

(No Model.)

J. OEFINGER.  
SASH BALANCE.

No. 581,130.

Patented Apr. 20, 1897.

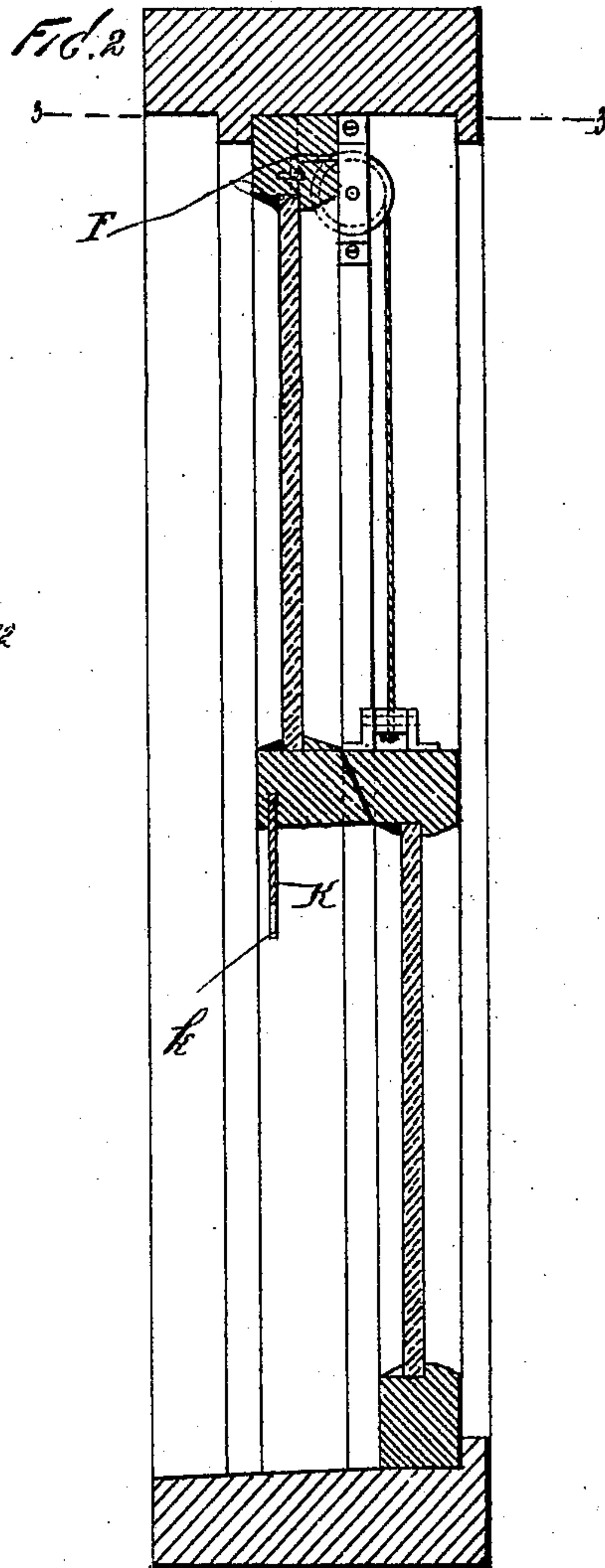
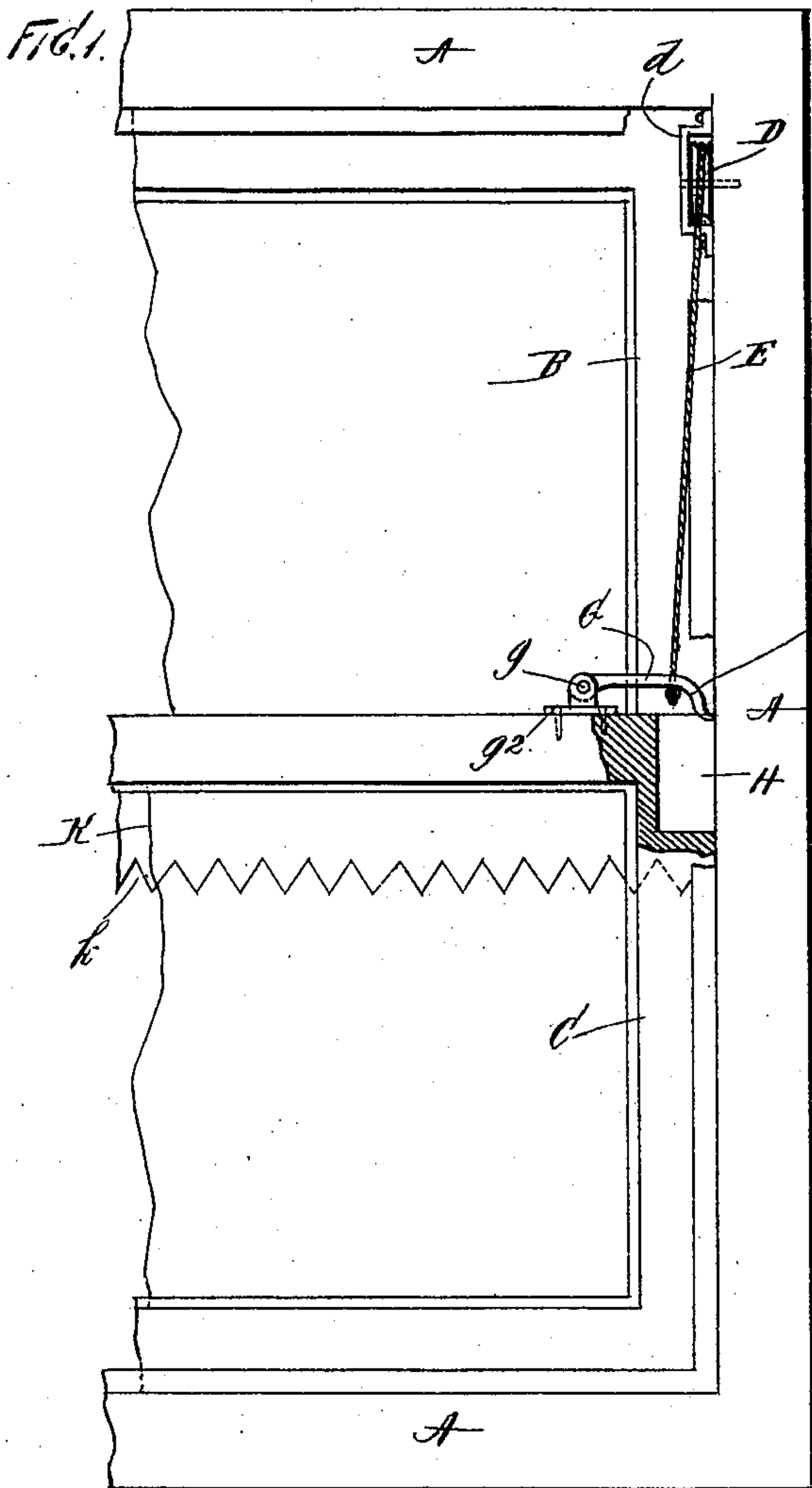
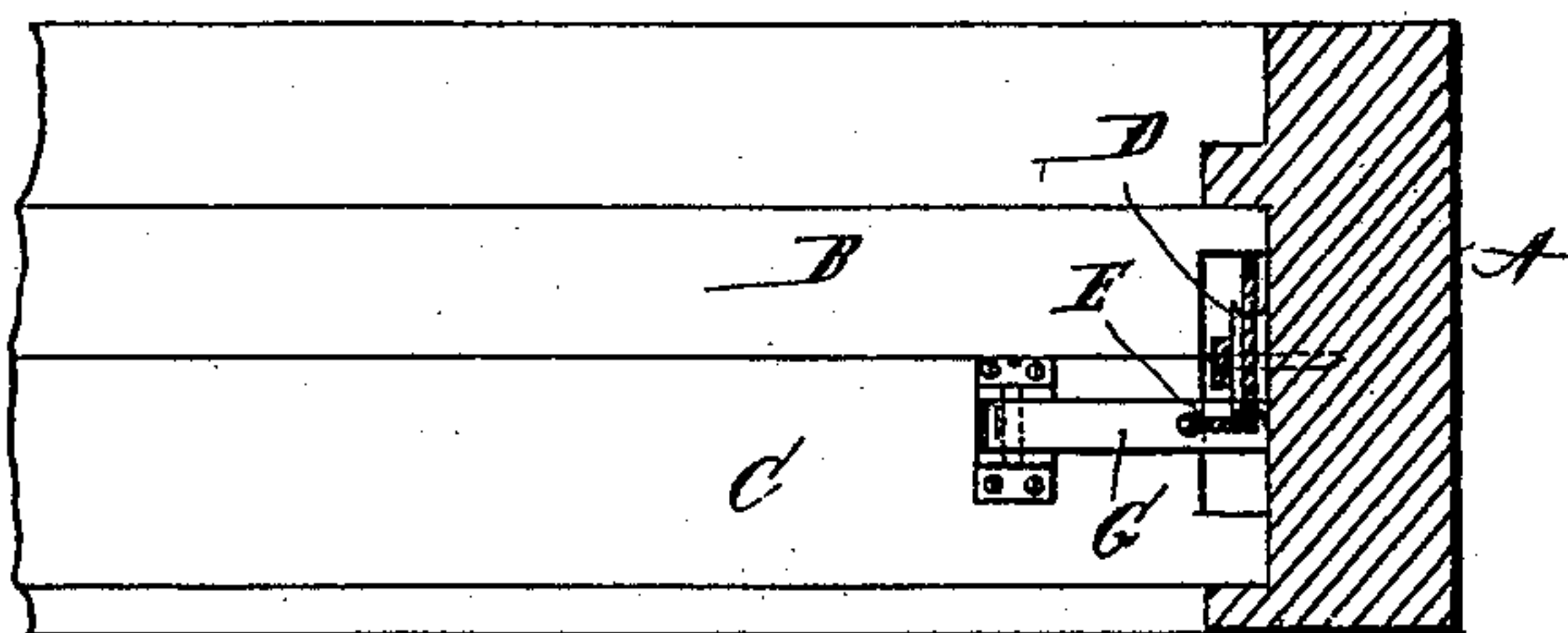


FIG. 3.



WITNESSES:

John Buckler,  
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INVENTOR

Jacob Oefinger,  
BY  
Edgar Tate & Co.  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JACOB OEFINGER, OF MERIDEN, CONNECTICUT.

## SASH-BALANCE.

SPECIFICATION forming part of Letters Patent No. 581,130, dated April 20, 1897.

Application filed January 14, 1896. Serial No. 575,426. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB OEFINGER, a citizen of the United States, and a resident of Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Sash-Balances, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which  
10 similar letters of reference indicate corresponding parts.

This invention relates to supports and locking devices for window-sashes; and the object thereof is to provide an improvement in this  
15 class of devices by means of which counter-balance-weights are dispensed with; and with this and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described  
20 and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a front view of a portion of a  
25 window-frame, showing also the upper and lower sashes mounted thereon with my improvement connected therewith; Fig. 2, a vertical section thereof, and Fig. 3 a section on the line 3 3 of Fig. 2.

30 In the drawings forming part of this application, A represents a window-frame or a portion thereof, and B and C the upper and lower sashes mounted therein, and in the practice of my invention I secure to the upper inner  
35 surface of one of the sides of the window-frame A a pulley D, which is mounted in a frame *d* and over which is passed a cord or chain E, one end of which is secured to the upper portion of the upper sash, as shown at  
40 F, and the lower end of which is carried downwardly and passes through a lever or arm G, which is pivotally connected with the upper part of the lower sash at *g* by means of a plate  
45 *g*<sup>2</sup>, which is provided with standards on its upper surface, with which said lever or arm is pivotally connected. Formed in the lower sash adjacent to said arm or lever G is a chamber or cavity H, and the outer end of said arm or lever is curved downwardly and outwardly,  
50 as shown at *g*<sup>2</sup>, and the operation will be readily understood from the foregoing description

when taken in connection with the accompanying drawings. Whenever it is desired to raise the lower sash and lower the upper one, it is only necessary to depress the outer end  
55 of the lever or arm G and then raise the lower sash, when the upper one will be lowered, as will be readily understood, said upper sash being supported only by the chain or cord E, which is connected with the arm or lever G.  
60 When it is desired to again lower the lower sash and to raise the upper one, the outer end of the arm or lever G is depressed and held in the depressed position while the lower sash is pulled down, and this operation will also  
65 raise the upper sash, as will be readily understood.

With this construction it will be apparent that the upper sash cannot be lowered from the outside because of the connection of the  
70 cord or chain E with the arm or lever G, which operates in connection with the frame of the window, and the lower sash cannot be raised without first manipulating the arm or lever G for the same reason, and in order to raise or  
75 lower either sash the arm or lever G must first be manipulated as hereinbefore described. I also secure to the lower portion of the upper sash a plate K, the lower edge of which is provided with teeth or serrations *k*, and the  
80 object of this plate is to prevent an attempt from the outside to interfere with the operation of the lever or arm G, when the upper sash is partially lowered, by inserting the hand or arm between said sashes.  
85

It will thus be seen that I provide an effective lock and support for the sashes of a window and one which is comparatively inexpensive and which is well adapted to accomplish the result for which it is intended, and it is  
90 evident that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages, and I therefore reserve the right to make all such  
95 alterations therein and modifications thereof as fairly come within the scope of the invention.

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

The combination with a window-frame, and



the upper and lower sashes mounted therein,  
of a pulley connected with the frame adjacent  
to the upper portion of the upper sash, a cord  
or chain one end of which is passed over said  
5 pulley, and secured to the upper sash and the  
other end of which is passed through or con-  
nected with an arm or lever, one end of which  
is pivotally connected with the lower sash,  
and the other end of which is adapted to bear  
10 upon the frame adjacent thereto, and the  
lower sash adjacent to said lever being pro-

vided with a cavity or recess, substantially  
as shown and described.

In testimony that I claim the foregoing as  
my invention I have signed my name, in pres- 15  
ence of the subscribing witnesses, this 27th  
day of December, 1895.

JACOB OEFINGER.

Witnesses:

GEO. C. STOETER,  
JOHN LYNN.