

J. B. JEWELL.
Shutter-Worker.

No. 226,320.

Patented April 6, 1880.

Fig. 1.

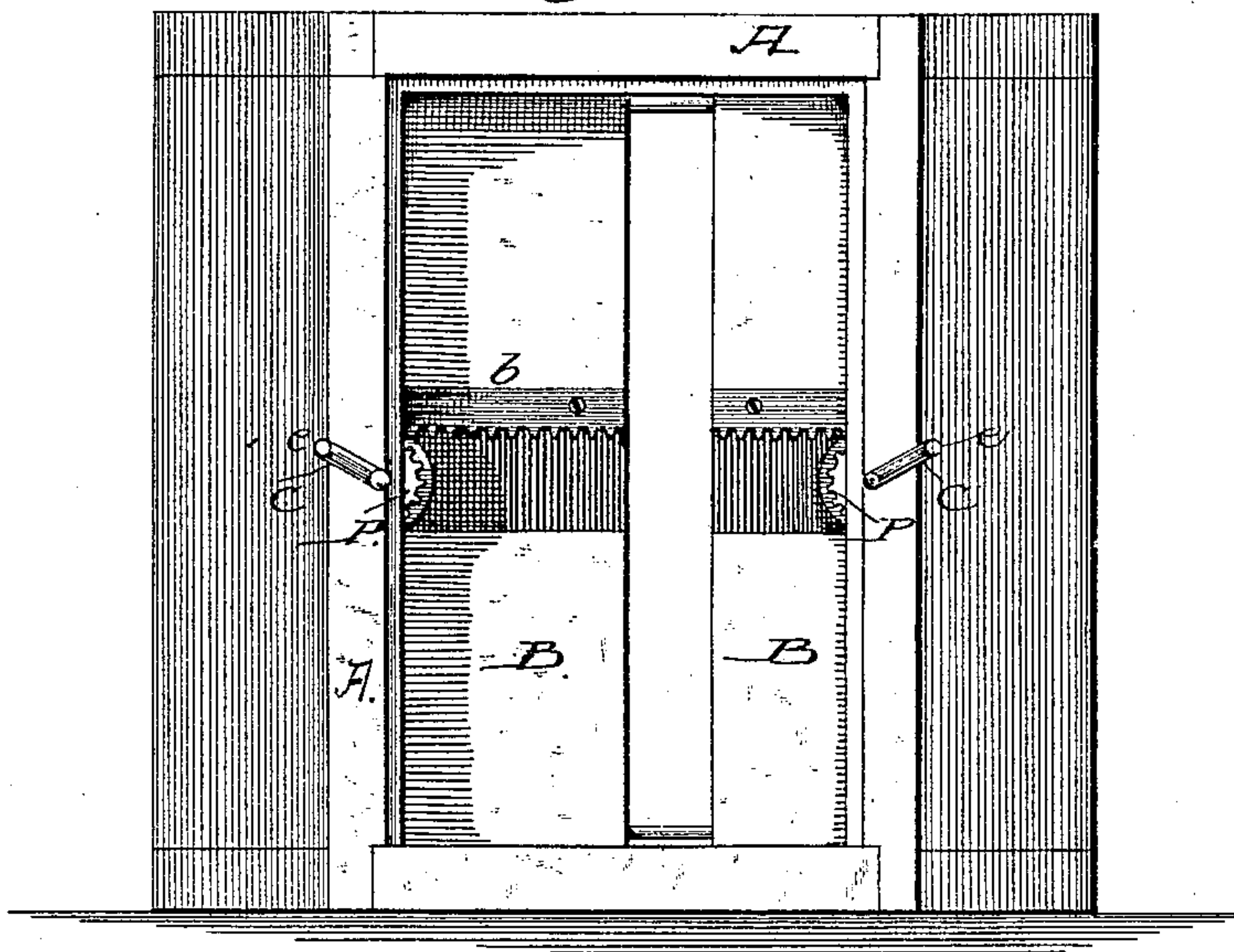
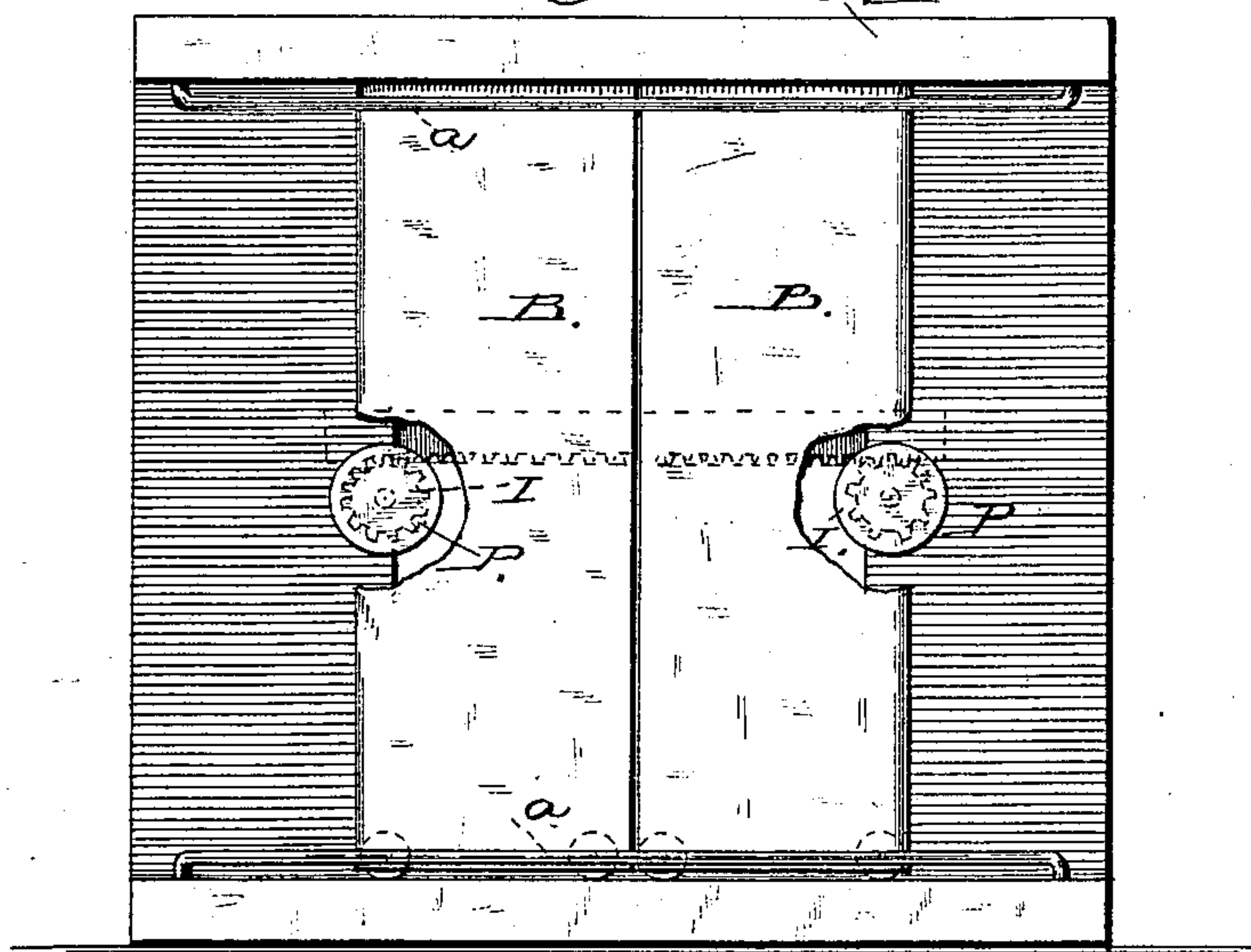


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN B. JEWELL, OF CARROLLTON, MISSOURI.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 226,320, dated April 6, 1880.

Application filed January 17, 1880.

To all whom it may concern:

Be it known that I, J. B. JEWELL, of Carrollton, in the State of Missouri, have invented a new and Improved Sliding Window-Blind; and I hereby declare the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is an elevation, showing the inside of the blinds closed. Fig. 2 is an elevation of the outside of the blind, showing a portion of the blind cut away to expose the operating mechanism.

The object of my invention is to provide a device for operating from the inside of the house sliding window-blinds wherein the devices for operating will hold and bind the shutter to the window-casing; and my invention consists in sliding shutters on ways outside of the house, in combination with a rack-bar and pinion operated from the inside, said pinion being provided with a flange which lies outside of the rack-bar, as hereinafter more fully described and claimed.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A is the window-frame, and B B the shutters, which slide on ways *a a* on the outside of the building. In a recess in each shutter is set a rack-bar, *b*, so arranged that a space is left between its lower

or toothed portion and the wood of the shutter. Through each side of the window-frame or casing run crank-shafts C C, provided with operating handles *e e*, and on their outer ends bearing pinions P P, whose teeth engage in the teeth of the rack-bars *b*. From the outer faces of the pinions, beyond the radial dimension of the teeth, project flanges I I, which set into the space between the rack bars and the shutter.

It is evident that as the pinions are turned by the crank-shafts they feed back and forth the rack-bars attached to the shutters, and thereby open or close the shutters, as is desired, and that in whatever location the shutter may be the flange lying behind the rack-bar always acts as a fastening device and holds the shutters to the window-frame through the medium of the shafts C C.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A shutter-operator consisting of a pinion, P, provided with a flange, I, and a crank-shaft, C, in combination with a sliding shutter, B, and a rack-bar, *b*, provided with a space between it and the shutter attached thereto, as set forth.

JOHN BARNET JEWELL.

Witnesses:

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JOSEPH L. ROY.