

(No Model.)

2 Sheets—Sheet 1.

W. F. SEXTON, Sr., & W. F. SEXTON, Jr.

DOOR BALANCE.

No. 285,365.

Patented Sept. 18, 1883.

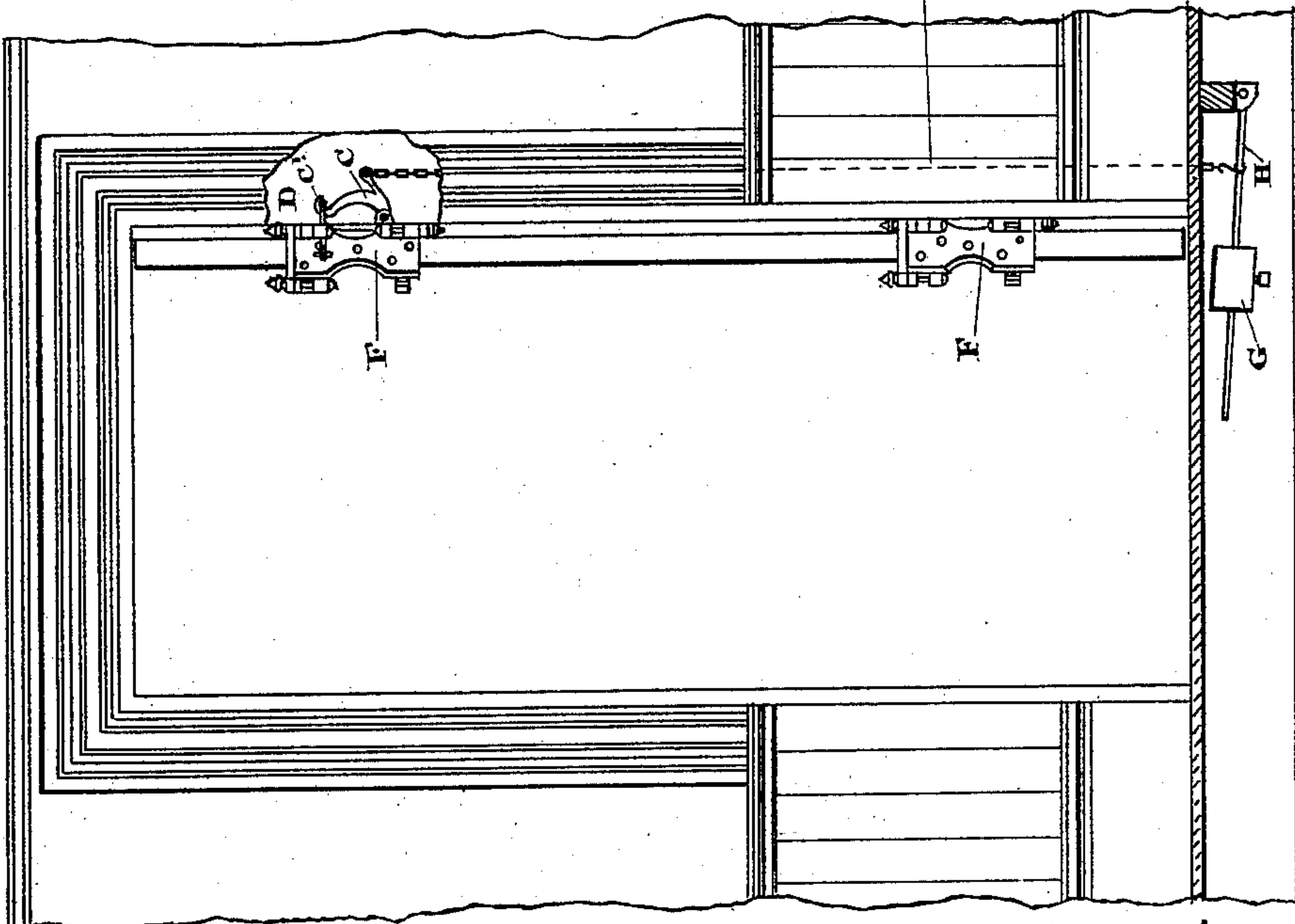


Fig. 2.

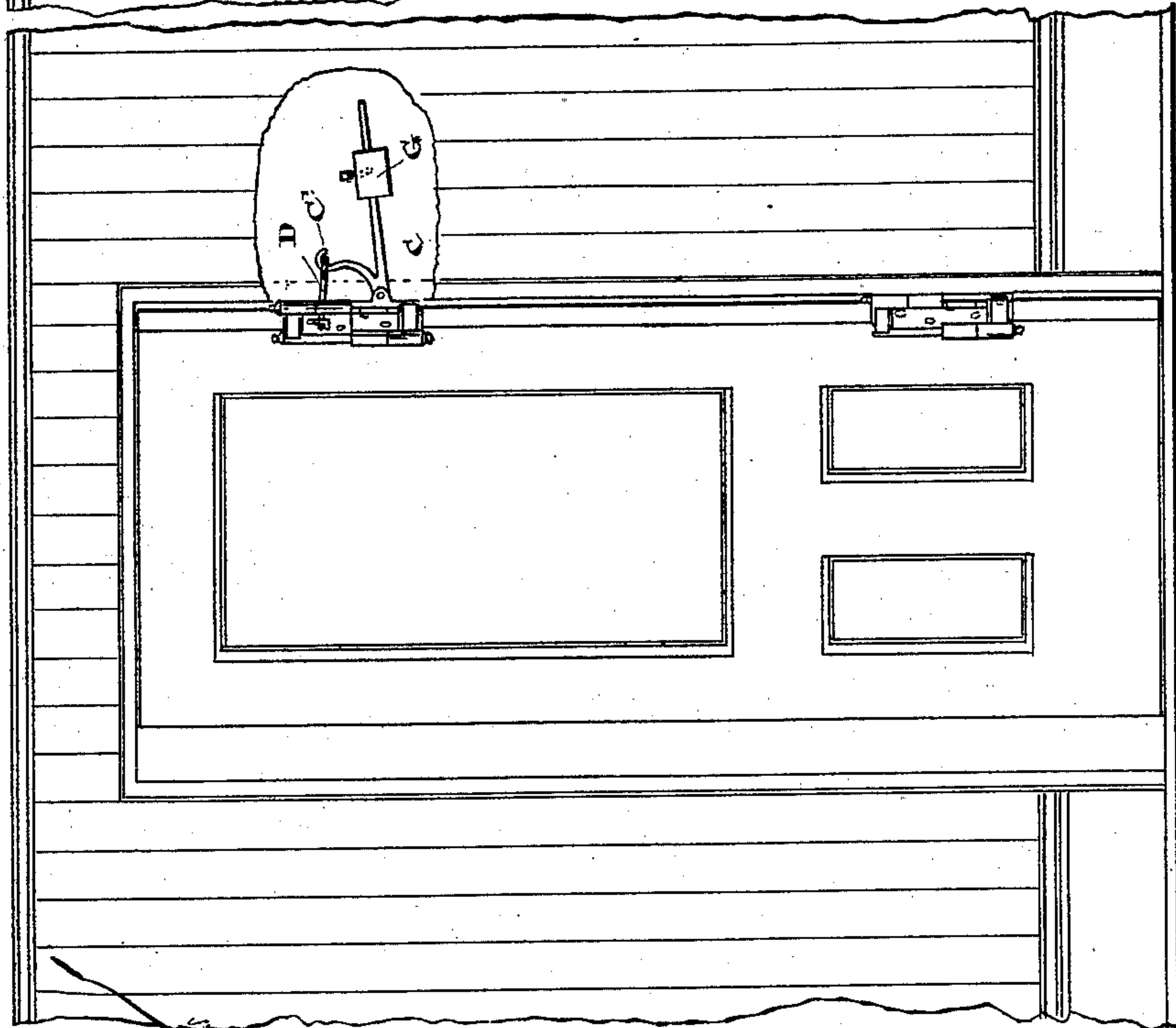


Fig. 1.

Witnesses.

Levi Tomlinson
J. B. Fetherstonhaugh

Inventor.

W. F. Sexton Sen^r
W. F. Sexton Jun^r
by *Donald C. Ridout H^o*
Att^y

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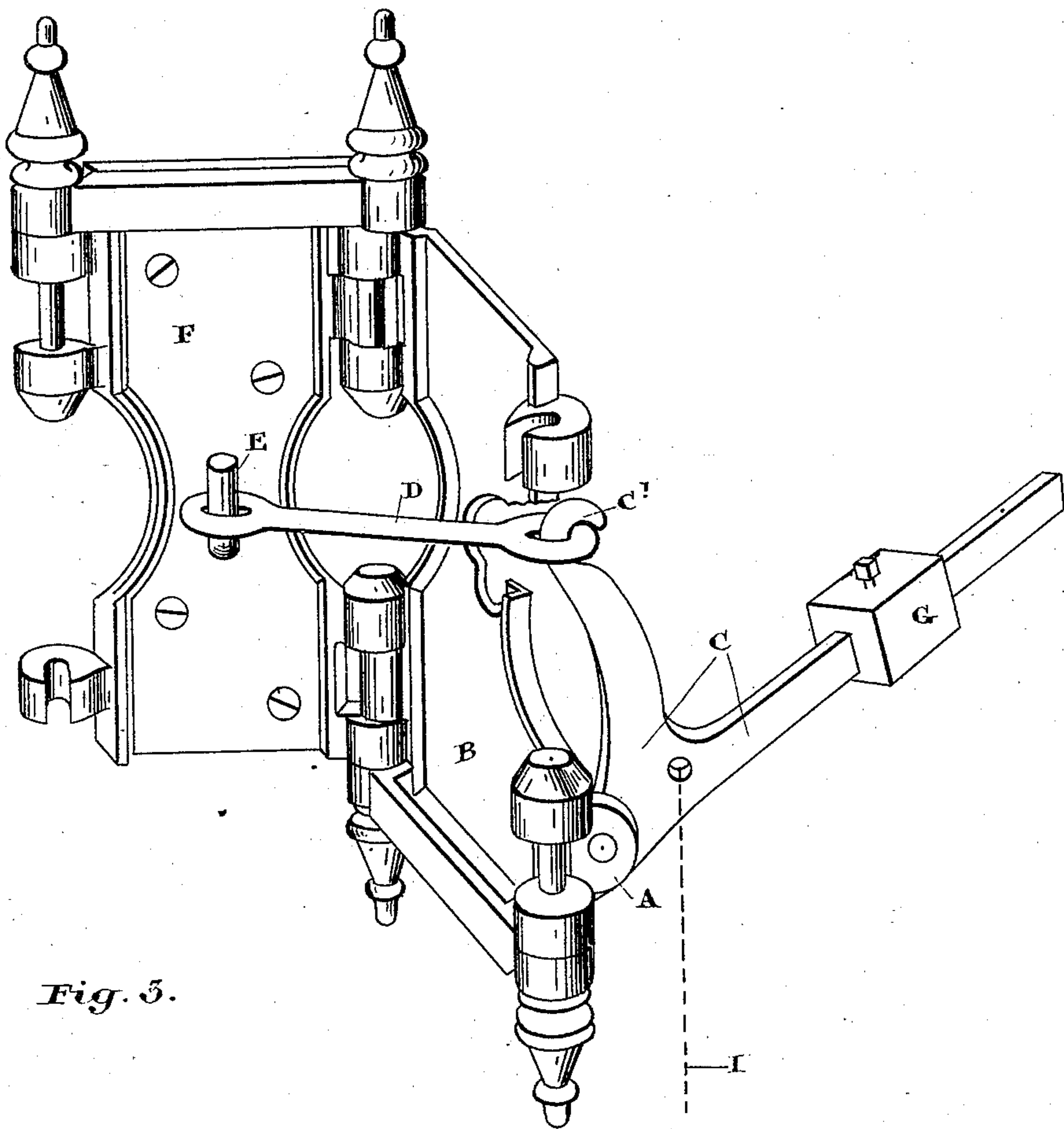
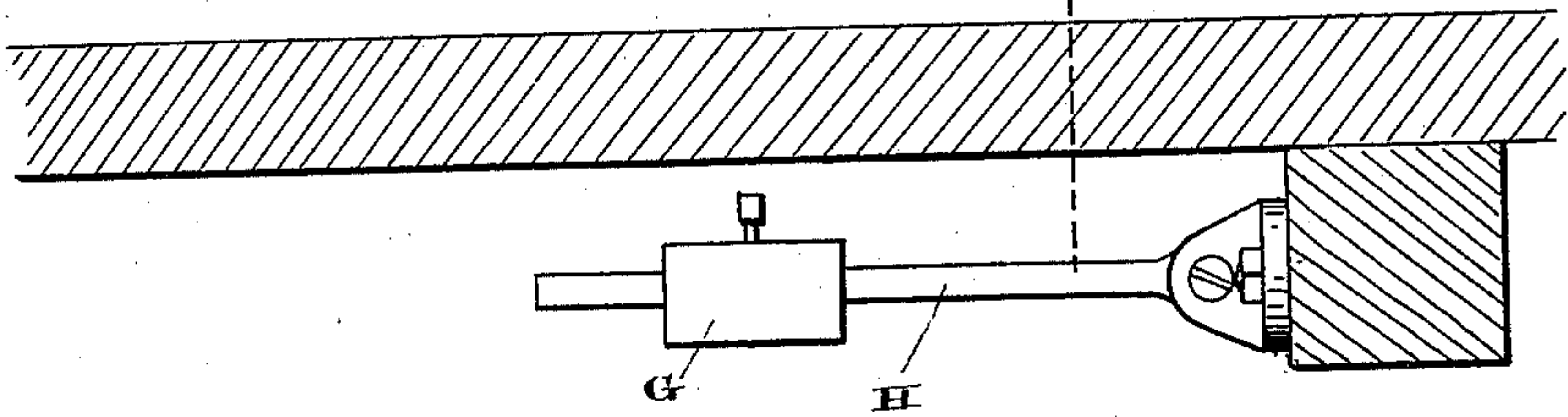


Fig. 3.



Witnesses.

Lewis Lamberton

L. B. Fetherstonhaugh

Inventor.

W. F. Sexton, Sr.

W. F. Sexton, Jr.

by Donald H. Ridoutt
Att'y

UNITED STATES PATENT OFFICE.

WILLIAM F. SEXTON, SR., AND WILLIAM F. SEXTON, JR., OF TORONTO,
ONTARIO, CANADA.

DOOR-BALANCE.

SPECIFICATION forming part of Letters Patent No. 285,365, dated September 18, 1883.

Application filed April 27, 1883. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM FRANCIS SEXTON, Sr., and WILLIAM FRANCIS SEXTON, Jr., both of the city of Toronto, in the county of York, in the Province of Ontario, Canada, carpenters, have invented certain new and useful Improvements in a Door-Balance, of which the following is a specification.

The object of the invention is to devise a simple and effective door-balance; and it consists, essentially, in pivoting a bell-crank lever on one half of the door-hinge and connecting one arm of the bell-crank to the other half of the door-hinge by a rod or its equivalent, the said bell-crank being operated by an adjustable weight so arranged that the movement of the lever, caused by the weight, will draw the two halves of the hinge together, and thereby close the door hung upon the said hinge.

Figure 1 is a view of a door provided with our improved door-balance, in which the weight is attached directly upon the bell-crank lever. Fig. 2 is a similar view of a door, showing the weight fitted onto a pivoted lever situated below the door and connected to the bell-crank by a chain. Fig. 3 is an enlarged detail of our improved door-balance.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is a lug cast or otherwise formed upon the half of the hinge marked B. This lug forms a pivot-point for the bell-crank C, the short arm of which has a hooked end, C', over which the eye formed on the end of the rod D fits. The other end of the rod D has a similar eye, which fits over a hook, E, cast or otherwise formed on the half of the hinge marked F.

G is a weight adjustably fitted onto the long arm of the bell-crank C.

It will be seen that the adjustment of the weight G upon the arm of the bell-crank lever C will draw the half of the hinge marked F toward the other half of the hinge marked B with a power in proportion to the distance of the weight from the pivot-point of the lever C.

As it may not at all times be convenient to have the weight directly fitted onto the lower arm of the bell-crank C, an additional lever, H, may be applied. This lever is preferably pivoted below the floor, immediately under the lever C, so that two levers may be connected by a chain, I, as indicated. In such an application the weight G will be fitted onto the lever H, thereby allowing a great portion of one arm of the bell-crank C to be cut off.

We are aware of Patent No. 143,234 of 1873. Our invention is designed for a similar purpose, but seeks to obviate the expense and complication in such devices.

It will be observed that the two parts of the hinge are only modified by the lugs A and E, and that we only use a bell-crank lever, a weight, and a link; hence

What we claim as new is—

The hinge herein described, the part B, having pivot-lug A, and the part F, having lug E, combined with the bell-crank lever C, the adjustable weight G, and link D, all arranged and operating as set forth.

Toronto, 16th day of April, A. D. 1883.

W. F. SEXTON, SR.
W. F. SEXTON, JR.

In presence of—

CHAS. C. BALDWIN,
F. B. FETHERSTONHAUGH.