

(No Model.)

2 Sheets—Sheet 1.

E. N. DORING.
FOLDING WARDROBE BED.

No. 246,097.

Patented Aug. 23, 1881.

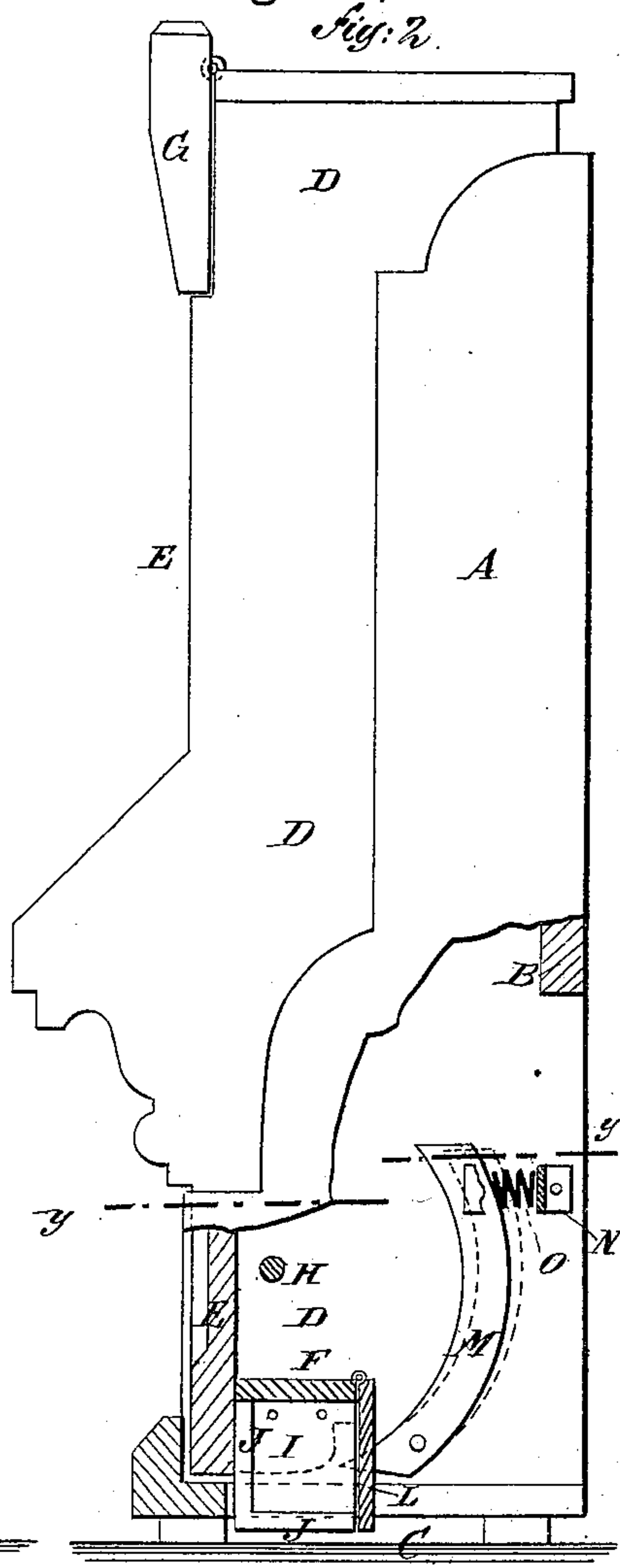
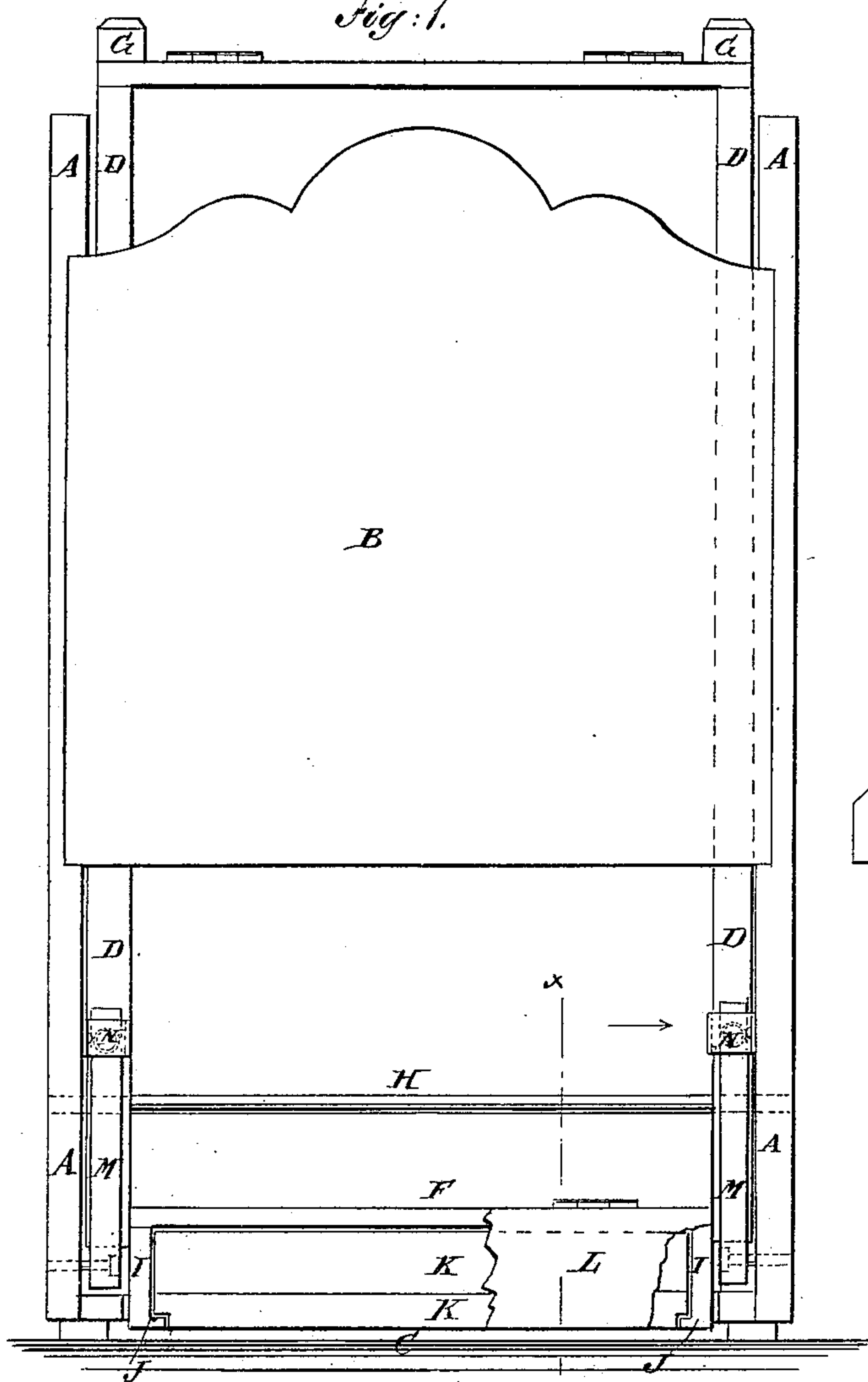
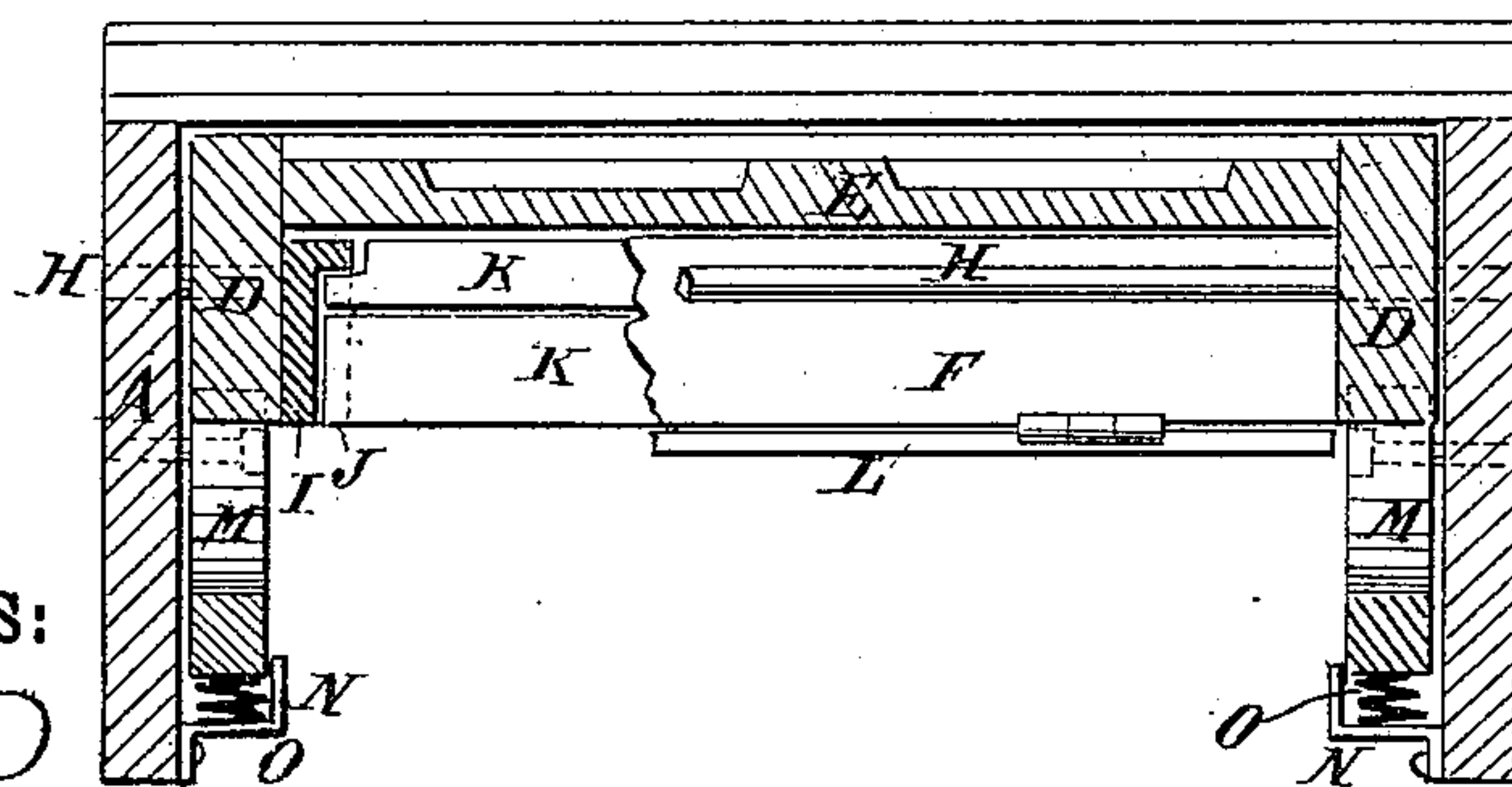


Fig: 3.



WITNESSES:

Chas. Nida.
C. Sedgwick

INVENTOR:

E. N. Doring
BY *Mum & Co*
ATTORNEYS.

(No Model.)

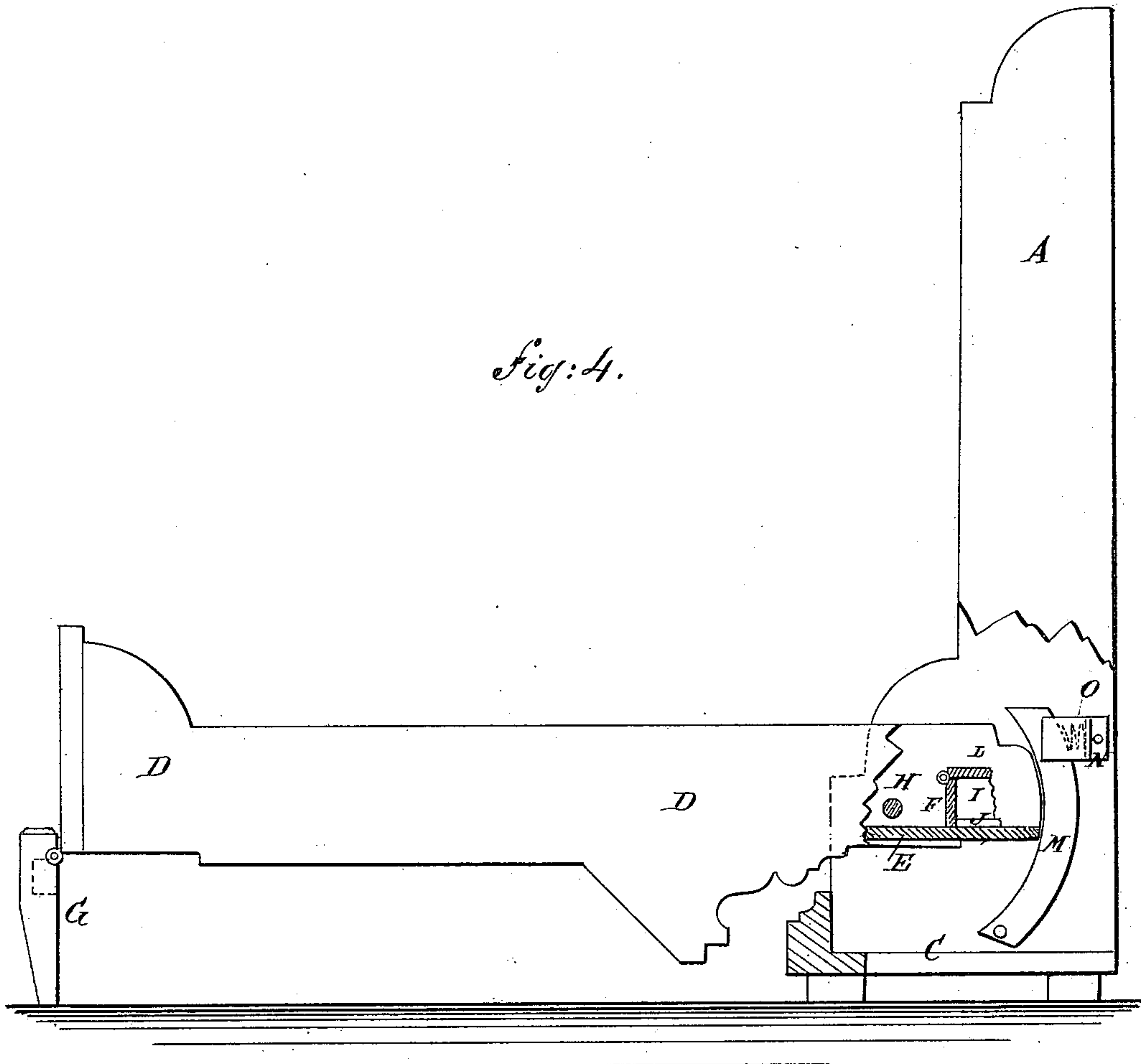
2 Sheets—Sheet 2.

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Fig: 4.



WITNESSES:

Charles Vida
C. Sedgwick

INVENTOR:

E. N. Doring
BY *Miner Ho*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

ERNEST N. DORING, OF NEW YORK, N. Y.

FOLDING WARDROBE-BED.

SPECIFICATION forming part of Letters Patent No. 246,097, dated August 23, 1881.

Application filed December 11, 1880. (No model.)

To all whom it may concern:

Be it known that I, ERNEST N. DORING, of the city, county, and State of New York, have invented a new and useful Improvement in Folding Wardrobe-Beds, of which the following is a specification.

Figure 1 is a rear elevation of the improvement. Fig. 2 is a side elevation, partly in section through the line *xx*, Fig. 1. Fig. 3 is a sectional plan view taken through the line *yy*, Fig. 2. Fig. 4 is a side elevation, partly in section, of the bed lowered.

The object of this invention is to furnish folding wardrobe-beds so constructed that they will require less weight than heretofore to balance and keep them in place.

The invention consists in the combination, with the head-boards and side boards, of curved friction-bars pivoted at their lower ends and having their upper ends pressed forward by springs, whereby the pressure of the springs and curved bars against the ends of the side boards will assist to keep the side boards in any desired position.

The invention further consists in the combination, with the ends of the side boards, of flanged plates to receive and carry the weight-bars that balance the bed, as will be hereinafter more fully described.

Similar letters of reference indicate corresponding parts.

A represents the side boards, B the back, and C the bottom of the outer or stationary part, of a folding wardrobe-bed.

D represents the side rails, E the front or bottom boards, and F the cross-board of the inner folding or movable part, of the bed.

G are the hinged legs, that support the foot of the bed when turned down; and H is the rod that pivots the folding and stationary parts to each other, and which passes through the side boards and side rails, A D, of the said parts.

To the inner sides of the ends of the side rails, D, are attached plates I, of metal or other suitable material, which have flanges J formed upon the inner sides of their lower and outer edges, to receive the ends of the metal weight bars or plates K, which, in connection with the bottom boards and the cross-board F of the said movable part of the bed, form a box to receive the metal weight blocks or bricks that form the additional weight, when

required, for balancing the bed, and which are covered by the pillow-board L, hinged to the edge of the cross-board F.

The lower ends of the side rails, D, are rounded off in the arcs of circles having their centers in the pivoting-rod H, to bear against the friction-bars M, which are curved in the arcs of circles. The friction-bars M are pivoted at their lower ends to the side boards, A, and their upper ends rest in keepers N, attached to the said side boards, A, in such positions that when the said upper ends are pushed back into the said keepers the inner sides of the said curved bars M will be in the arcs of circles having their centers in the pivoting-rod H.

The upper ends of the curved bars M are held forward by spiral or other suitable springs, O, interposed between them and the keepers N.

With this construction, when the folding part of the bed begins to move downward in being lowered the friction between the rounded ends of the side rails, D, and the curved bars M is at first slight, but gradually increases as the said part approaches a horizontal position, so that should the operator accidentally release the said part of the bed at any point it will remain in place. When the movable part of the bed is being raised the friction against the curved bars M gradually decreases as the said part approaches a vertical position.

With this construction much less weight will be required to balance the bed than when the friction-bars are not used.

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

1. In a folding wardrobe-bed, the combination, with the side boards, A, and the side rails, D, of the friction-bars M and the springs O, substantially as herein shown and described, and for the purpose set forth.

2. In a folding wardrobe-bed, the combination, with the side rails, D, of the flanged plates I J, substantially as herein shown and described, to receive and carry the weight bars or plates, as set forth.

ERNEST N. DORING.

Witnesses:

JAMES T. GRAHAM,
C. SEDGWICK.