

(No Model.)

2 Sheets—Sheet 1.

W. DONOGHUE.
WARDROBE BEDSTEAD.

No. 273,480.

Patented Mar. 6, 1883.

FIG. 1

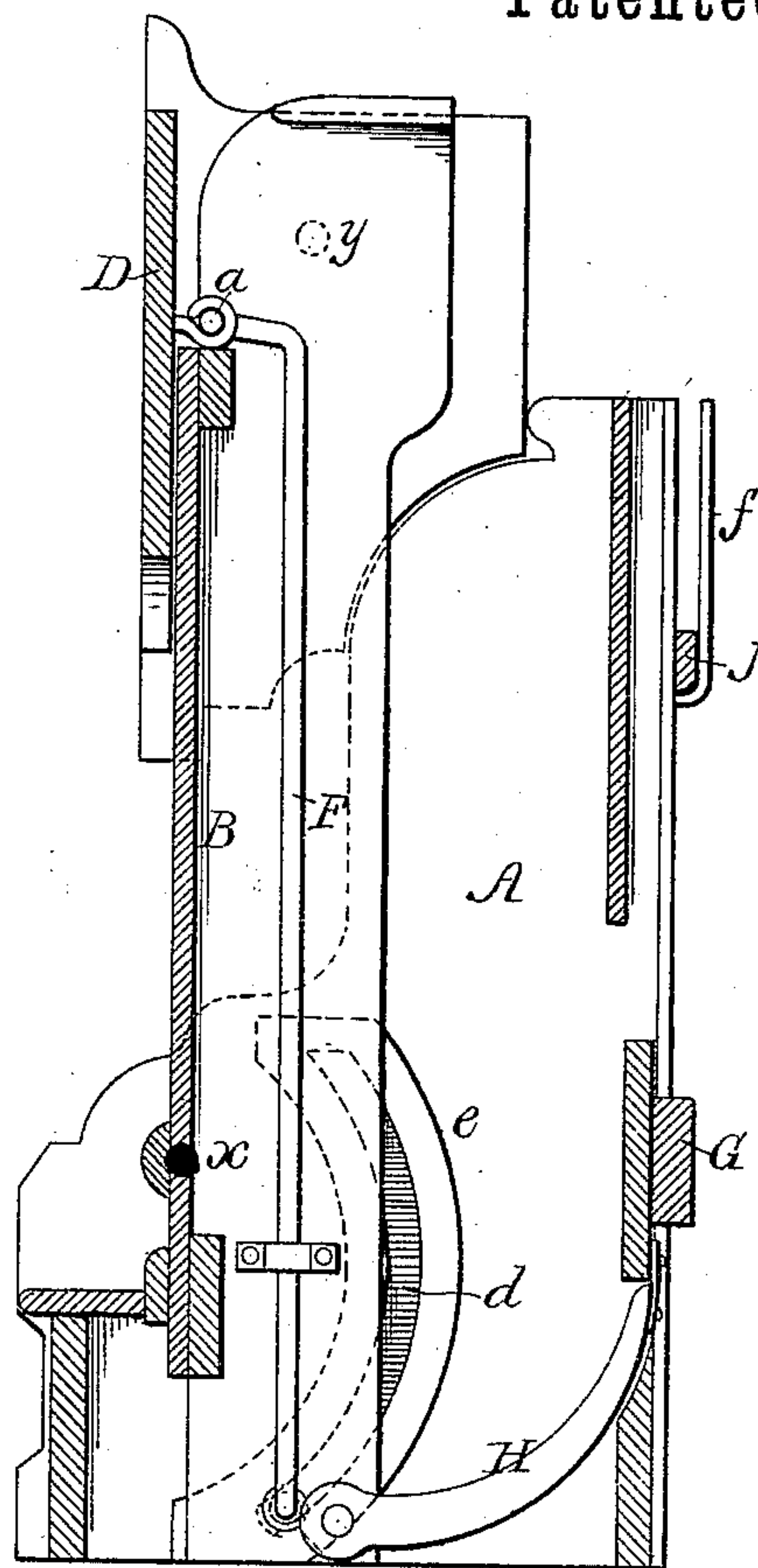
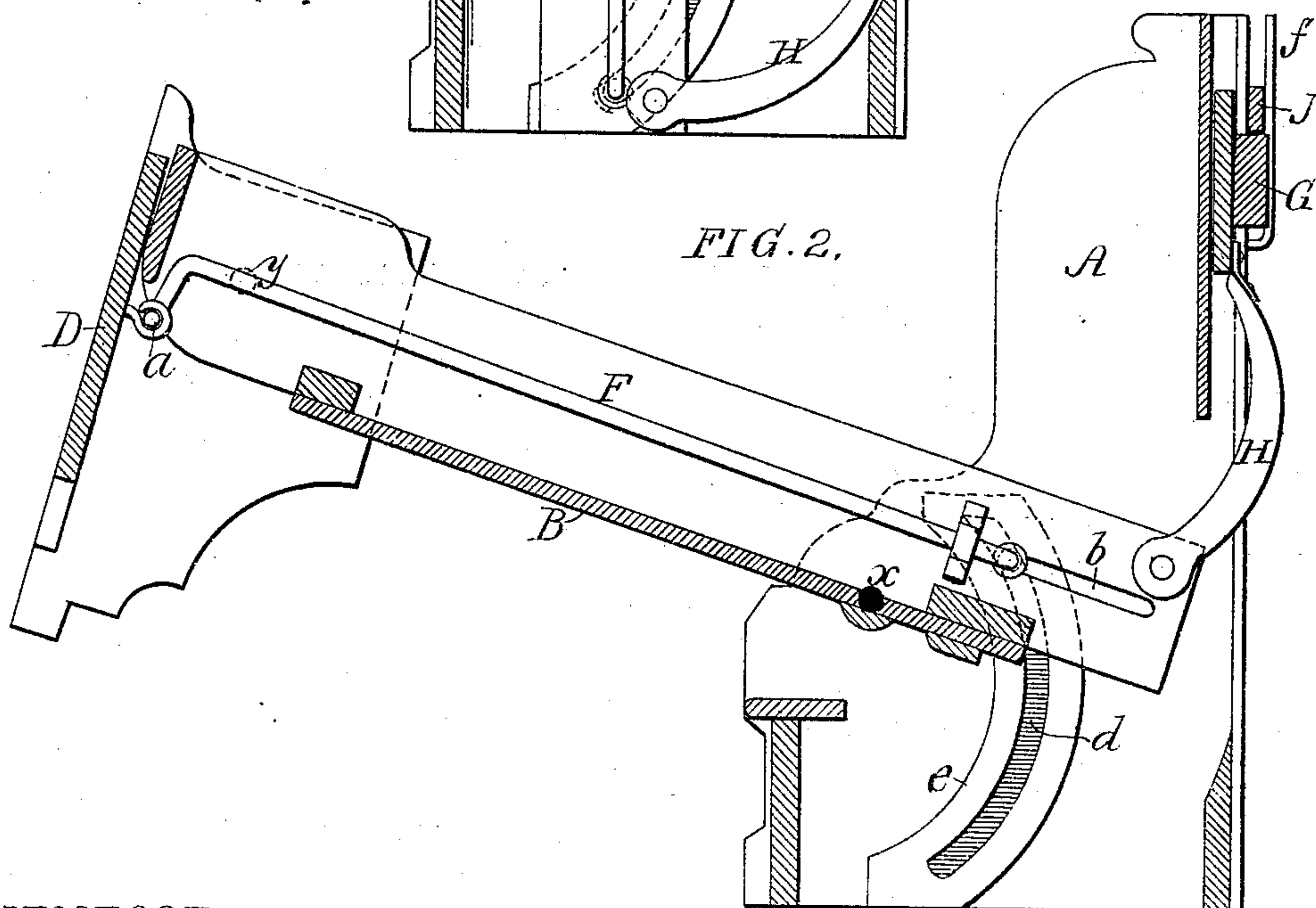


FIG. 2.



WITNESSES:

James F. Tobin
Hamilton D. Turner

INVENTOR:

William Donoghue
by his Attorneys
Howson and Jones

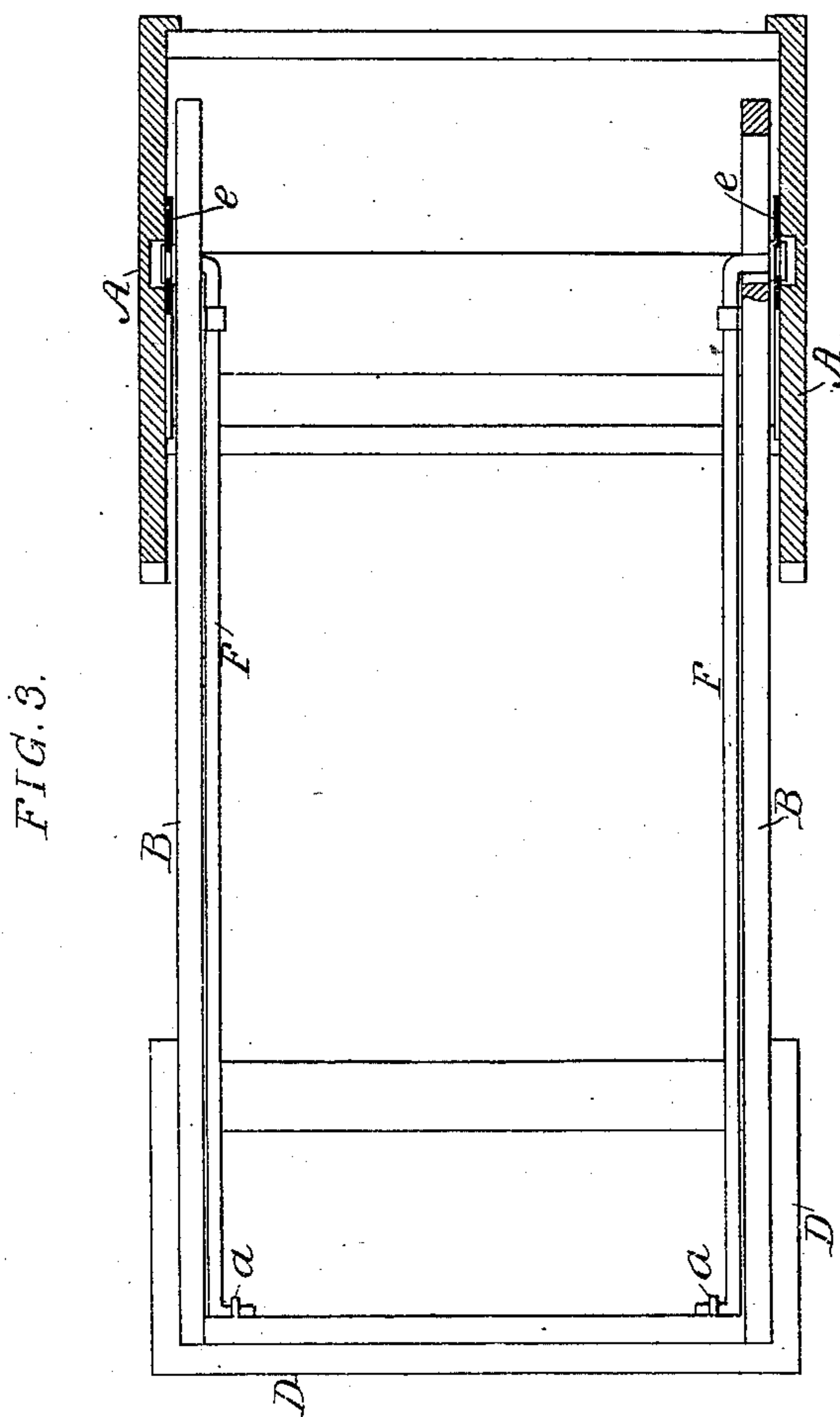
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UNITED STATES PATENT OFFICE.

WILLIAM DONOGHUE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
DAVID GARRISON AND GEORGE C. REUKAUFF, OF SAME PLACE.

WARDROBE-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 273,480, dated March 6, 1883.

Application filed December 7, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DONOGHUE, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Wardrobe-Bedsteads, of which the following is a specification.

My improvements relate to devices for automatically operating the pivoted foot-board as the movable frame of the bed is raised or lowered, and to means for counterbalancing said movable frame.

In the accompanying drawings, Figure 1, Sheet 1, is a longitudinal section of my improved wardrobe-bed in its closed condition; Fig. 2, a similar view, but with the movable frame lowered almost to its full extent; and Fig. 3, Sheet 2, a sectional plan view of the bed.

A is the fixed frame of the bed, B the movable frame, pivoted to the fixed frame at *x*, and D the foot-board, pivoted to the frame B at *y*, as usual in beds of this class. On each of the side rails of the frame B is guided a rod, F, one end of which is adapted to an eye, *a*, on the foot-board, the opposite end of the rod being bent outward, so as to project through a slot, *b*, in the side rail, and into a slot, *d*, in a plate, *e*, secured to the side of the fixed frame A. This slot *d* is eccentric in respect to the pivot *x* of the movable frame, so that as the latter is turned on its pivot a longitudinal movement will be imparted to the rod F, this movement being transmitted to the foot-board D, and the latter caused to turn on its pivot, so that it will occupy a vertical position, whether the frame B is in either the elevated or depressed position.

To vertical guides at the rear of the fixed frame A is adapted a counterbalance-weight, G, which is connected to the side rails of the movable frame B by curved arms H, the latter being hinged to the side rails and to the weight. As the movable frame B is drawn downward the counterbalance-weight must be raised, and it thus tends to prevent the rapid descent of the frame, while on elevating the frame the weight facilitates the operation by the lifting tendency which it exerts on the frame. In order to still further check the speed of the descent of the frame as the foot-board nears the floor, and to exert an additional lifting force at the commencement of the elevating movement, I provide a supplementary balance-weight, J, adapted to guides *f* on the frame A. As the

frame B reaches the limit of its downward movement the weight G comes into contact with the weight J and lifts the same, so as to exercise an increased retarding influence on the descent of the frame, a correspondingly-increased lifting influence being exerted on the elevation of the frame until the weight J reaches the bottom of the guides in which it rests. The increased retarding and lifting influence is thus exerted at the points where it is most needed—that is to say, when the frame B is approaching or leaving the horizontal position.

It will be noted that owing to the arms H the force of the weight G is exerted most advantageously at the commencement of the lift of the frame B, the angle of the arm becoming greater and greater as the frame is raised, so that during the latter portion of its movement the weight exerts very little power, and the frame B is prevented from coming into forcible contact with the fixed frame A.

I have shown two rods F and two plates *e* in the drawings, but in some cases one rod and one plate may be found sufficient.

I claim as my invention—

1. The combination of the fixed frame A, pivoted frame B, and pivoted foot-board D of a wardrobe-bedstead with a rod, F, guided on the frame B and connected at one end to the foot-board, and a slotted cam-plate, *e*, adapted to act upon the opposite end of the rod, as set forth.

2. The combination of the frame B and the pivoted foot-board D, having an eye, *a*, with the guided rod F, having an end adapted to said eye, as set forth.

3. The combination of the fixed frame A, the pivoted frame B, the counterbalance-weight G, and the supplementary counterbalance-weight J, as set forth.

4. The combination of the fixed frame A and the head-board secured thereto, the weight G, guided vertically in the rear of the head-board, the pivoted frame B, and the curved or bent arms H, pivoted to the frame B and weight G, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM DONOGHUE.

Witnesses:

HARRY DRURY,
HARRY SMITH.