

(No Model.)

M. S. BUCKNER.

WINDOW.

No. 326,943.

Patented Sept. 29, 1885.

Fig: 1.

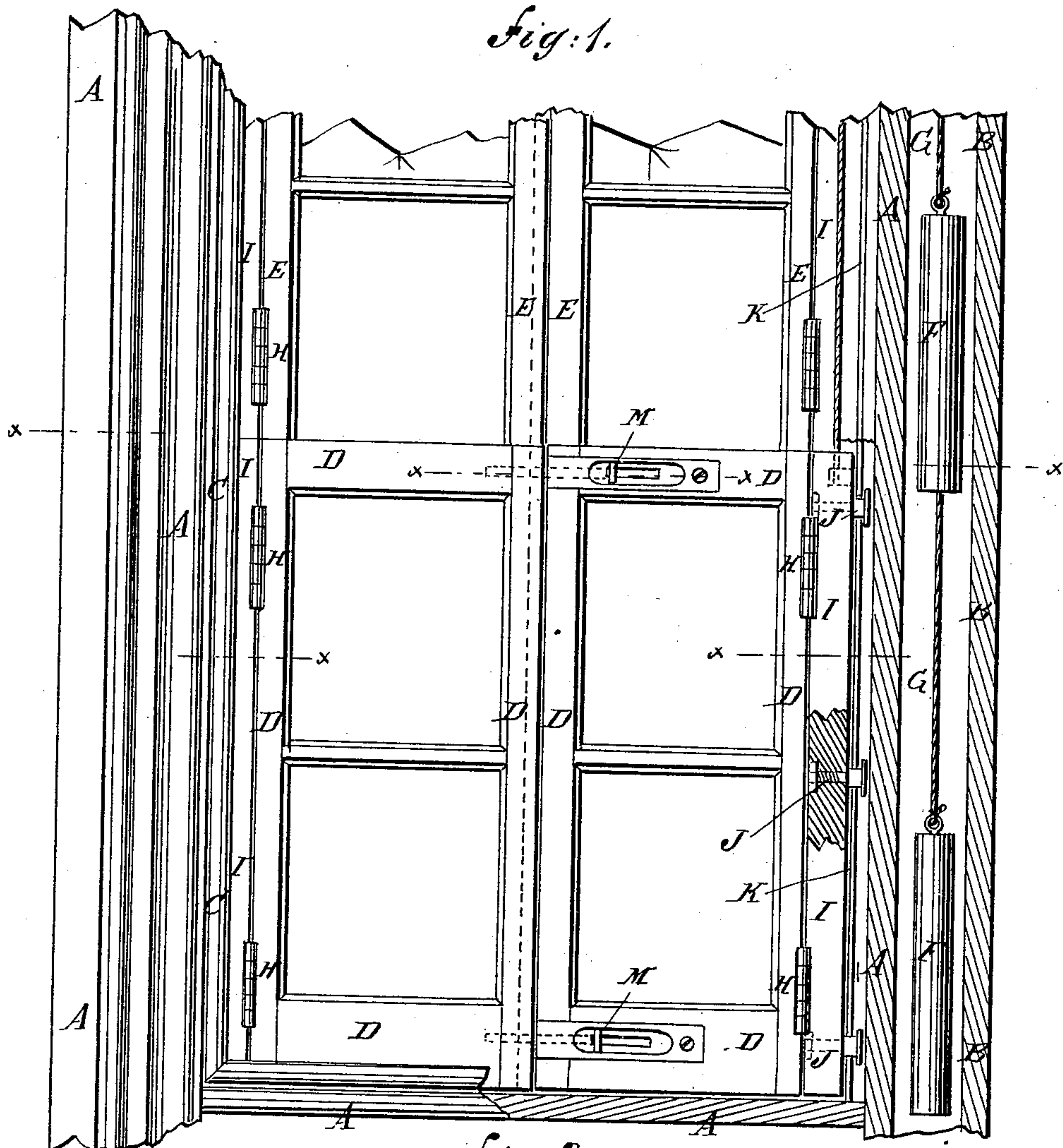
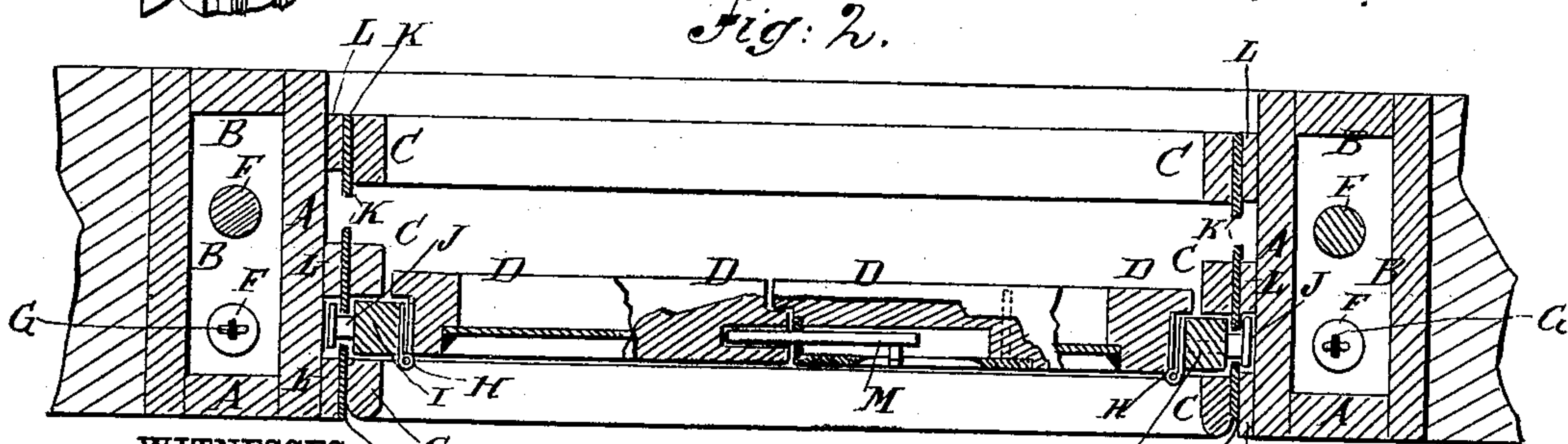


Fig: 2.



WITNESSES: K C

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UNITED STATES PATENT OFFICE.

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WINDOW.

SPECIFICATION forming part of Letters Patent No. 326,943, dated September 29, 1885.

Application filed December 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, MARION SCUDDER BUCKNER, of Savannah, in the county of Chatham and State of Georgia, have invented
5 a new and useful Improvement in Windows, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification,
10 in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a front elevation, partly in section, of a part of a window to which my improvement has been applied. Fig. 2 is a sectional plan view of the same, taken through
15 the broken line *x x x x x*, Fig. 1.

The object of this invention is to facilitate the washing of windows and promote convenience in opening and closing the said
20 windows.

The invention relates to a window-sash made in two parts and connected with the casing by hinges and hinging pieces provided with flat-headed bolts engaging with
25 guide-plates connected with the said casing, whereby the said sash can be raised and lowered like an ordinary sash and opened and closed like a door, and will be securely connected with the casing. The two parts of
30 the sliding and hinged window-sash are fastened together, when closed, by bolts, as will be hereinafter fully described and then claimed.

A represents a window-casing, in which are formed weight-boxes B in the ordinary
35 manner, and to which are attached guards C, to form grooves for the sashes to slide up and down in.

D is the lower sash, and E is the upper sash, which sashes may be provided with balancing-weights F and cords G, or not, as may be
40 desired.

Each of the sashes D E is made in two parts, rabbeted at their inner and outer edges to form close joints, and connected at their
45 outer edges by hinges H to pieces I, fitted into and sliding up and down in the grooves of the casing A. To each hinge-piece I are attached two or more bolts, J, as the size and weight of the sash may require. The bolts
50 J pass through holes in the hinge pieces I,

which holes are countersunk to receive the nuts screwed upon the forward ends of the said bolts, so that the outer surfaces of the said nuts will be flush with the surfaces of the said hinge-pieces, and will thus be prevented
55 from interfering with the opening and closing of the parts of the sashes D E. The bolts J are made with flat heads, which project at the inner sides of the hinge-pieces I so far as to underlap the adjacent edges of the metal
60 guide-plates K, secured to and between the guards C and the casing A, space being obtained for the bolt-heads by grooving the casing A at the bottoms of the sash-grooves, or by interposing thin strips L between the
65 said guide-plates and casing. The latter arrangement is shown in the drawings.

The parts of the sashes, when closed, are fastened together by bolts M, let into the top and bottom rails of one part of the sash, and
70 shooting into sockets in the other part, as shown in full and dotted lines in Fig. 1, and in full lines in Fig. 2.

With this construction the sashes D E can be raised and lowered with the same facility
75 as ordinary sashes, and can also be swung open and shut upon the hinges H in the manner of ordinary hinged doors, so that the outer sides of the window can be readily washed, and the window can be fully and easily opened
80 in warm weather to admit air to ventilate and cool the apartment, and quickly closed, when required.

I do not claim, broadly, a sash made of two parts hinged to swing horizontally on two
85 vertical bars that are held to slide vertically in the window-frame, as I am aware that such is not new.

I am aware that a two-part window-sash has been hinged to strips provided with T-
90 shaped tongues fitted to slide in corresponding grooves in the window-frame, and disclaim such broadly as of my invention.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—
95

1. The combination, with a window-sash divided vertically into two parts, and a window-frame having vertical guide-grooves, of vertical pieces I, to the outer faces of which the two-part sash is hinged, and the headed bolts
100

J, passing through the said pieces I and provided with the fastening-nuts flush with the outer faces of said pieces, whereby the nuts will not interfere with the hinging movement
5 of the sash, substantially as set forth.

2. The combination, with a window-sash made in two parts, and a window-casing; of the hinges H, the hinging-pieces I, the flat-headed bolts J, and the guide-plates K, sub-

stantially as herein shown and described, 10 whereby the said sash can be raised and lowered like an ordinary sash, and opened and closed like a door, and will be securely connected with the casing, as set forth.

MARION SCUDDER BUCKNER

Witnesses:

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