

H. H. SHERWOOD.
Shutter-Workers.

No. 152,524.

Patented June 30, 1874.

Fig. 1.

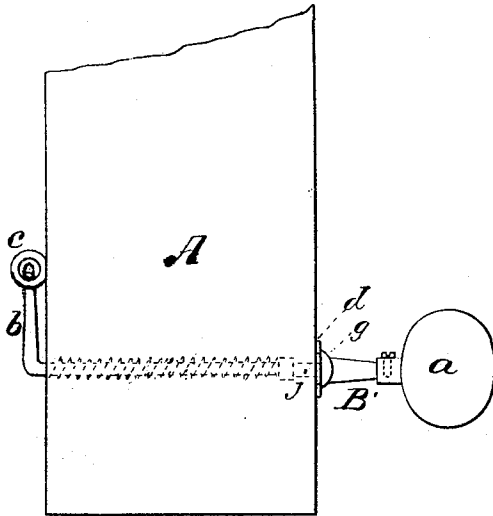


Fig. 2.

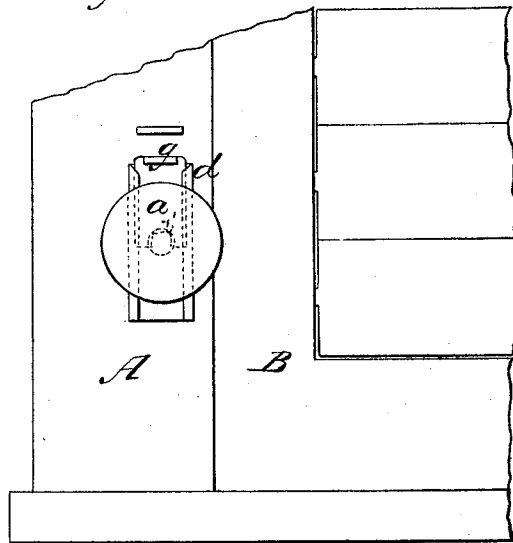


Fig. 3.

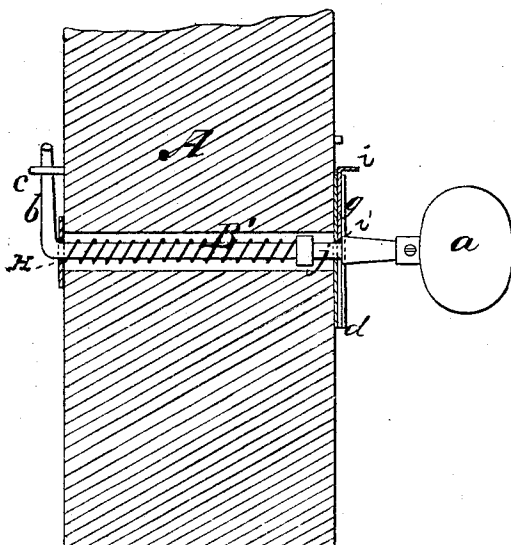
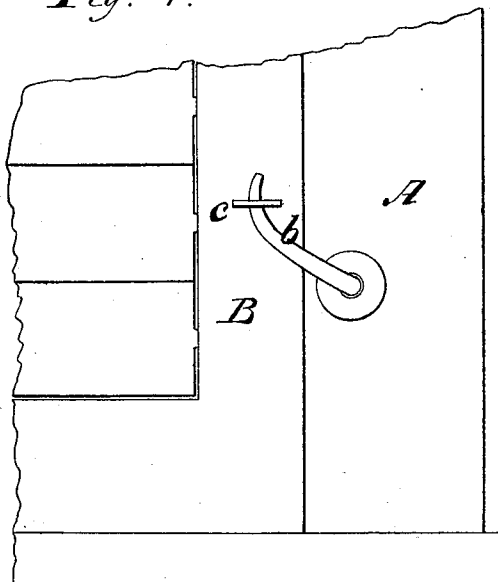


Fig. 4.



WITNESSES

Mary J. Utley.
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By

INVENTOR

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

HORACE H. SHERWOOD, OF FREDERICKTOWN, OHIO.

IMPROVEMENT IN SHUTTER-WORKERS.

Specification forming part of Letters Patent No. **152,524**, dated June 30, 1874; application filed January 24, 1874.

To all whom it may concern :

Be it known that I, HORACE HENRY SHERWOOD, of the village of Fredericktown, in the county of Knox and State of Ohio, have invented a new and valuable Improvement in Shutter Openers and Closers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side view of my shutter opener and closer. Fig. 2 is a front view of the same. Fig. 3 is a sectional, and Fig. 4 a back, view of the same.

This invention has relation to devices which are designed for allowing outside shutters to be swung open and shut without the necessity of raising the sash or exposure to the weather.

The nature of my invention consists in a rotary stem, which plays through the window-casing, and is constructed with a hook-shaped crank on its outer end and a knob on its inner end, the said hook-shaped crank being connected to the outside of the shutter, near its hinged edge, by means of an eye, through which the crank will play, as will be hereinafter explained.

The following is a description of my improvements:

In the annexed drawings, A designates the casing of a window, and B the shutter, which latter may be connected to the casing by the simplest kind of hinges. B' is a rotary movable stem, which passes freely through the casing A, and has a knob, *a*, secured on its inner end. The outer end of this stem is bent at right angles to its main portion, and slightly

curved or hooked, so as to form a crank, *b*, which passes through an eye, *c*, fixed rigidly into the outer side of the shutter, near its hinged edge. The stem B', passes through two plates, *c'* and *d*, which are respectively secured to the outer and the inner surfaces of the casing A, which plates prevent the stem B' from wearing the casing. H designates a helical spring, applied about and on the stem B', which serves to keep the stem B' in place, but in practice I may at pleasure omit it. The inside plate *d* has its vertical edges flanged for receiving and guiding a slide, *g*, which slide has a lipped finger-piece, *i*, on its upper end, and a deep notch, *i'*, with parallel sides, cut into its lower end. When the shutter B is fully open or shut, and the sliding plate *g* is depressed, its notched end will embrace a reduced portion, *j*, of the stem B', and hold the shutter rigidly in either one of said positions.

The shutter is opened or closed by first moving the stem B' endwise, and then turning it about its longitudinal axis.

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

The rotary shaft B', with spring H, passing through the casing A, and having at one end a knob, *a*, while the other end terminates in a bent portion, slightly curved and hooked to form a crank, *b*, which passes through an eye, *c*, on the outer side of the shutter near its hinged edge, substantially as described and shown, for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HORACE HENRY SHERWOOD.

Witnesses:

SAMUEL ROGERS,
GEORGE S. STRONG.