

O. Paddock,

Blind Stop.

No. 96,950.

Patented Nov. 16, 1869.

Fig. 1.

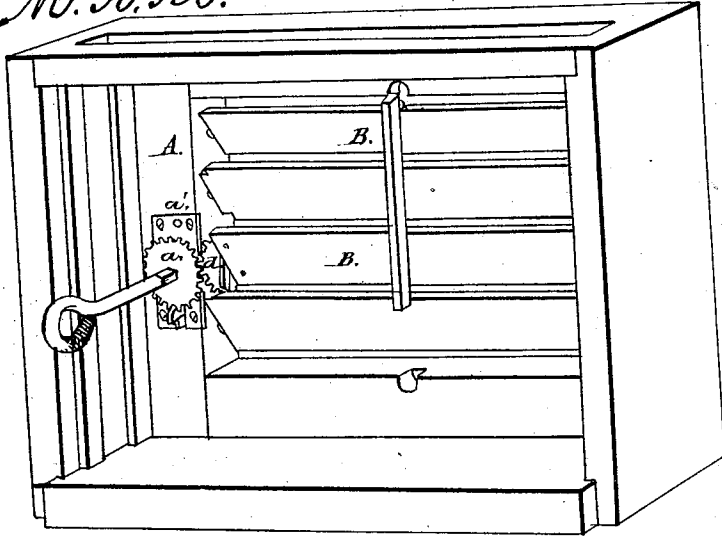
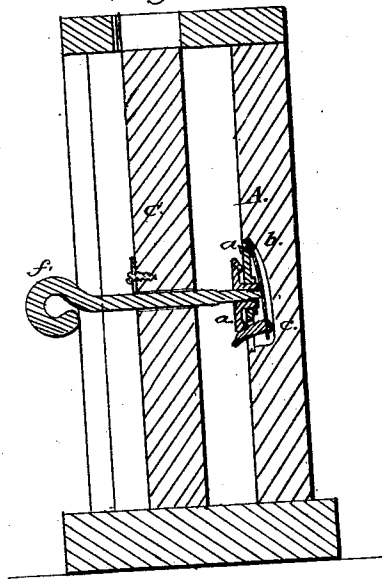


Fig. 2.



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United States Patent Office.

OSCAR PADDOCK, OF WATERTOWN, NEW YORK.

Letters Patent No. 96,950, dated November 16, 1869.

IMPROVED BLIND-SLAT OPERATOR.

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

To whom it may concern:

Be it known that I, OSCAR PADDOCK, of Watertown, county of Jefferson, and State of New York, have invented certain new and useful Improvements in Blind-Slat Openers and Fasteners; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings.

The object of my invention, in the main, is to furnish an improved device for effecting the opening and closing of blind-slats, without necessitating the raising of the window-sash.

The invention consists—

First, in the combination of a gear-wheel, fixed to one of the slats of the blind, with a corresponding gear-wheel, fixed to the inner face of the blind-frame, and a spring, arranged in rear of the latter gear, and carrying on its free end a catch or stop, which engages with the gear and projects therefrom, so as to form a thumb-piece, by pressing upon which the gear may be released, and left free to rotate the blind-slat gear.

Second, in the combination of the two gears above specified, and a spring catch, located in rear of and so as to engage with the gear, which is fixed to the blind-frame, when the latter gear is provided with a central hole or socket, in which a key may be inserted, so as to both push back the spring and rotate the gear.

The nature of my invention, and the manner in which the same is or may be carried into effect, will be readily understood by reference to the drawings, in which—

Figure 1 is a perspective view of a blind-fastener and opener, constructed and applied to a blind in accordance with my invention.

Figure 2 is a transverse section of the same.

The bevelled gear *a* is mounted in a plate, *a'*, which is fixed in the inner face of the blind-frame A.

In the rear of this plate is attached a spring, *b*, which lies in a recess formed for it in the blind-frame, and from the lower or free end of which projects a stud or stop, *c*, extending out through the plate *a'*, and located in such manner that it will engage with and lock the gear *a*, when the spring is in its normal position.

At right angles to the wheel *a*, is another bevelled gear or segment, *d*, which is attached to one of the connected blind-slats B, and is arranged to engage with the gear *a*.

In order to admit of the unlocking of the gear *a*, without the aid of a key, the end of the stop *c* is prolonged, so as to form a thumb-piece, by pressing upon which the gear will be unlocked, and can then be rotated, so as to open or close the slats, as desired.

The stop and thumb-piece *c* can only be used, however, when the window is open, and, therefore, in order to admit of operating the slats, without

raising the window-sash C, I form in the gear *a*, a central hole, or square or angular socket, which extends through the gear, as shown in fig. 2.

I then provide a key, *f*, the extreme end of which is somewhat reduced in size, so as to pass easily through the hole in the gear, while the remainder of the portion of the outer end of the shank is made of corresponding form with the socket, so as to fit the same, for the purpose of turning the gear.

When the blinds are to be moved, the key is inserted in the gear, until its outer end presses against the spring *b*, and thus disengages the stop *c* from the gear.

The key is then turned, care being taken to maintain the end pressure, until the blinds have been opened or closed to the desired extent, and pressure being then removed, or the key being then drawn out of the socket, the catch *c* will be forced to again engage with the gear, and hold it in position.

The key is of sufficient length to admit of its reaching the gear, after passing through a hole formed for it in the window-sash C, as seen in fig. 2, so that the blind can readily be actuated, without opening the window.

As the key is removed from the window, when not in use, the sashes can be raised or lowered without any inconvenience; and one key will suffice to operate any number of sets of gears, applied to one or more windows, so that the upper blinds of a window, if they be disconnected from the lower blinds, can be actuated without trouble.

When the socket and key are employed, the catch need not be constructed to serve as a thumb-piece, but I prefer the latter construction, as the blinds, when the window is opened, can thereby readily be operated without the use of the key.

Having now described my invention, and the manner in which the same is or may be carried into effect.

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

1. The combination of the two gears, fixed to the blind-slats and blind-frame, respectively, with the gear-stop and thumb-piece and spring, to which the same is attached, said parts being constructed and arranged to operate as shown and set forth.

2. A blind-slat opener and fastener, composed of the two gears, fixed to the blind-frame and slats, respectively, and the spring stop, for locking the gears, when the blind-frame gear is provided with a central opening or socket, for the passage of the key, and the spring stop is arranged in rear of said opening, so as to be operated by the key, substantially as shown and described.

In testimony whereof, I have signed my name to this specification, before two subscribing witnesses.

OSCAR PADDOCK.

Witnesses:

ALLEN NIMS,
LUKE MCGLEW.