(No Model.)

G. HAYES.

WINDOW SLAT ADJUSTER.

No. 279,156. Patented June 12, 1883.

Fig. 1.

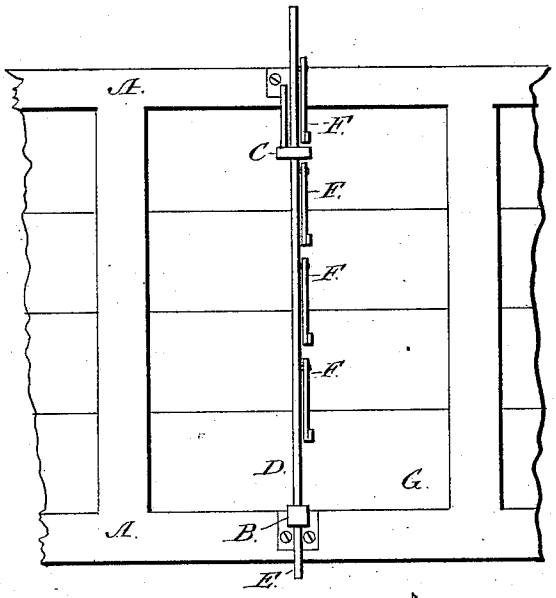


Fig. 2.

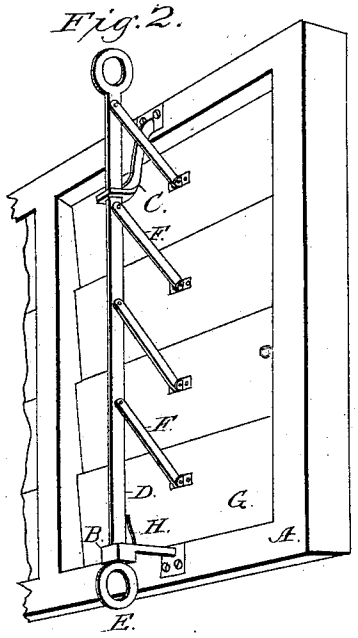


Fig. 3.

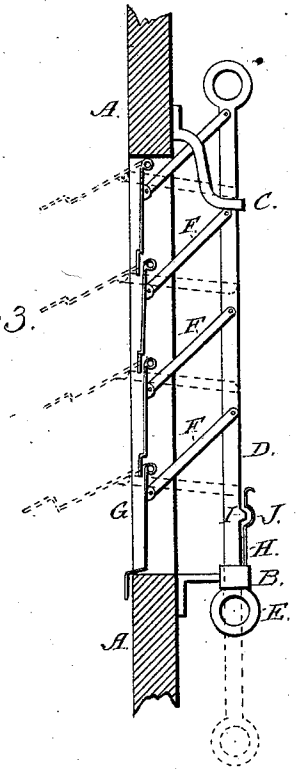


Fig. 4.

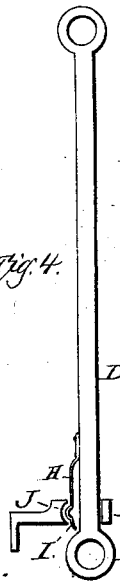
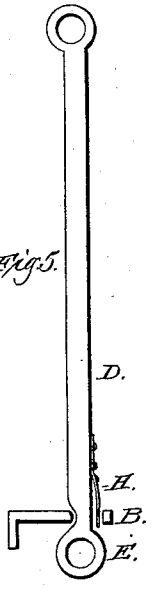


Fig. 5.



Witnesses;

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UNITED STATES PATENT OFFICE.

GEORGE HAYES, OF NEW YORK, N. Y.

WINDOW-SLAT ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 279,156, dated June 12, 1883.

Application filed April 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HAYES, a resident of the city, county, and State of New York, have invented a new and useful Device for Opening, Closing, and Self-Locking (in either position) Louvers, Slats, or Valves, of which the following is a specification.

The object of my invention is the opening of a series of slats, valves, or louvers simultaneously, and when opened holding them securely locked in that position, and by reversing the device closing them, and when closed holding them securely locked in that position; and my invention consists in a device comprising a rod or sliding bar provided with a supporting-bracket at or near its upper end and another supporting-bracket at or near its lower end, the latter being provided with a spring arranged and adapted to engage with the sliding bar, so that by its pressure the bar will be held and kept from sliding, (without application of exterior aid.) The bar runs through grooves in each bracket; or it may be provided with a slot through itself, a pin being passed through the slot therein to steady it. The spring may be attached to the bar and engage with the bracket, or it may be attached to the bracket, so as to engage with the bar, the one way being equivalent to the other. Spurs or links extending from the sliding rod connect it with each slat, valve, or louver by hinged or pivot joints, and the entire combination of elements is such that when the rod is drawn up the valves or louvers are shut and locked, and when the rod is drawn down the valves or louvers are opened and locked in that position.

In the accompanying drawings, Figure 1 is an elevation showing inside face of louvers or valves with my device in position. Fig. 2 is a perspective view of the same. Fig. 3 is a sectional view, showing the position of the device when the louvers are closed, and by dotted lines showing the position of device and louvers when open, also the spring on the bracket. Fig. 4 shows an equivalent arrangement, the spring being on the rod. Fig. 5 shows another equivalent arrangement, in which the rod itself is notched.

A represents the walls of the structure, which may be of a building, clear story, tower, or turret.

B is the lower bracket, and C is the upper bracket, to either of which the spring for holding the rod may be applied.

D is the rod or sliding bar, of any suitable sectional form, and it may run in slots or grooves of the brackets, or, by means of a slot in itself, straddle one or both brackets.

E, at the lower end, is a ring or hook, affording a place for connecting a cord thereto, and the one corresponding at the top answers the same purpose, so that it may be drawn upward and downward by cords; or it may be raised and lowered by hand, or by pole and hook, as desired and most suitable, according to the location.

F represents the spurs or links connecting the rod with the louvers, &c., one to each louver.

G represents the louvers, slats, or valves.

H represents the spring, the operation of which (by its pressure) serves to keep the rod or bar, when drawn up, from falling. This spring may be dispensed with when cords or chains are used to operate the rod, as the cords, &c., might be at that time fastened to some suitable place; but the spring is essential when no cords are used. This spring H may be attached to either bracket and press the rod, or vice versa. A nick or socket is made therein, at I, to fit snugly over a projection, J. The form and location of the parts I and J, however, may be varied to suit circumstances.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

In combination with slats, valves, or louvers G, the rod D, provided with supporting-brackets B and C, and links F, substantially as shown and described.

GEORGE HAYES.

In presence of—
SAML. M. HOPKINS,
GEO. A. HAYES.