2 Sheets—Sheet 1.

R. G. DUDLEY.

Shutter-Worker.

No. 225,116. **Patented Mar. 2, 1880.**

Fig. 1.

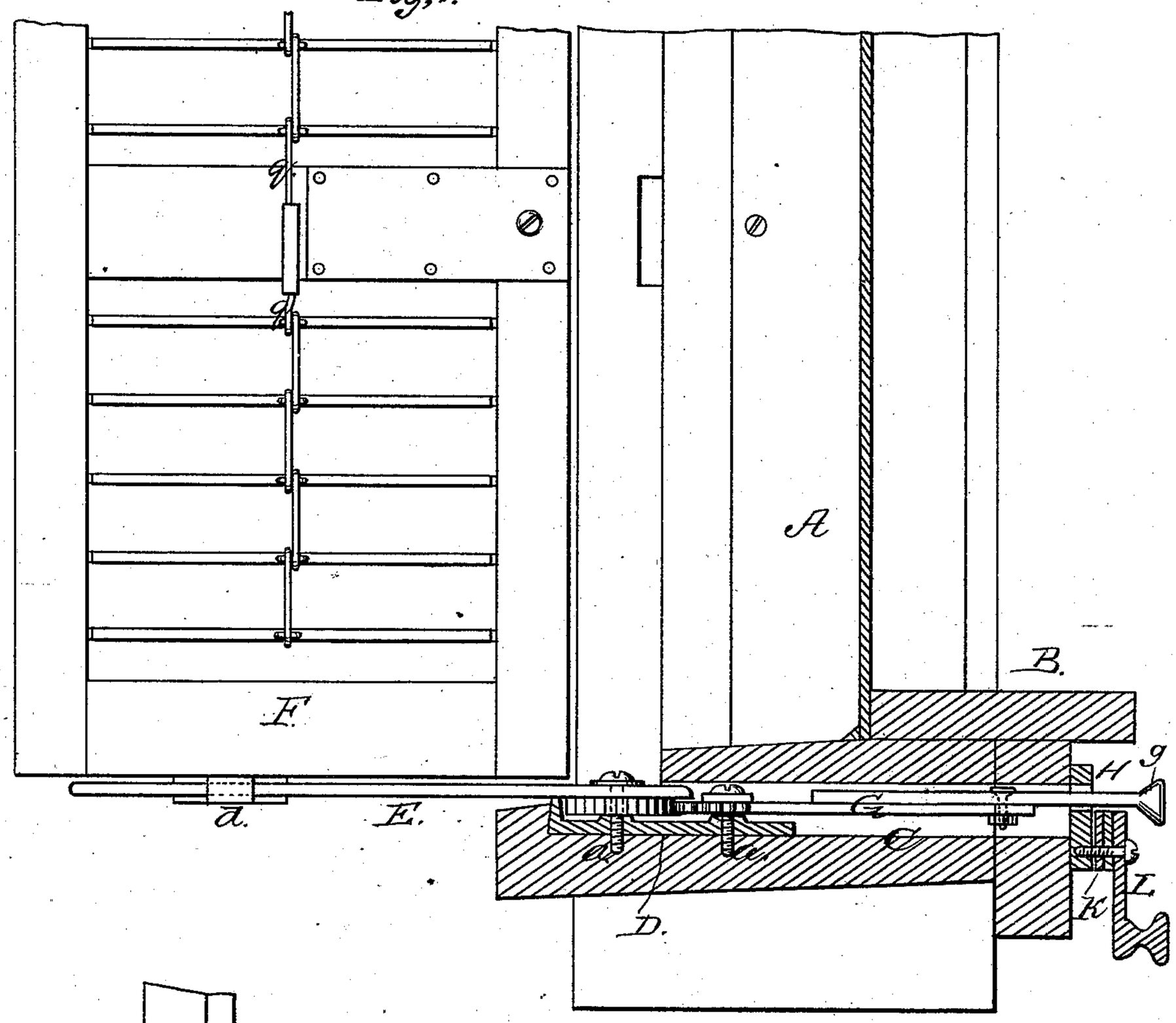
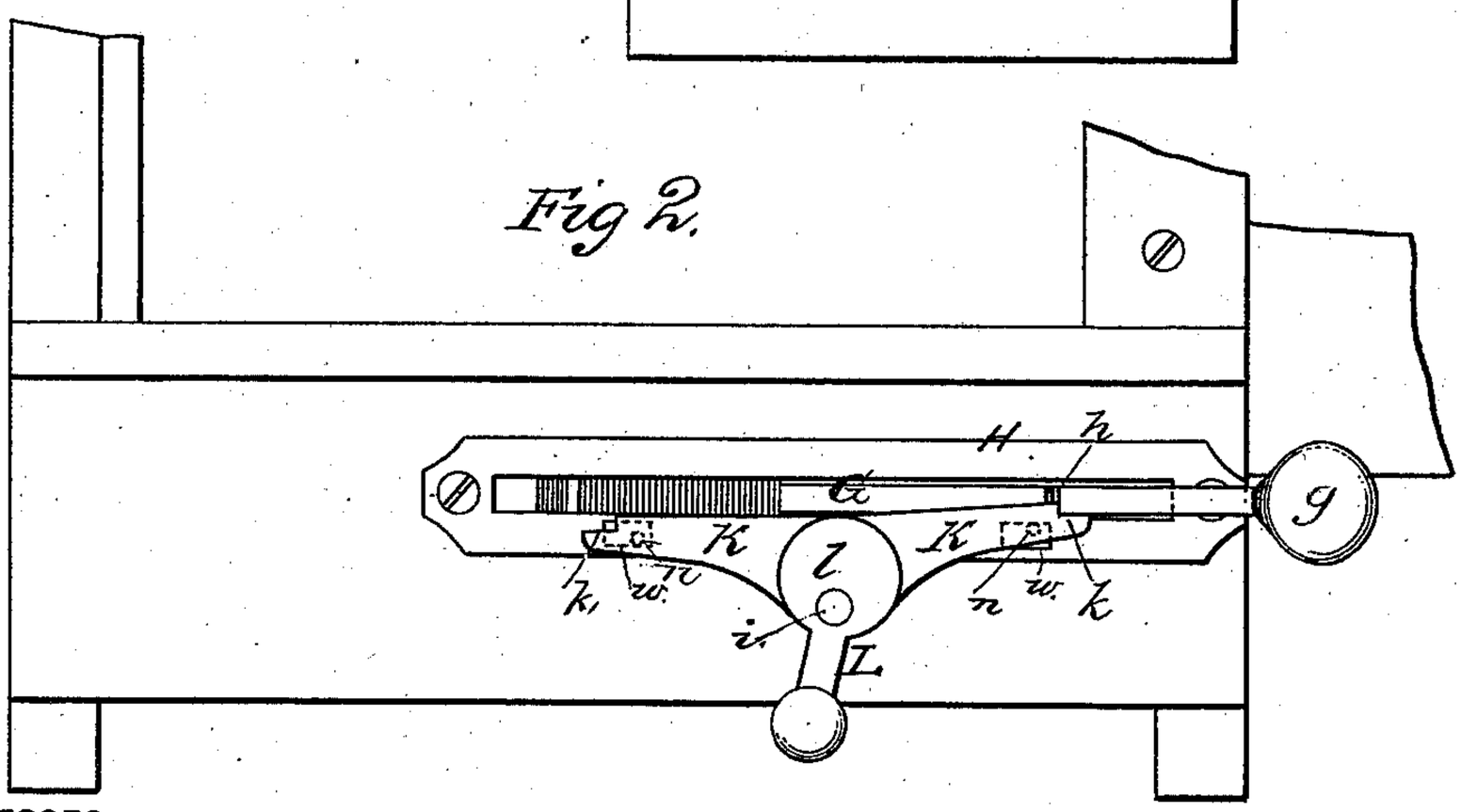


Fig 2.



WITNESSES

Villette Anderson.

F. J. Masi.

INVENTOR

Russel G. Dudley,

by E. W. Anderson

his ATTORNEY

2 Sheets—Sheet 2.

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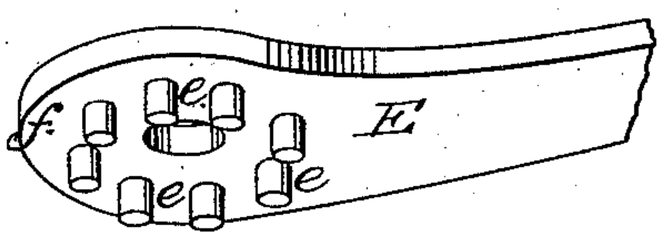

Fig. 4.

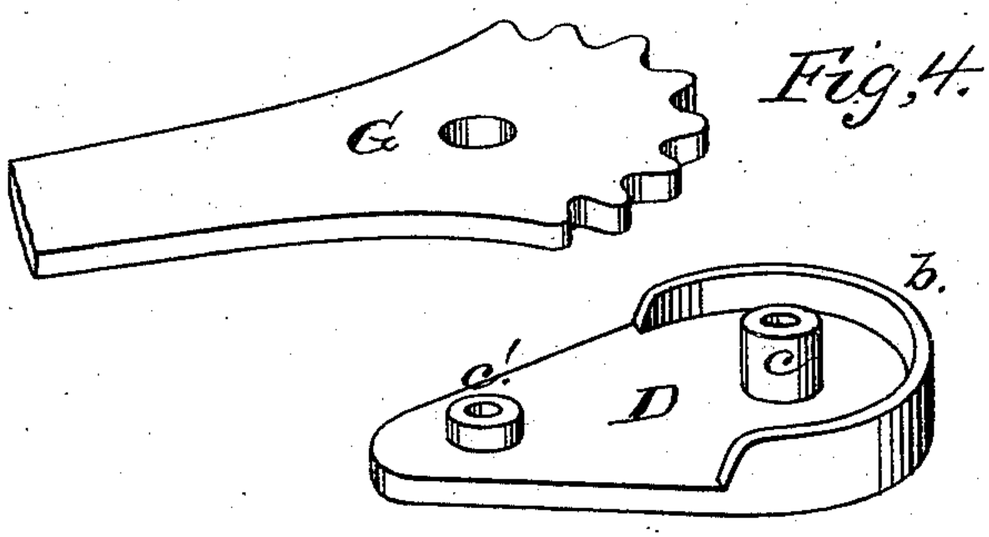

Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

RUSSEL G. DUDLEY, OF JERSEY CITY, NEW JERSEY.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 225,116, dated March 2, 1880.

Application filed January 6, 1880.

To all whom it may concern:

Be it known that I, RUSSEL G. DUDLEY, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and valuable Improvement in Burglar-Proof Blind Locks and Manipulators; 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 drawings is a representation of a transverse section of a window-frame, showing the blind open. Fig. 2 is an inside view of the frame, showing the arrangement of the locking device. Fig. 3 is a horizontal section of the frame, showing the operating-levers interlocked; and Fig. 4 shows detail perspective views of the said levers.

This invention has relation to means for operating and locking blinds or shutters from within without raising the window-sash or disturbing the curtains.

The nature of the invention consists in the combination, with the side-to-side-moving lever geared to the blind-lever and a slotted plate having ways, of the crank-eccentric and the locking-arms having fulcrum-studs, as hereinafter shown and described.

In the accompanying drawings, the letter A designates an ordinary window-frame, and B the sill, which is boxed underneath, as shown at C. To the lower board or floor of the box is fastened, by the center screws, *a a*, the bearing-plate D, which is provided at one end with a curved rim, *b*, and has a hollow center post, *c*, through which one of said screws passes, while at the center of the other end is arranged a shorter pivot-post, *c'*, through which the other screw passes. On the longer post *c* is pivoted the outer lever, E, one end of which passes through the slideway *d*, which is attached to the lower edge of the blind F, the other end being provided with teeth or studs *e*, to engage with the segment-shaped and toothed end of the inner lever, G.

The outer lever, E, is made with a broad bearing end, *f*, which rests on the rim *b* of the bearing-plate. The inner lever, G, is pivoted on the shorter post *c'*, and its handle end *g* extends through a slot in the window-frame, which is protected by a slotted plate, H. Notches *h* are made on the edges of this lever, to engage with the notches *k* at the ends of the locking-arms K of the locking device, so as to prevent them from being forced out of position.

L represents the eccentric crank or handle, having the eccentric *l*, and pivoted to the plate H under its slot, as shown in the drawings at *i*.

Circular openings are made in the ends of the locking-arms K, which encircle the eccentric, and said arms are provided with fulcrum-bearing studs *n*, which play in the ways *w* of the plate H in its lower portion under the slot.

The blind is operated by moving the lever-handle *g* from side to side, and it is locked in position at either end of the slot by turning the eccentric-crank upward, thereby depressing the engaged ends of the locking-arms and raising the notched ends, either of which can then, by manipulating the eccentric, be moved into engagement with the notch on the adjacent edge of the lever. By depressing the crank L the outer ends of the locking-arms are caused to fall to a level with the lower edge of the slot in the plate H, thereby leaving said slot free for the movement of the operating-lever G.

I am well aware that blinds have been operated from within by geared connections, and I do not claim, broadly, such devices.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the side-to-side-moving lever G, geared to the blind-lever, and the slotted plate H, having ways *w*, of the crank-eccentric L and the locking-arms K, having fulcrum-studs, substantially as specified.

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

RUSSEL GILBERT DUDLEY.

Witnesses:

GEORGE W. PAIRSON,

CHARLES ALLAIN.