

No. 685,331.

Patented Oct. 29, 1901.

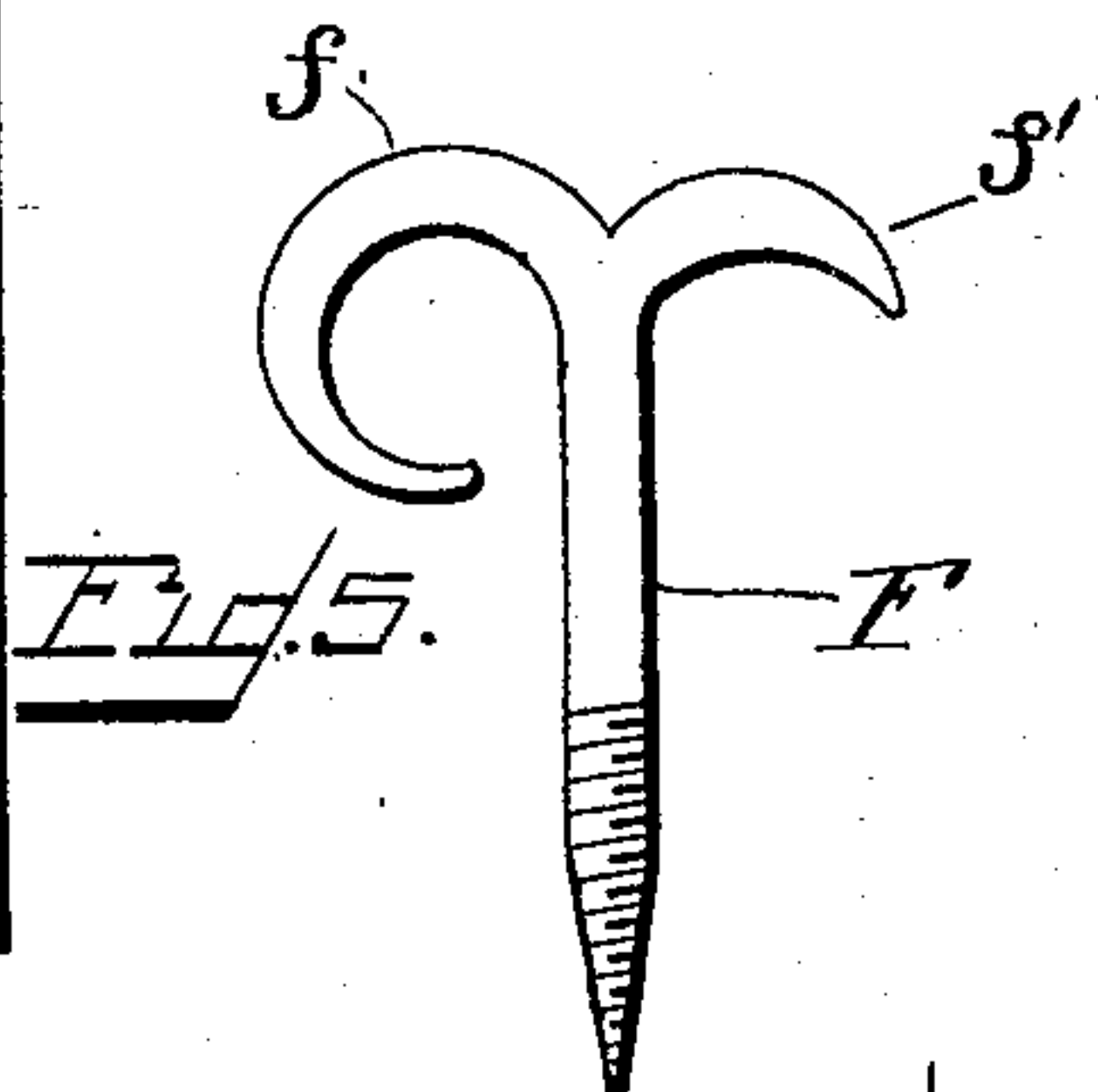
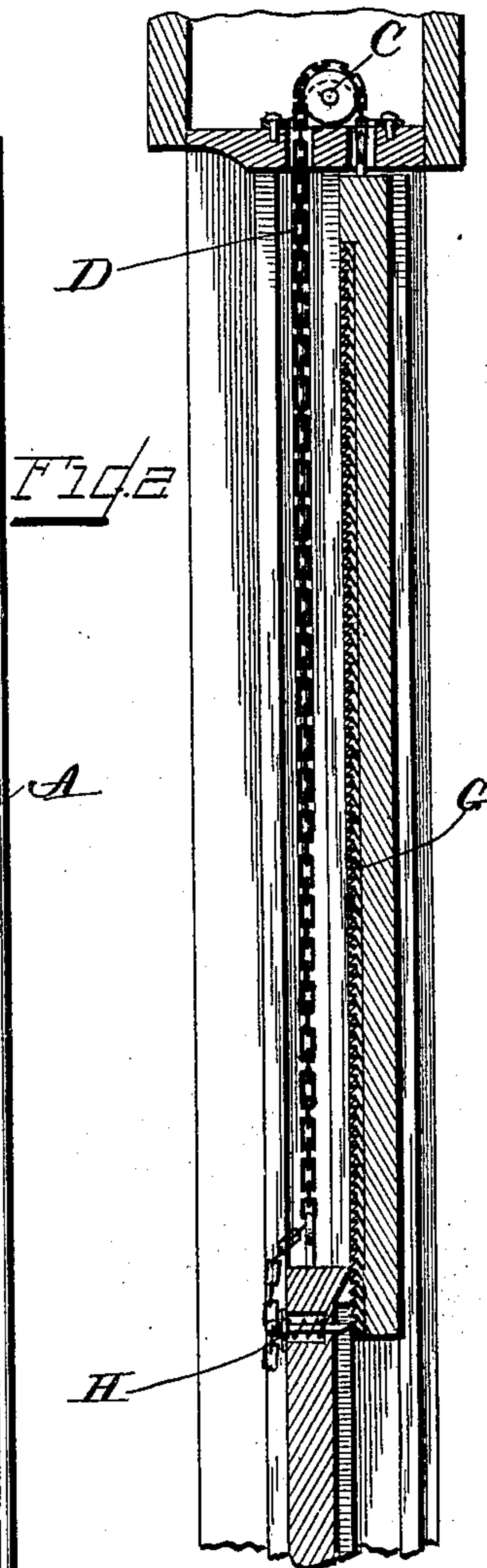
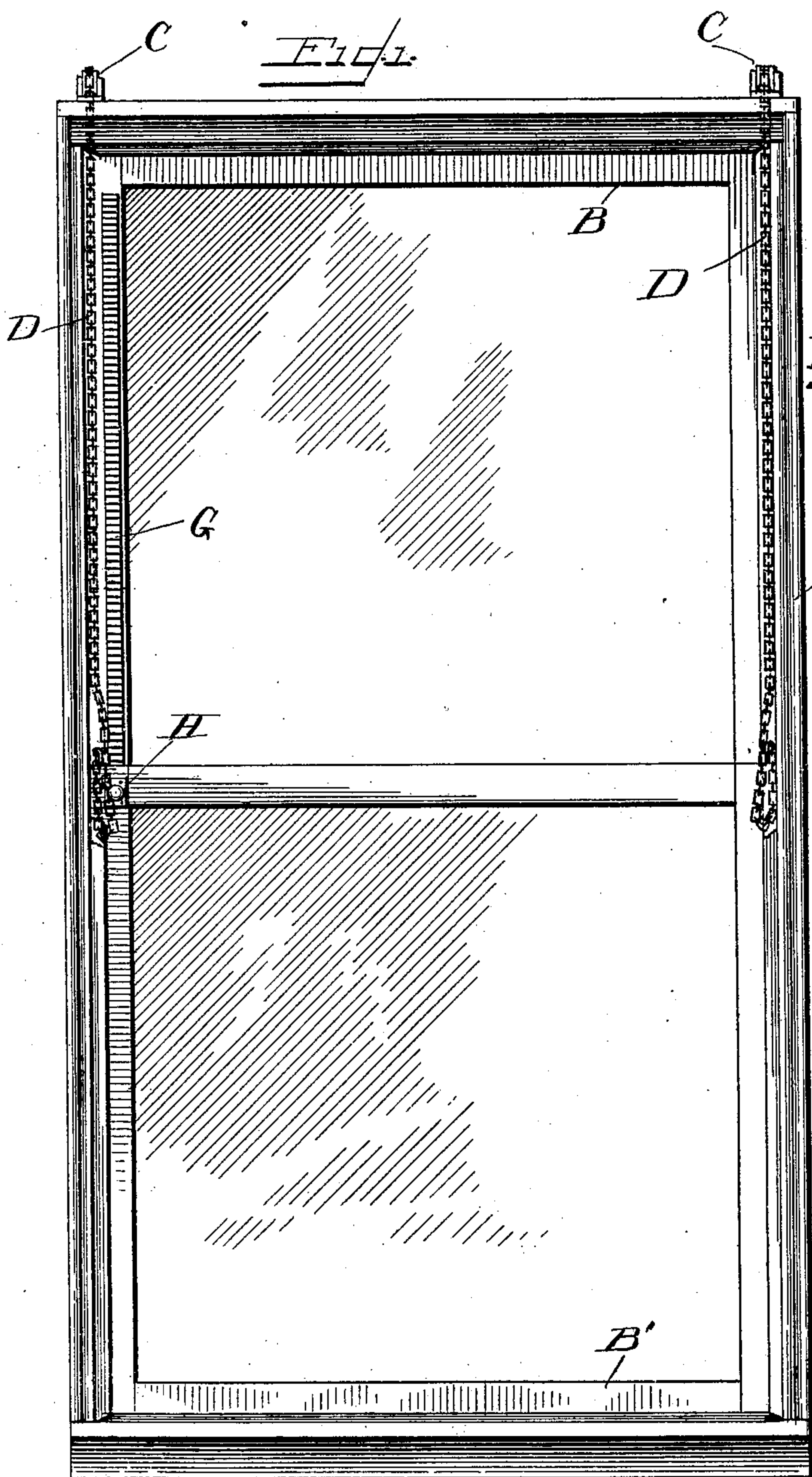
A. E. HEWITT.

SASH BALANCE.

(Application filed Dec. 23, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses

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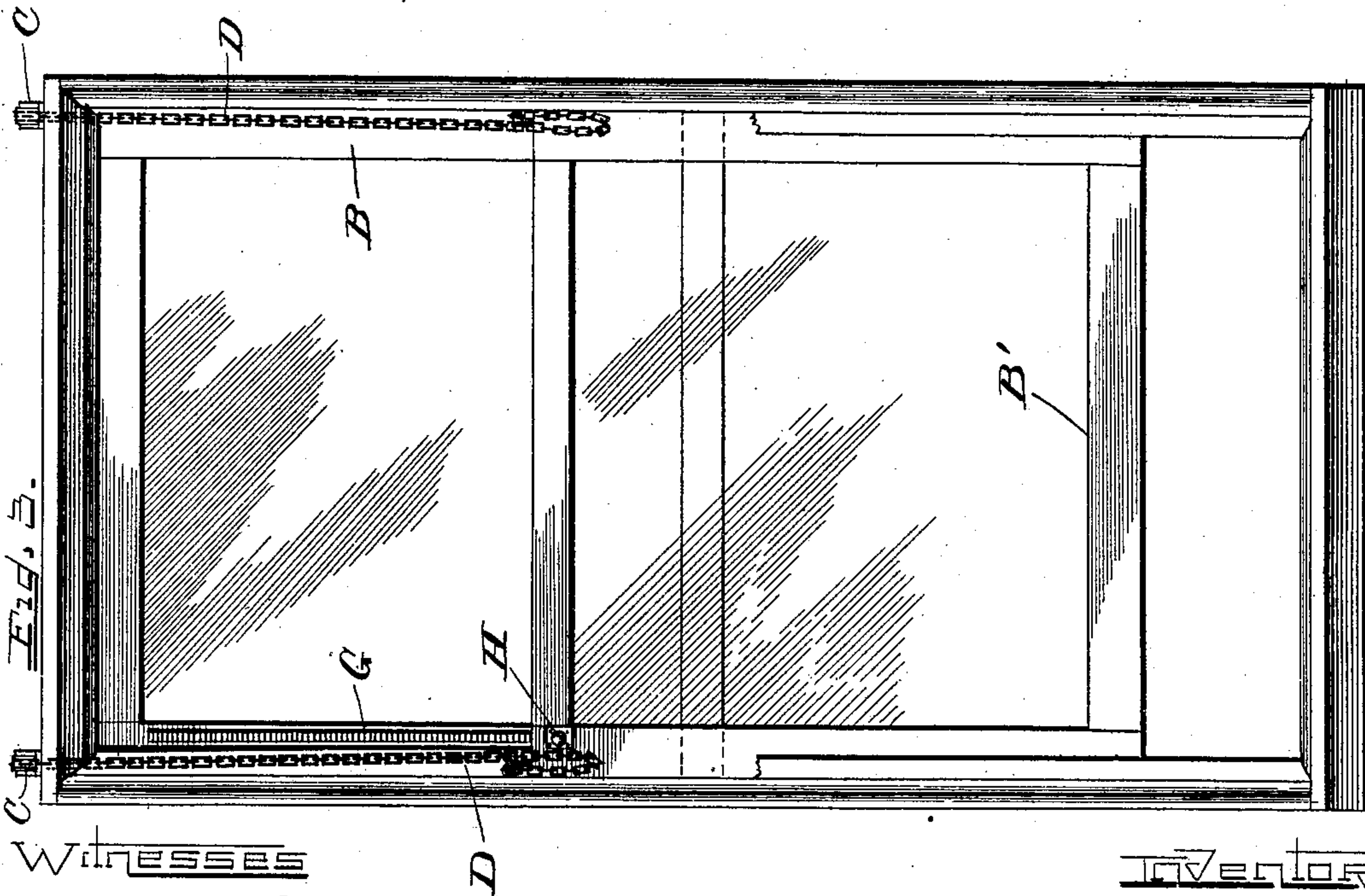
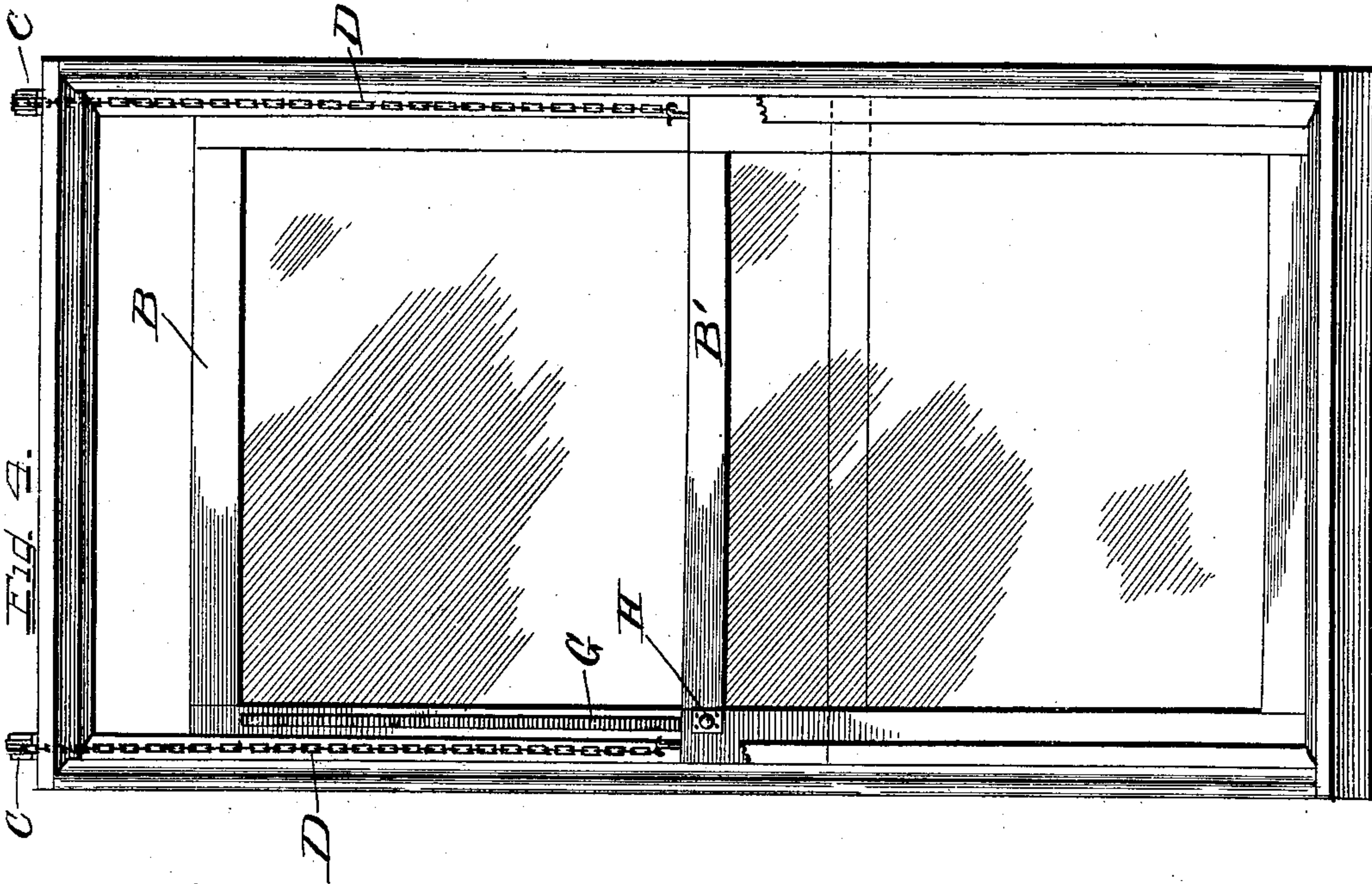
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2 Sheets—Sheet 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

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SASH-BALANCE.

SPECIFICATION forming part of Letters Patent No. 685,331, dated October 29, 1901.

Application filed December 23, 1899. Serial No. 741,362. (No model.)

To all whom it may concern:

Be it known that I, ALBERT E. HEWITT, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Balanced Sash, of which the following is a description.

Referring to the accompanying drawings, wherein like reference-letters indicate like or corresponding parts, Figure 1 is a front view of a window provided with my improvement. Fig. 2 is a vertical section of the same, showing details of construction. Fig. 3 is a view similar to Fig. 1, showing the sash in one of its adjusted positions. Fig. 4 is a similar view showing a different adjustment, and Fig. 5 is a detailed view.

My invention relates to that class of devices known as balanced window-sash in which the two sash composing the window or similar construction are arranged to balance one another; and it consists in the novel construction, arrangement, and combination of parts herein shown and described, and more particularly pointed out in the claim.

In the drawings, A represents a window-frame of ordinary construction provided with sash B B', adapted to slide upon one another in the usual manner.

C C are suitable pulleys arranged on top of the jamb of the window-frame, over which chains D or their equivalent are adapted to pass. One end of the chain D is permanently secured to the top of the sash B, while the other end is secured to the top of the sash B', the chain being of sufficient length to permit the upper sash B to normally drop part way down, as shown in Fig. 4. Any preferred means located upon the lower sash may be employed for taking up the slack of the chain when the upper sash is completely raised. For this purpose a simple means is a device F, consisting of hooks f and f' . The end of the chain may be permanently secured to one of the hooks, as to f , the other being employed as a simple means for securing the chain in an adjusted position. When it is desired to fully close both sash, the chain is shortened

by drawing upon it with the hand, which will raise the upper sash to the jamb, when the proper link of the chain may be engaged with the hook f' , the bight of the chain hanging down, as shown in Figs. 1 and 2. While so engaged the sash balance one another, and upon moving one the other will move an equal distance. If it be desired to raise the lower sash without changing the position of the upper one, the chain may be still further shortened in a similar manner—by raising the lower sash the desired distance and reengaging the chain with the hook f' . By this operation the lower sash may be opened without disturbing the upper sash, as shown in Fig. 3, or, if desired, by further opening the lower sash a greater opening at the bottom of the window than at the top will result. When it is desired to lower the top sash alone, the bight of the chain shown in Fig. 1 is detached from the hook f' , Fig. 4. While thus positioned any further lowering of the upper sash will result in a greater opening at the top of the window than at the bottom.

It is obvious that by my improvement the opening at the top and bottom of the window may be regulated as desired, the sash being balanced at all times.

By the use of the word "chains" in the claim I wish to be understood as also including such obvious equivalents as cords, wires, or metal bands, all well known in the sash-balancing art.

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

A balanced sash, comprising a frame A, pulleys C C, sash B B', and chains D D, of a length permitting the upper sash to be normally lowered as described, in combination with a double hook ff' , one of which hooks is permanently attached to the lower end of the chain D substantially as described.

ALBERT E. HEWITT.

Witnesses:

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