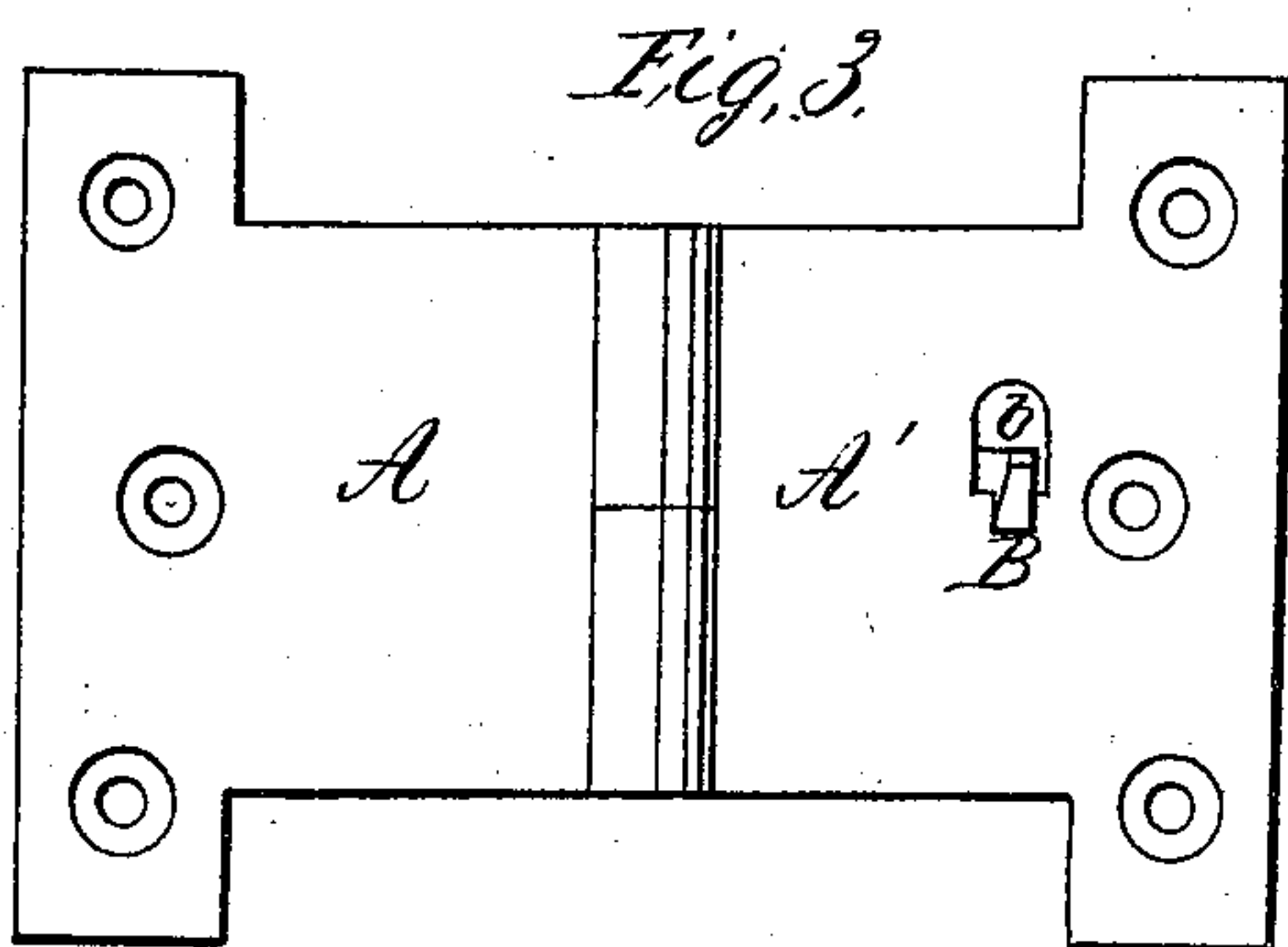
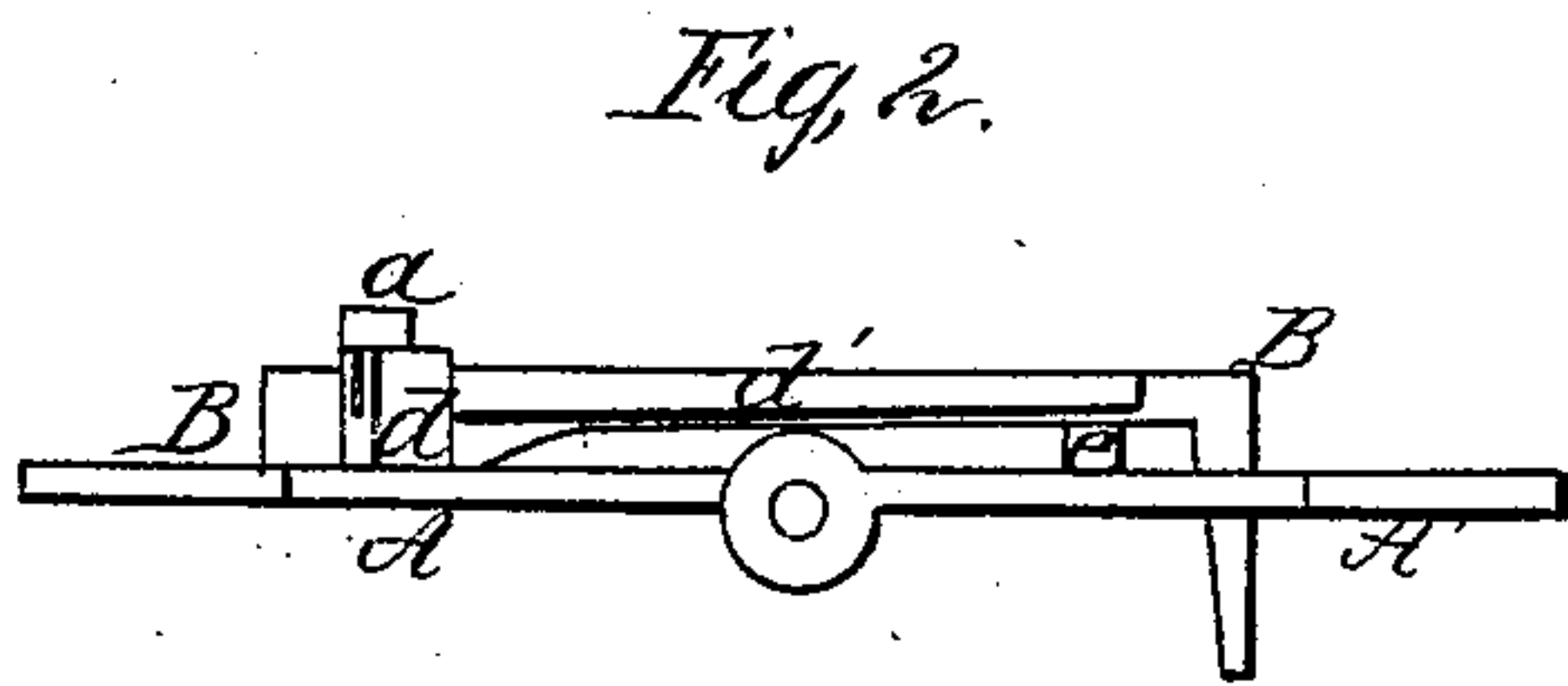
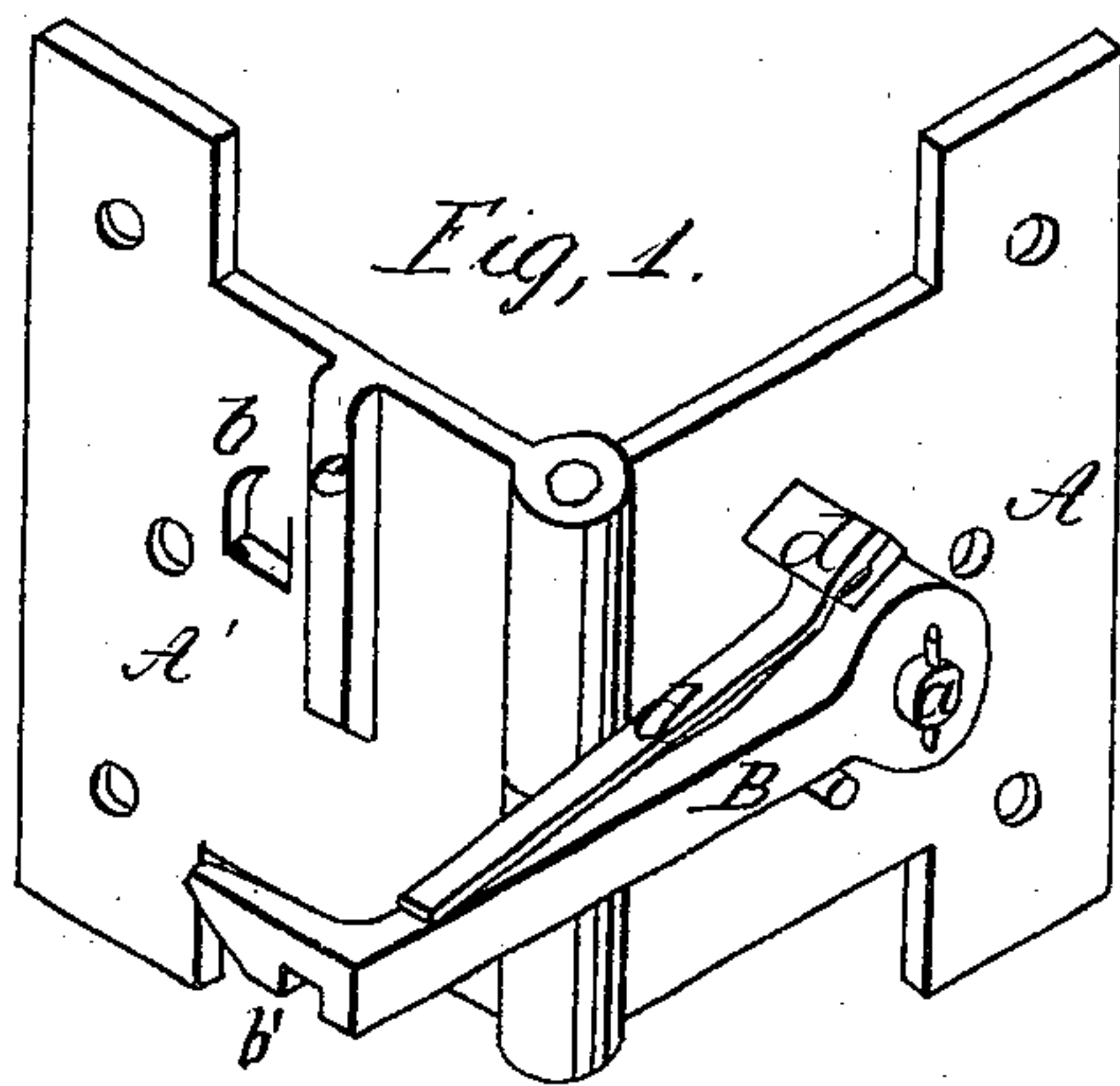


J. L. Cathcart.

Blind Hinge.

N^o 87,243.

Patented Feb. 23, 1869.



*Witnesses,
J. Snowden Bell.
H. W. Mydall*

*Inventor,
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By his attorney N. Crawford*

United States Patent Office.

JAMES L. CATHCART, OF GEORGETOWN, DISTRICT OF COLUMBIA.

Letters Patent No. 87,243, dated February 23, 1869.

IMPROVEMENT IN BLIND-HINGE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES L. CATHCART, of Georgetown, in the District of Columbia, have invented a new and useful Hinge for Window-Blinds; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention has for its object the providing a cheaper, less complicated, and more perfect hinge for securely holding the window-blind open, and prevent any possibility of its becoming unlocked when once thrown open and the catch takes hold of the hinge; and

It consists of a combination of contrivances attached to and operating upon the hinge itself.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

Figure 1 is a perspective view of the hinge, partly closed, and showing all the operating-parts;

Figure 2 is a cross-section of the same; and

Figure 3 is a view of the face-side of the hinge.

A and A', in the drawings, represent the two wings of the ordinary hinge for window-blinds.

a is a pivot-pin, made fast to wing A of the hinge, and upon which is placed the latch B, which is constructed with an eye fitting on to the pivot, and secured thereon in any proper way to allow of easy action.

This latch makes a right angle, at a proper distance from the pivoted point, forming the catch or means of holding upon the wing of the hinge A' when in position, as seen in figs. 2 and 3, and is inclined at the extreme end, to insure its entry into the hole *b* in the wing A' of the hinge.

d is a stud, in which is secured a spring, *d'*, which tends to force the latch toward the stud *c*, and thus to securely keep the latch always in position to enter the hole *b*, and force the catch, having notch *b'* in it, over and upon the wing of the hinge, as seen in fig. 2.

The stud *c* prevents the spring from forcing the latch so far that the end of the catch will not enter the hole *b* in the wing of the hinge when the inclined end strikes the bottom of the hole, and is forced up until the notch *b'* embraces the wing of the hinge, and is held in that position by the action of the spring.

e is a friction-plate, attached to wing A', and upon which the latch B slides, instead of upon the hinge itself, whereby the friction of the latch is lessened, and the latch is held in a parallel position to the wings of the hinge when the blind is open.

The latch may be constructed in different forms, and other kinds of springs may be used to force the latch to its hold, as, for instance, there may be a coiled spring inserted in the eye of the latch, and around the pivot-pin *a*, or a spiral spring or springs, of rubber or other material, may be placed in such way as to hold the latch in its proper place, without departing from my invention.

This hinge is to be constructed in pairs, in other words, right and left hand, to accommodate the two wings of a window-blind, and, when attached in the ordinary way to the blind and window-frame, the blind, when thrown open, becomes firmly locked or fastened open, by the notch in the latch being forced through the hole in the hinge and upon the wing of the hinge.

To release the latch and close the blind, the end of the latch has only to be raised, and at the same time swing the blind shut, and the operation is complete.

I am aware that blind-hinges have been constructed with a latch and holding-device on one wing, and a catch upon the other wing. Such construction and arrangement, I do not claim as my invention, for the construction and arrangement in my hinge are entirely different, and I claim no arrangement, construction, or combination of devices, except as hereinbefore described.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

The latch B, pivoted, at *a*, to one wing of a hinge, and having notch *b'*, studs *c* and *d*, with spring *d'*, when used in combination with a hinge having hole *b* and plate *e* in its other wing, constructed and arranged to operate substantially in the manner described.

JAMES L. CATHCART.

Witnesses:

H. N. MYGATT,
GEO. M. LEWIS.