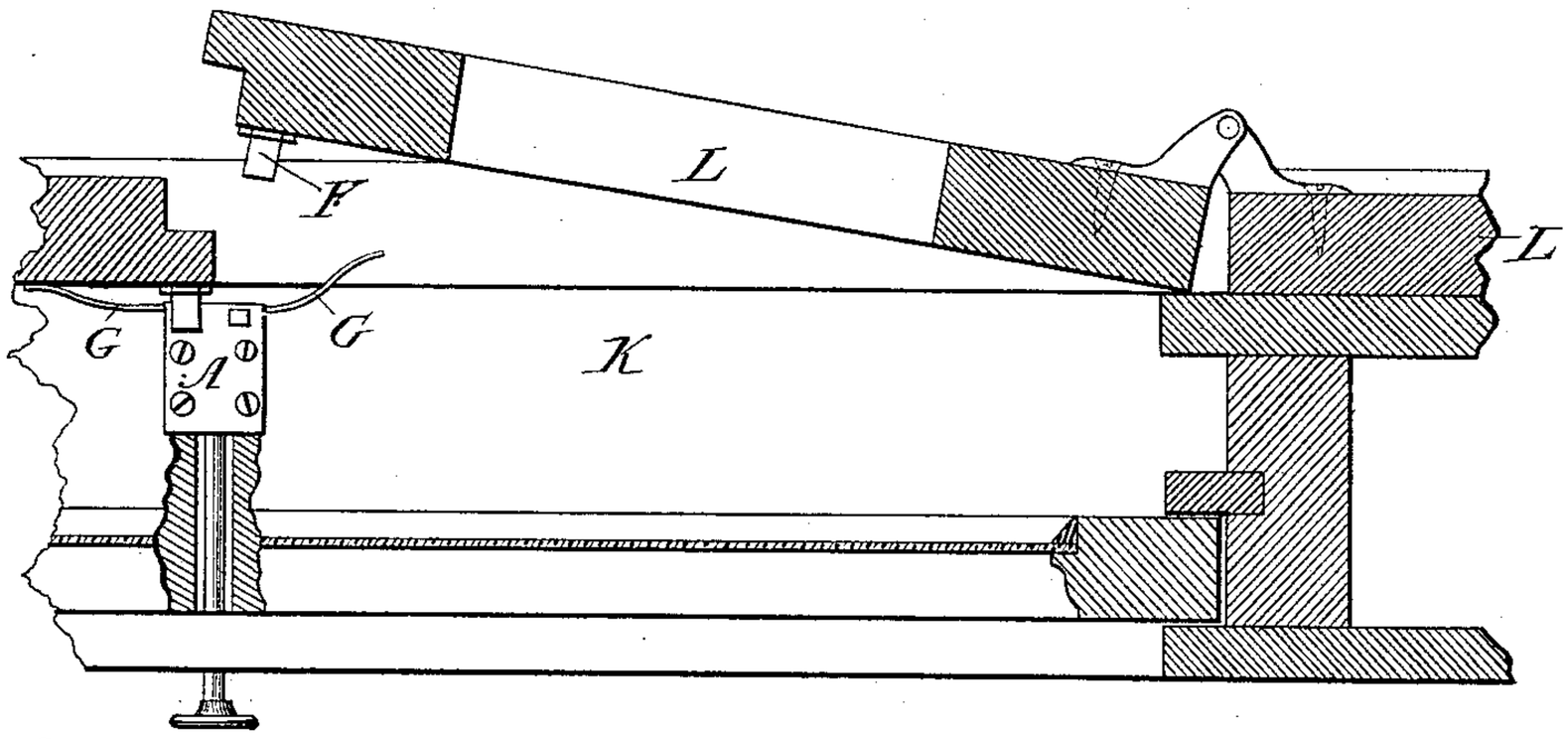


Fig. 2.

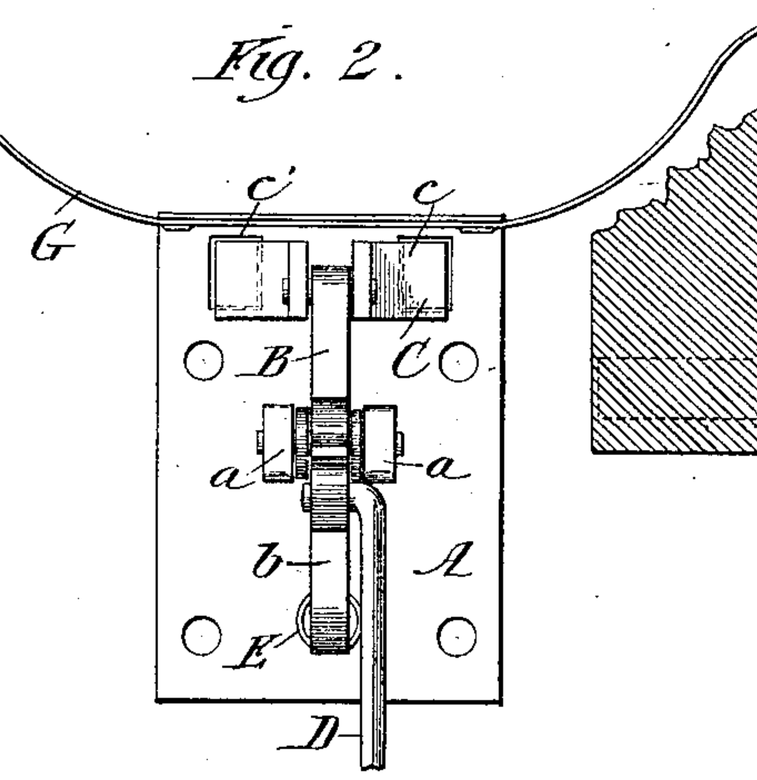


Fig. 3.

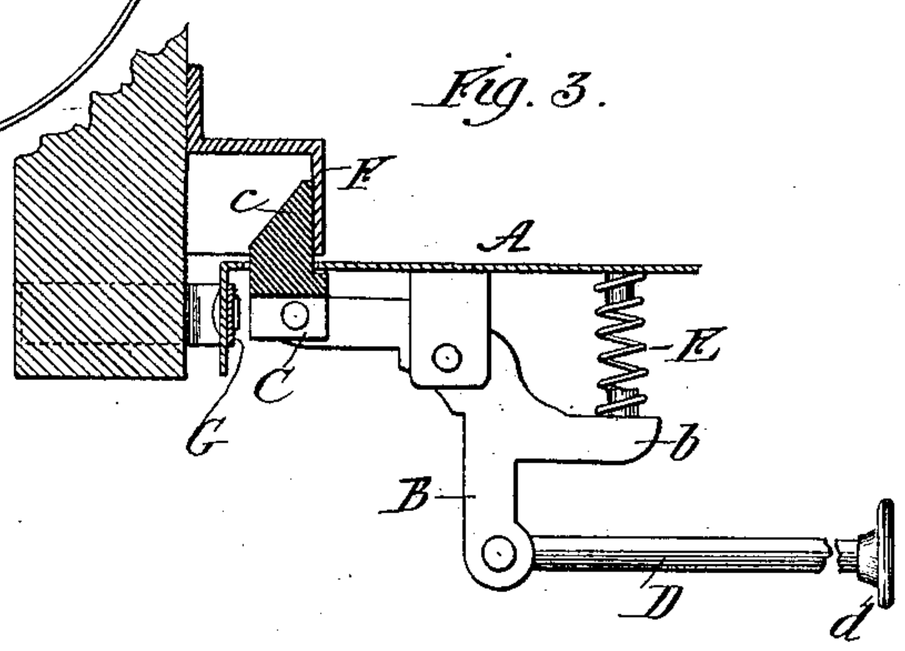
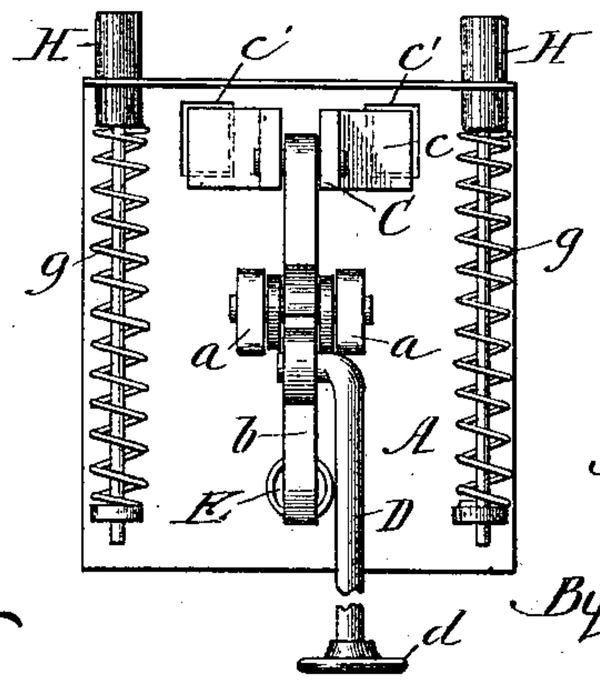


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

ADOLPH HORN AND MATHIAS J. LEICK, OF CHICAGO, ILLINOIS.

COMBINED SHUTTER-FASTENER AND SHUTTER-OPENER.

SPECIFICATION forming part of Letters Patent No. 332,343, dated December 15, 1885.

Application filed August 17, 1885. Serial No. 174,664. (No model.)

To all whom it may concern:

Be it known that we, ADOLPH HORN and MATHIAS J. LEICK, the former a subject of the Emperor of Germany and the latter a citizen of the United States of America, both residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shutter Locks and Openers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to devices for locking blinds or shutters; and it has for its object to produce a simple shutter-lock that can be operated from the inside without opening the window-sash, and is provided with means for automatically throwing the shutters open after releasing the same.

Our invention therefore consists of the devices and combinations of devices hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1 represents a horizontal section of a window having our improvements, with one shutter locked and the other one partly opened. Fig. 2 is a bottom view of our shutter-lock and opener; Fig. 3, a sectional side elevation of the same, and Fig. 4 a bottom view of a modified device.

Corresponding letters in the several figures of the drawing designate like parts.

A denotes the L-bent lock-plate, having two rigid eye-lugs, *a*, between which is pivoted a bell-crank, B. To the forward arm of this bell-crank B is pivoted the latch C, having two bevel-heads, *c* and *c'*, one for each wing of the shutter or blind. To the end of the pending arm of bell-crank B is pivoted the operating-rod D, having at its other extremity a knob, *d*. The pending arm of bell-crank B has a rearward projection, *b*, provided with a nipple for holding one end of a spiral spring, E, the other end of which is held in position under the lock-plate A by a nipple secured thereto. The bevel-heads of latch C are projected through and guided in square openings of lock-plate A, and are forced upward by spring E.

This lock is mortised into the window-sill K, so that the lock-plate A will be flush therewith, and the rod D is passed through a hole underneath the window-sill to be operated from the inside of the room.

F is the catch secured to the blinds L, and is made cap-like, with flanges for securing it with wood-screws. This catch will cover and protect the latch-head in a manner that it cannot be tampered with from the outside. Against the inner face of the vertical front portion of lock-plate A is secured, by rivets or otherwise, a semi-elliptic spring, G, the projecting ends of which point forward and are depressed by closing the blinds or shutters, and when the bolts are retracted so as to release the shutters or blinds they will be thrown wide open by the recoil of such spring.

In place of a semi-elliptic spring, G, bolts H, pushed forward by spiral springs *g*, may be applied to each side of the lock-plate for opening the blinds, as shown in Fig. 4.

This device makes a strong and durable fixture that cannot easily get out of order.

What I claim is—

1. The shutter-lock herein described, consisting of plate A, bell-crank B, double-headed bolt C, rod D, and spring E, all constructed and arranged to operate as specified.

2. The combination, with shutters and suitable locking devices therefor, of lock-plate A and spring-actuated bolts H, the parts arranged as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ADOLPH HORN.
MATHIAS J. LEICK.

Witnesses:
FRANK S. BLANCHARD,
HOWARD HALLOCK.