

J. T. POPE.

Improvement in Shutter Workers.

No. 122,056.

Patented Dec. 19, 1871.

Fig. 1.

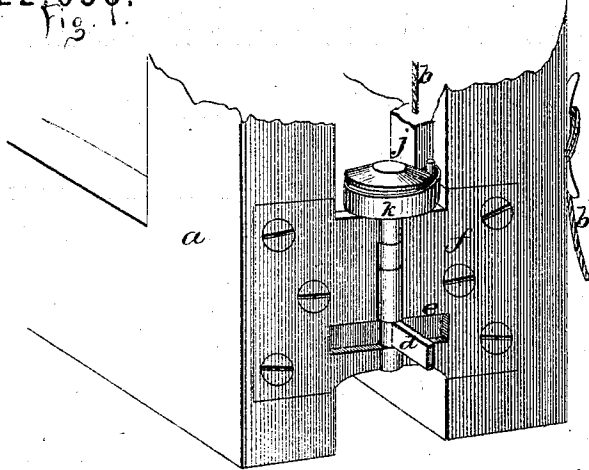


Fig. 2.

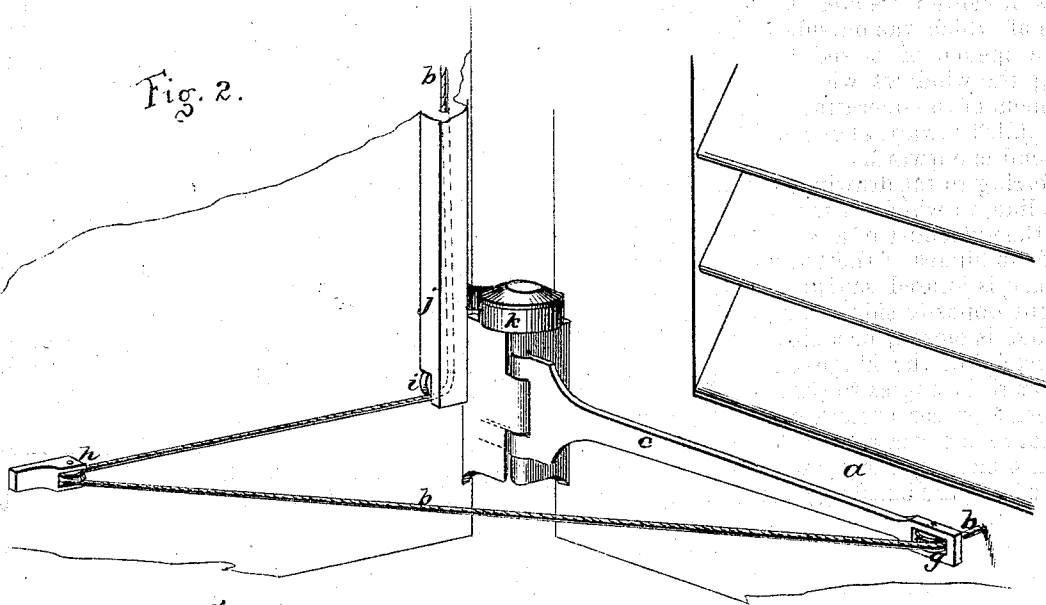
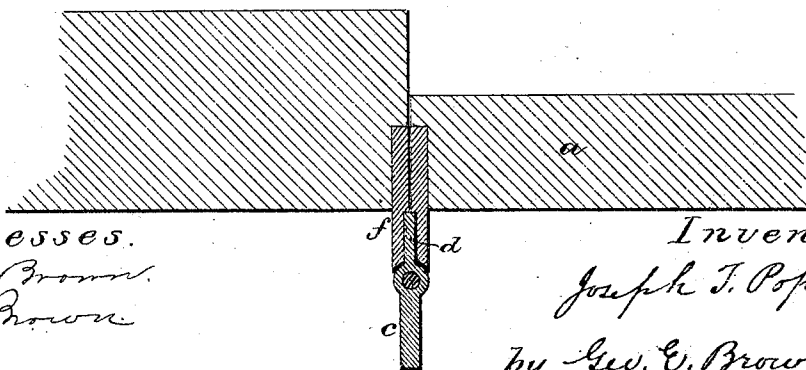


Fig. 3.



Witnesses.
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JOSEPH T. POPE, OF SCRANTON, PENNSYLVANIA.

IMPROVEMENT IN SHUTTER-WORKERS.

Specification forming part of Letters Patent No. 122,056, dated December 19, 1871.

To all whom it may concern:

Be it known that I, JOSEPH T. POPE, of Scranton, Luzerne county, Pennsylvania, have invented certain Improvements in Apparatus for Operating Window-Blinds, of which the following is a specification:

Figure 1 is a perspective view from the outside with the blind fully open. Fig. 2 is a similar view with the blind half closed, and Fig. 3 is a horizontal section, showing the blind fully closed.

This invention relates to an apparatus by means of which the outside blinds of buildings can be opened or closed from within without raising the windows which they guard, the arrangement of the operating-cord being such that when pulled inward at one end the strain at the other end is outward.

Referring to the drawing, *a* is a blind, shutter, or the like, to which is fastened, near its outer edge, the extremity of a cord, *b*. To the pivot of one of the hinges of the blind *a* the inner end of an arm, *c*, is jointed, said arm having a tail-piece, *d*, on the opposite side of its pivot, which, when the blind is closed, occupies a recess, *e*, in the fixed leaf *f* of the hinge, causing the arm *c* to stand at right angles to the side of the building. The cord *b* passes around a sheave, *g*, mounted in a slot in the arm *c*, near its outer end, thence around a sheave, *h*, mounted in a box attached to the side of the building; thence along the wall

to a sheave, *i*, placed at the lower end of a vertical conductor, *j*, within which the cord ascends to a horizontal passage leading through the wall of the building, which passage the cord traverses, and from whose inner end it descends within the room into which the passage opens. A spiral spring, *k*, is attached to the top of the hinge-pivot, the outer end of said spring being fastened to the wall, so that when the blind is opened it is resisted by the spring. When the cord *b* is pulled from within the room its strain upon the blind *a* is directed outward by means of the arm *c*, and the blind is consequently opened. When the blind reaches the arm *c* the latter swings with it toward the wall. Whenever the cord *b* is slackened the spring *k* causes the blind and arm *c* to swing to. The tail-piece *d* on entering the recess *e* stops the arm *c* when half closed, while the blind moves on till fully closed. The conductor *j* keeps dry so much of the cord as is drawn into the room, and also prevents draughts of air entering the house through the cord-passage.

I claim as my invention—

The combination of blind *a*, cord *b*, arm *c*, tail-piece *d*, recessed hinge, provided with a counter spring, and conductor *j*, all arranged as specified.

Witnesses:

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