(No Model.)

R. M. MARTIN.

BLIND SLAT ADJUSTER.

No. 301,453. Patented July 1, 1884.

Fig. 1.

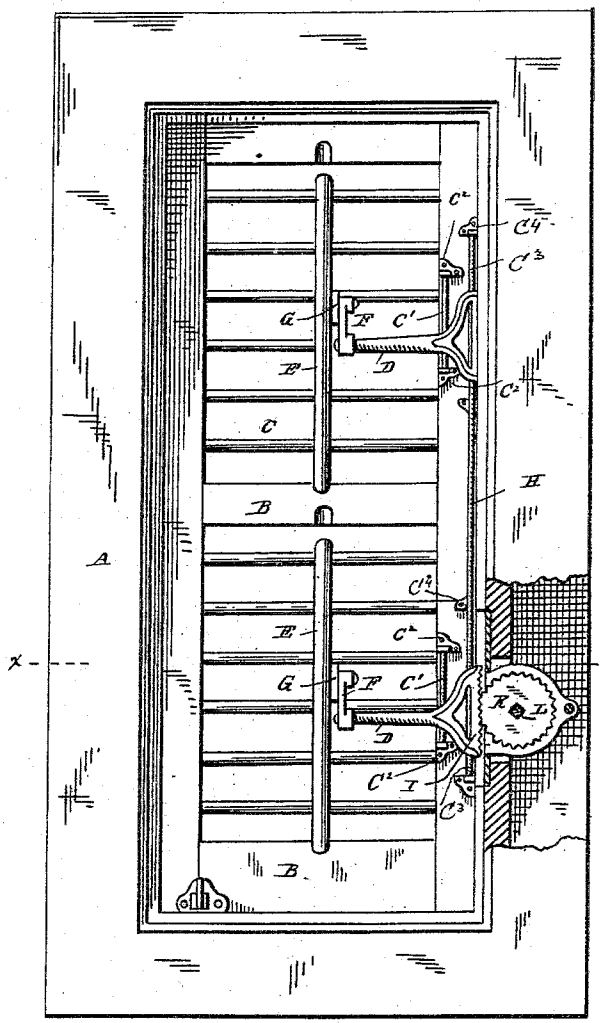
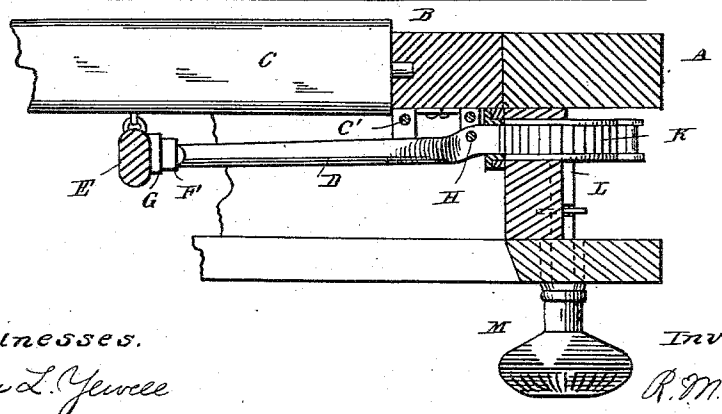


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

RICHARD M. MARTIN, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF ONE-HALF TO JOHN H. TOUSLEY, OF SAME PLACE.

BLIND-SLAT ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 301,453, dated July 1, 1884.

Application filed April 10, 1883. Renewed November 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, RICHARD M. MARTIN, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Blind-Slat Workers or Adjusters, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its objects to provide certain improved mechanism for operating the movable slats in window shutters or blinds in an expeditious and convenient manner, as more fully hereinafter specified. These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a front view of a window frame and blind, with a portion of the frame broken away, and showing my invention; and Fig. 2, a sectional view taken on the line *x x* of Fig. 1.

The letter A indicates the frame of the window, which may be of the ordinary or any approved construction, and B the blind or shutter, which is provided with movable or pivoted slats C. The said blind or shutter is provided near one edge, on the inside, with vertical rods C′, supported by brackets C^2 at their upper and lower ends, and also with similar longer rods, C^3, secured to brackets C^4. Upon the said rods are arranged to slide the pivoted brackets D, which connect to the vertical rods E, loosely connected with the slats, and are adapted to shift the same in the usual manner. The brackets are connected to the said rods E by means of the links F, which are pivoted to the ends of the brackets, and to suitable studs or pins projecting from the blocks G, attached to the rods E. The brackets are connected to each other by means of a vertical rod, H, so that they will move together, and the lower bracket has a rack, I, at its rear end, and is adapted to project into a slot in the lower edge of the frame when the shutter or blind is closed, so as to engage a cog-wheel, K, mounted in a recess in the said frame, upon a shaft, L, which projects inside and is provided with a knob, M, by turning which the mechanism may be operated to move the slats.

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

The combination, with the movable slat-rods E, of the brackets D, secured to said rods by means of lugs, the vertical rods C′ and C^3, secured to the blind by suitable brackets, the rod H, rigidly connecting the brackets D, the gear-wheel L, intermeshing with a rack at the rear of the lower bracket D, and mounted on a shaft provided with a suitable knob, whereby the parts may be operated, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD M. MARTIN.

Witnesses:
J. H. TOUSLEY,
S. H. WOOD.