

(No Model.)

2 Sheets—Sheet 1.

H. J. HUNSICKER.

BOLT FOR SHUTTERS, &c.

No. 334,953.

Patented Jan. 26, 1886.

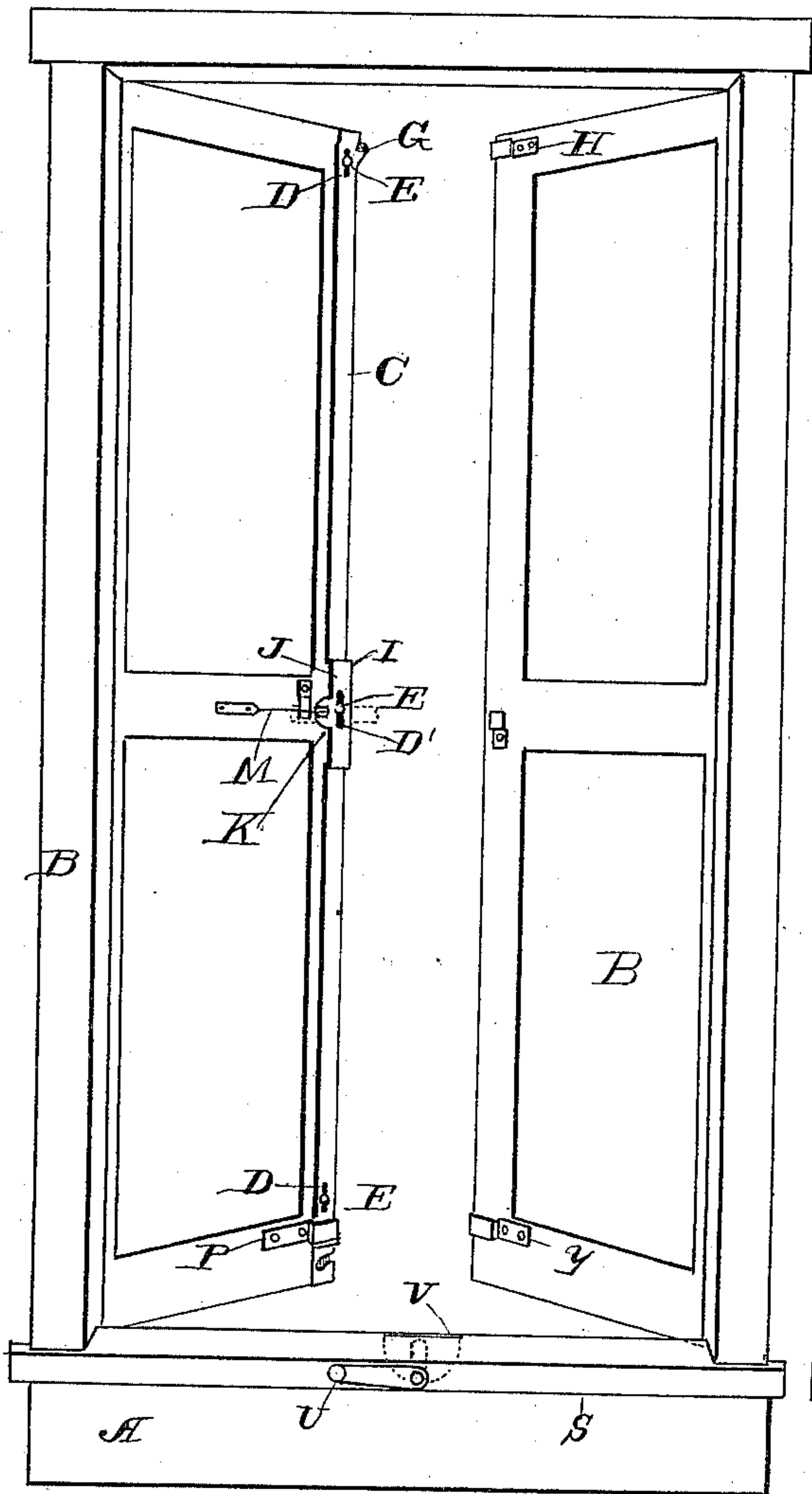


Fig. 1.

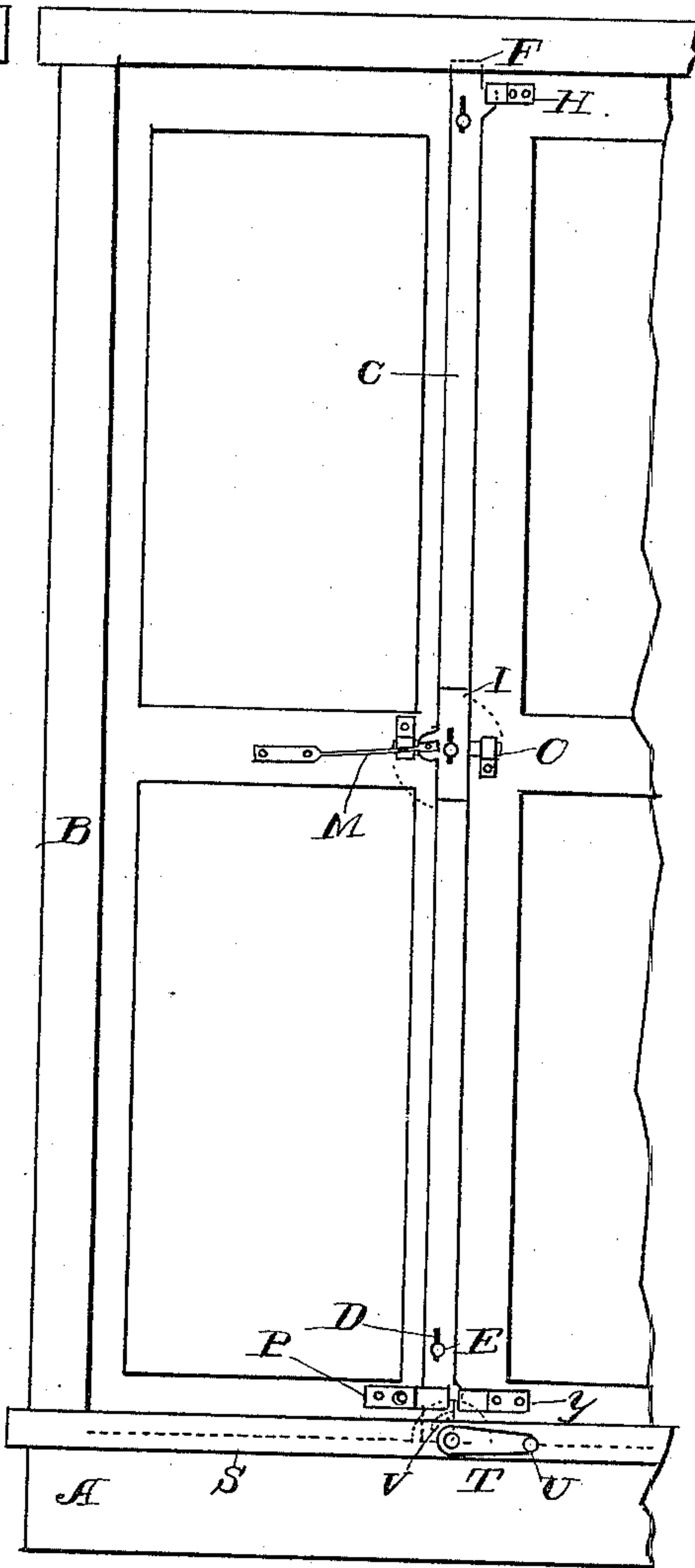


Fig. 2.

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INVENTOR :

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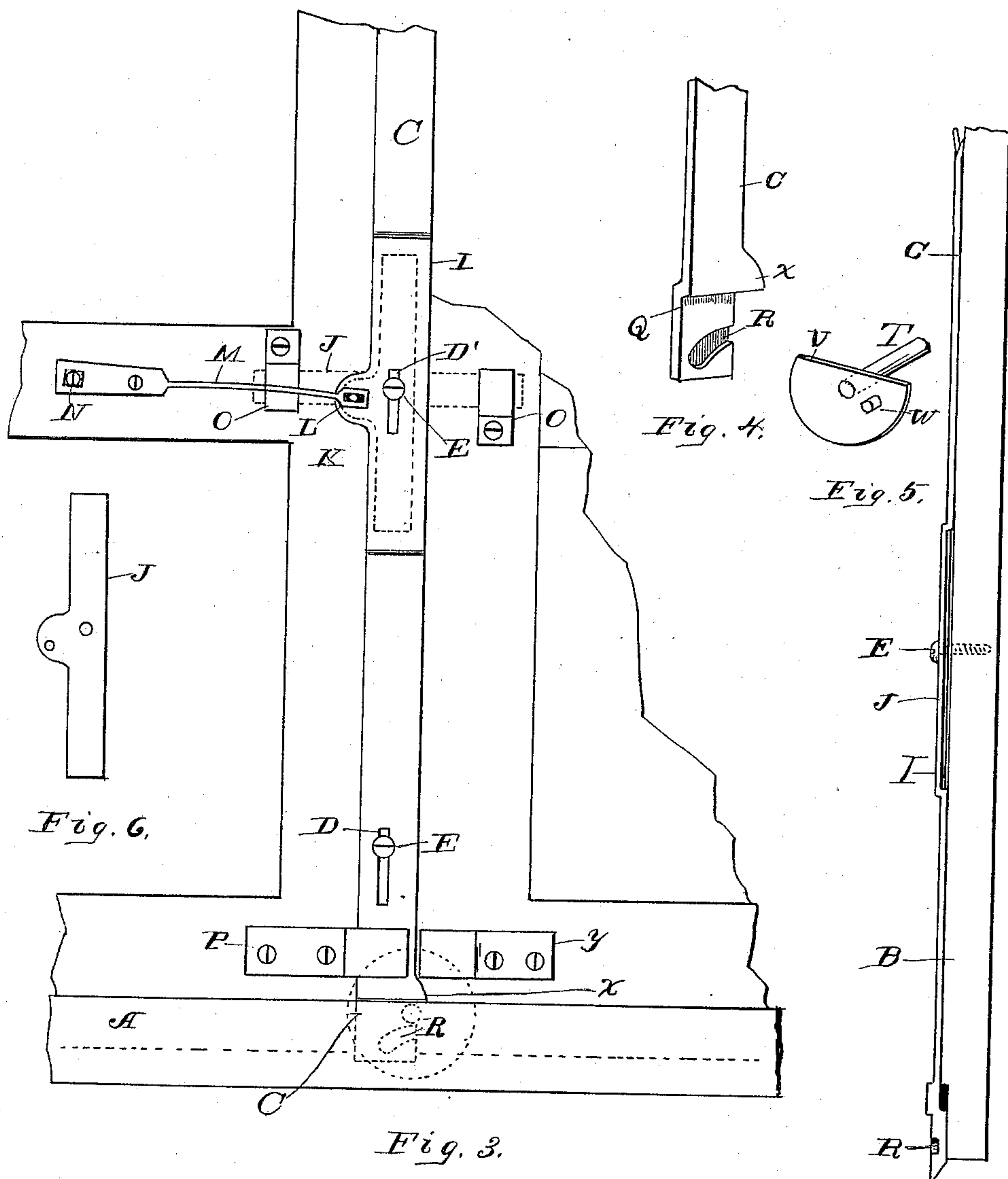
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Attorney.



# UNITED STATES PATENT OFFICE.

HENRY J. HUNSICKER, OF LAURELTON, PENNSYLVANIA.

## BOLT FOR SHUTTERS, &c.

SPECIFICATION forming part of Letters Patent No. 334,953, dated January 26, 1886.

Application filed August 25, 1885. Serial No. 175,325. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY J. HUNSICKER, of Laurelton, in the county of Union and State of Pennsylvania, have invented a new and useful Improvement in Locks for Shutters, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view of a window with my improved burglar-proof lock; Fig. 2, an inside elevation of the same with the shutters closed and the lock in operation; Fig. 3, an enlarged view of the lock; and Figs. 4, 5, 6, and 7, enlarged detailed views of portions of the lock.

This invention relates to improved locks for shutters, consisting of a vertical bar on the inner side of one of the shutters, adjustable vertically by means of bolts through slots at suitable distances apart, and centrally provided with a spring connecting with a pivoted bolt vertically disposed when in its normal position. A shaft extends through the sill of the window, and is provided at its inner end with a crank, while at its outer end it is provided with a segmental piece designed to engage with the vertical bolt on the inner side of the shutter, so that when this shaft carrying the segmental piece is operated by means of the said crank the bolt will be forced upwardly, thus connecting with the jamb at the upper part of the frame, while at the same time the pivoted bolt at the center of the shutter is turned horizontally across the center rails of the shutters, so that they are securely locked.

In the accompanying drawings, A represents an ordinary window-frame having therein the usual shutters, B. One of these shutters is provided at the inner side with a vertical bolt or bar, C, having at the ends central vertical slots, D, cut therein to receive bolts E, extending into the shutter, so that the said bar may be adjusted vertically. The upper end of this bar C projects somewhat above the edge of the shutter, so that when the shutter is closed and the bar pushed forward it will engage with a recess, F, in the upper jamb of the window. Laterally from the slot D at the upper end of the bar I provide a wing, G, which is designed to overlap the opposite shutter and engage with the keeper H thereon.

The central portion of the bar C, having

therein the slot D', is somewhat raised at I, and beneath this raised portion a bolt, J, is pivoted centrally on the bolt E through the slot D'. The inner part of this raised portion has a wing, K, provided with a horizontal slot, and therein a lug, L, secured to the inner part of the bolt J, so that when the bar C is moved vertically this lug L, moved within this slot, has a tendency to turn the bolt J horizontally on the pivot E through the slot D'. The outer end of the lug L has also a spring, M, provided with a slot, so as to operate on the lug L. This spring is at a tension, and is designed to press downwardly against the said lug L, so that when the bar C is normally disposed it will be pressed downwardly, and at the same time the bolt J is thrown up into a vertical position under the raised portion I of the bar. The opposite end of the spring M from the lug L is secured to the shutter, with the extreme end provided with a slot, N, having therein a bolt or screw, so that the spring may be adjusted to different degrees of tension. Keepers O are provided on the opposite shutters, so that when the bolt J is turned down its opposite ends will rest securely therein.

The lower end of the bar C has a metallic keeper, P, placed over it, and below this keeper the bar C at c is flush with the face of the shutter B, the main portion of the bar C overlapping the said shutter. This part C of the bar has a curved slot, R, therein. Centrally through the sill S of the window-frame I provide a shaft, T, its inner end provided with a crank, U, while its outer end is provided with a bisected disk, V, having on its outer face a short lug, W, which lug, as the said shaft T and metal piece V are partially rotated by the crank U, will, when the shutters are closed, engage with the slot R in the end part, c', of the bar C, raising the said bar vertically. To assist in raising this bar the periphery of this metal piece V will engage with the shoulder X on the lower end of the bar C. When the crank U is turned to the left, as shown in Fig. 1, the metal piece V will be flush with the upper surface of the outer edge of the slot; but when the said crank is turned to the right, as shown in Fig. 2, the convex edge of this bisected metallic disk will extend above the edge of the slot, and at the



same time one edge of this metal piece will engage with one shutter, and the other edge will connect with the opposite shutter beneath the keeper Y.

5 When the shutters are open, as shown in Fig. 1, the crank U is turned to the left, which brings the metal piece V flush with the outer edge of the shutter, and the spring M, pressing the bar C downwardly, throws the bolt J  
10 up vertically beneath the bar C, so that it is entirely out of the way; but after the shutters are closed the operator turns the crank U from the position shown in Fig. 1 to the right, as shown in Fig. 2, and this move-  
15 ment engages the lug W and the periphery of the metal piece V with both the curved slots R and the shoulder X of the vertical bar or bolt C, and forcing it up, and the same move-  
20 ment of the vertical bar causes the lug L in the horizontal slot of the wing K to turn the bolt J into a horizontal position within the keepers O of the opposite shutters, and at the same time the upper end of the bar engages  
25 both with the recess F within the jamb of the frame, and the wing G connects with the opposite shutter beneath the keeper H, thus effectually securing the shutters in position.

The simple movement of the crank U from the position shown in Fig. 2 disengages the  
30 bisected disk V from the shutter having the keeper Y, and also permits of the vertical bar C resuming its original position, with its upper end disengaged from the recess F and the bolt J in a vertical position beneath the raised por-  
35 tion of the bar C.

Having described my invention, what I claim as new is—

1. In a lock for shutters, a horizontal shaft  
40 passing through the window-sill, having inwardly a crank and outwardly a bisected metal disk, so that when partially turning said disk

will come in contact with a vertical bar engaging it with the recess in the frame, and simultaneously a pivotal bolt operated by a spring is turned centrally on the shutters, thus secur- 45  
ing them in position, substantially as described.

2. In a lock for shutters, a horizontal shaft extending through the sill of the frame, having inwardly a crank and outwardly a bisected  
50 metallic disk provided with a lug on its outer face, which lug engages with a curved recess in the lower end of a vertical bar, while the periphery of the bisected disk may engage with a shoulder on the end of the vertical bar, and thus operate said bar vertically, all as  
55 shown and described.

3. The combination of the vertically-reciprocating bar, having the central portion raised to receive therein a pivotal bolt, with the spring engaging with the stud at one side of the piv- 60  
otal bolt and operating through a slot in a lateral wing of the vertical bar, substantially as described.

4. The combination of the vertically-reciprocating bar, the central portion of which is  
65 raised to receive therein a pivotal bolt, with the spring engaging with the stud at one side of the pivotal bolt and operating through a slot in the lateral wing of the said vertical bar, the lower end of said bar having therein a curved  
70 slot, with which a lug on the outer face of said bisected disk engages, the whole arranged and operating substantially as shown and de-  
scribed.

In testimony that I claim the foregoing I  
75 have hereunto set my hand, this 18th day of July, 1885, in the presence of witnesses.

HENRY J. HUNSICKER.

Witnesses:

CHARLES EMREY,  
LILA H. SCHNURE.