

(No Model.)

2 Sheets—Sheet 1.

F. B. WILLIAMS.
WARDROBE BEDSTEAD.

No. 376,126.

Patented Jan. 10, 1888.

Fig. 3.

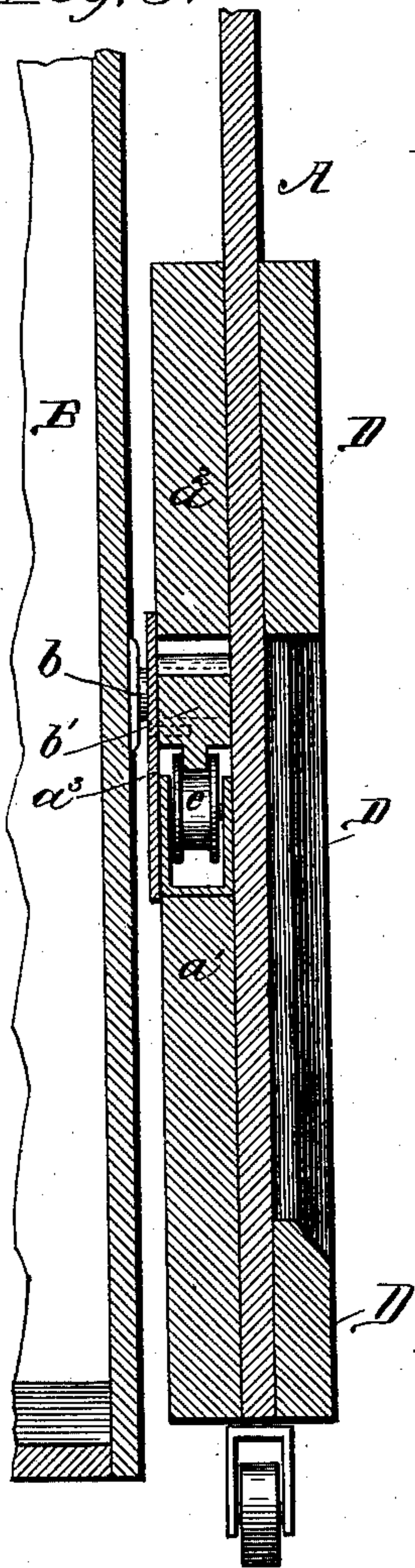


Fig. 1.

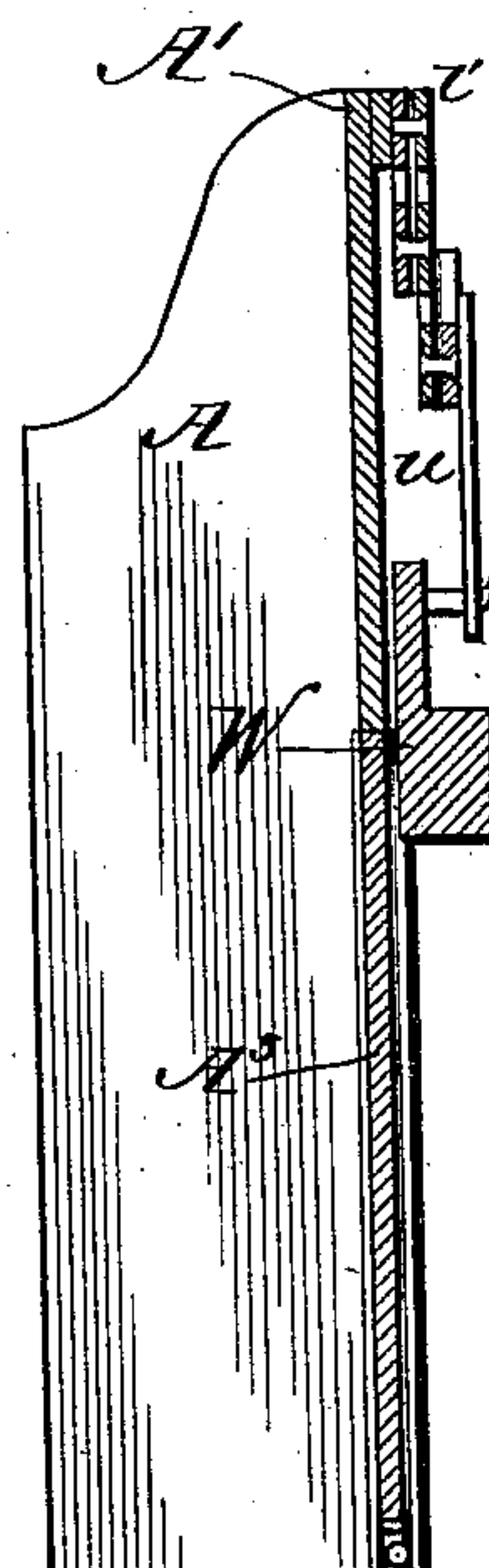
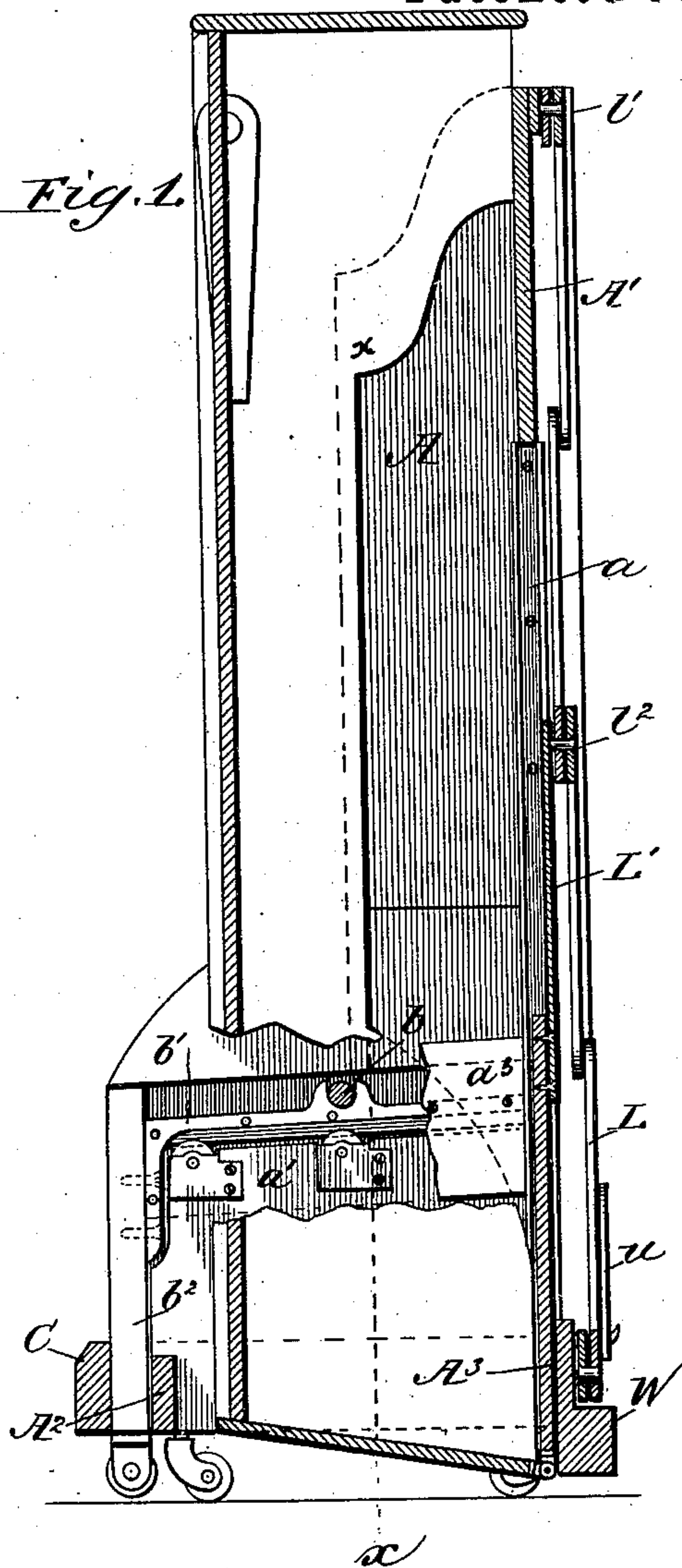
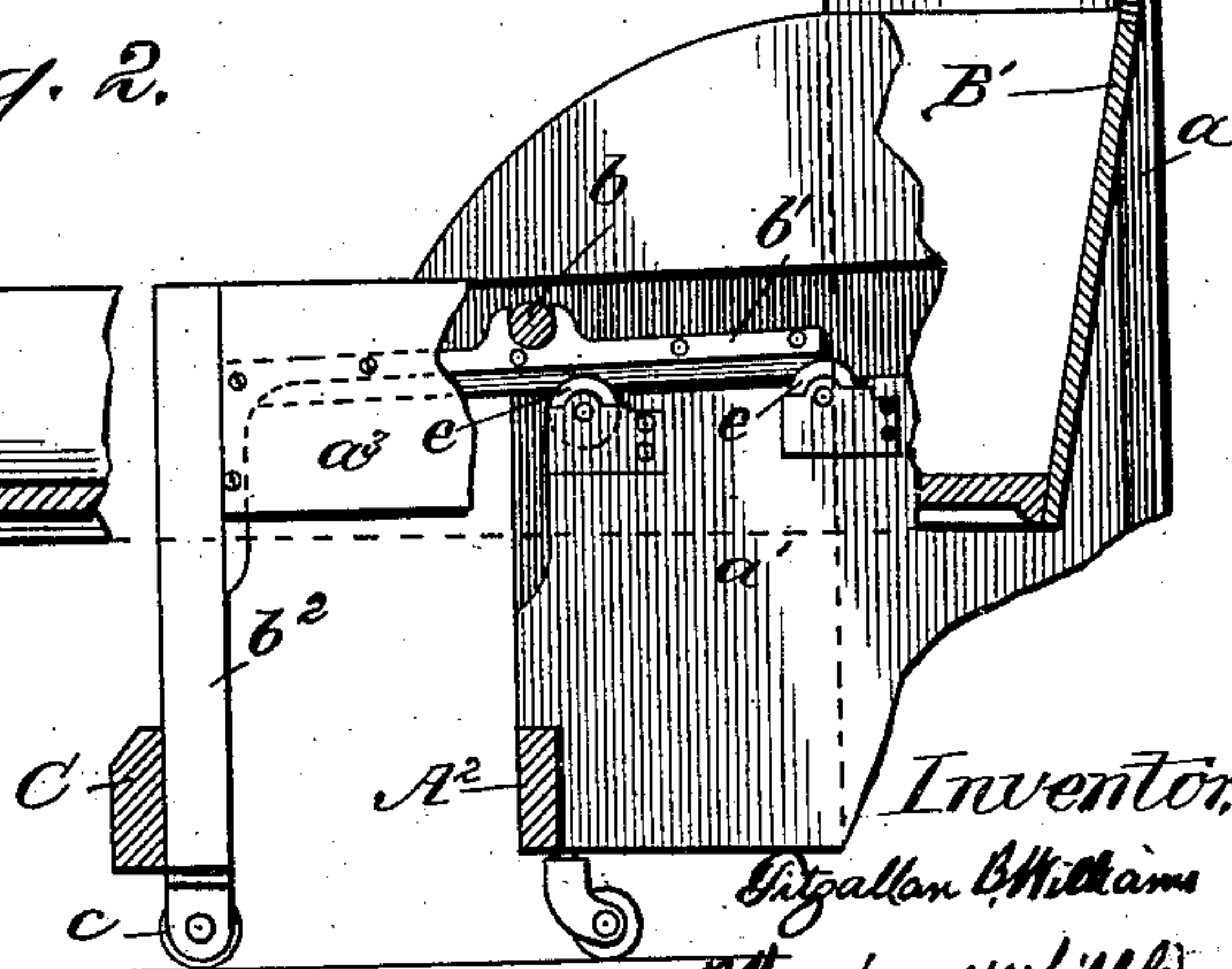
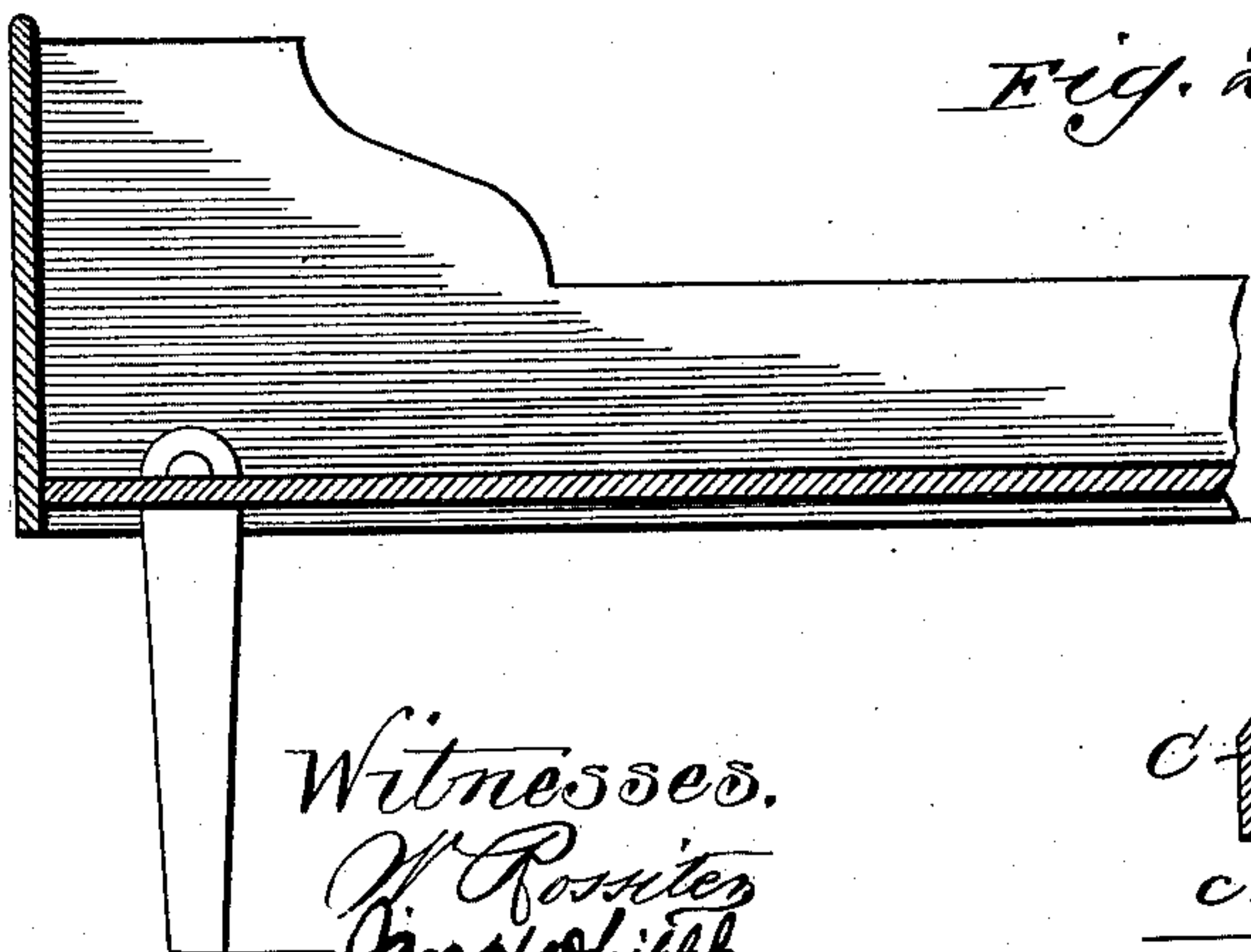


Fig. 2.



Witnesses.
W. Rositer
J. M. H. Whipple

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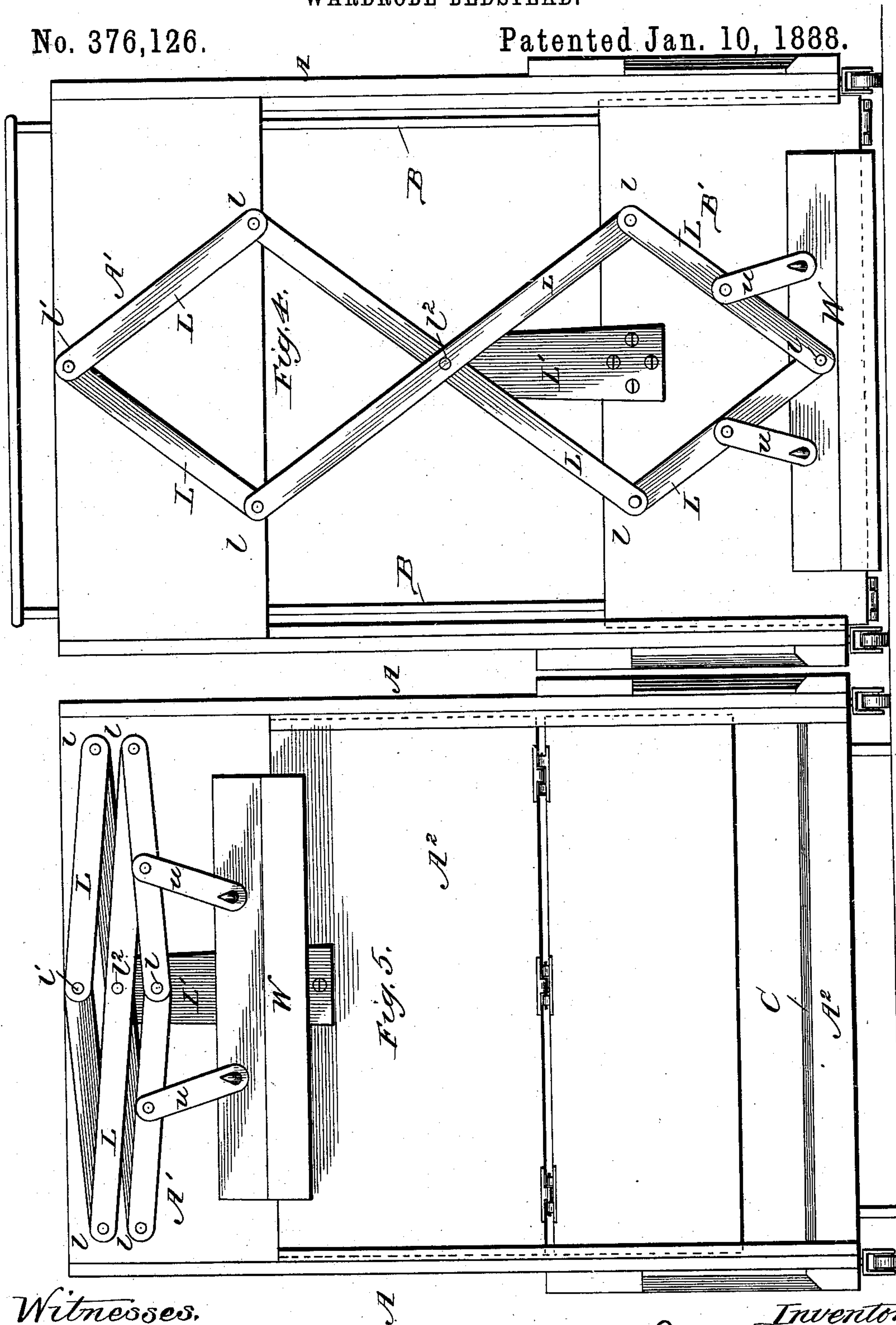
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

FITZALLAN B. WILLIAMS, OF CHICAGO, ILLINOIS.

WARDROBE-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 376,126, dated January 10, 1888.

Application filed August 9, 1886. Serial No. 210,400. (No model.)

To all whom it may concern:

Be it known that I, FITZALLAN B. WILLIAMS, of Chicago, in the State of Illinois, have invented certain new and useful Improvements in Wardrobe-Bedsteads, of which the following is a specification.

My invention relates to improvements in wardrobe-bedsteads containing a stationary upright frame, in combination with a folding frame pivoted thereto and counterbalanced by a weight; and the objects of the improvements are, first, to provide means for shifting the pivotal connection between the frames during the operation of opening and closing the same, and, second, to provide a lever-connection between the weight and frames so arranged as to lessen the amount of weight required to counterbalance the folding frame. I attain these objects by means of the mechanism illustrated in the accompanying drawings, of which—

Figure 1 is a vertical section, the bed being folded, parts being broken away. Fig. 2 is a similar section, the bed being open. Fig. 3 is an enlarged detail section taken on line *xx* of Fig. 1. Fig. 4 is a rear elevation, the bed being folded. Fig. 5 is a rear elevation, the bed being open.

A designates the uprights of the frame, which are held together at the top, in the rear, by the upper portion, *A'*, of the head-board, permanently attached to the uprights, and at the bottom, in front, by a cross-piece, *A''*. A groove, *a*, at the rear of the upright extends down from the upper portion of the head-board to the bottom of the uprights.

B is the folding frame, which is of ordinary construction. It is connected with the upright frame by trunnions *b*, which rest on sliding or movable trunnion plates or carriages *b'*, supported on the upright frame. The trunnion-plates are provided with supplemental supports, *b''*, at the front end, which extend down and have wheels or casters *c* at the bottom. These supplemental supports should be connected together by a cross-piece, C, extending across from one side of the bed to the other and uniting them for the purpose of giving them lateral support. They should also fit against the edge of the uprights at the base projection, so as to cover it and form an ornamental finish

with the moldings D or other trimmings. The trunnion-plates are supported by cleats or boards, as *a'*, attached to the uprights, and preferably on anti-friction rollers or pulleys *e*. For the purpose of forming a finish over the trunnion-plates, I attach boards or cleats *a''* to the uprights above the trunnion-plates and cover the open space between these boards and the boards *a'* with thin pieces *a'''*, which are attached to the edge of the trunnion-plates by means of screws.

The lower portion, *A'''*, of the head-board is hinged to the head end rail, *B'*, of the folding frame, and has its edges fitted into the grooves *a* of the uprights, and it slides up and down, as the bed is opened and closed, without any lateral movement, the trunnion-plates shifting back and forth and carrying the trunnions back and forth, so as to maintain the hinged connection between the sliding head-board and end rail of the folding frame in a vertical position during its movement up and down and without a tendency to move laterally in the slot *a* to cause binding or cramping of the parts.

The supports of the trunnion-plates are preferably arranged on a slight incline from the rear downward toward the front and the supplemental supports just clear of the floor when the bed is closed, as seen in Fig. 1, so that as the trunnion moves outward during the operation of unfolding the wheels *c* will strike the floor when the bed is about half open and remain on the floor and support the outer end of the plates during the rest of the operation and until the bed reaches the same position in the operation of closing. By the use of sliding or movable trunnion-plates thus arranged with supplemental supports at the front or outer ends the base of the bedstead, which rests on the floor when the bed is folded, may be made much narrower from front to rear than it could otherwise be without being liable to tip over when the bed is being opened.

The weight *w* is suspended by two links, *u*, to a system of levers, L, which levers are pivoted together at their ends *l*, and also pivoted to a stationary part of the head-board, as at *l'*, near the top, and to a piece, *L'*, attached to the sliding portion of the head-board, as at *l''*. These levers are preferably made of flat bars

of iron, so that they may be made light and will not take up much space laterally.

Fig. 4 shows the position of the levers when the bed is closed, the weight then being at the bottom, and Fig. 5 shows the position of the levers and weight when the bed is open. The weight thus may be made to move twice or more than twice the distance through which the head-board moves in the opening and closing, and consequently a very small weight added to the weight of the head-board itself with this advantage of leverage is sufficient to counterbalance the folding frame, so as to require only slight lifting to open or close the bed.

Having thus fully described my invention, what I claim is—

1. The combination, with the upright frame provided with sliding trunnion-plates having an independent support which is adapted to

come in contact with the floor in operation, of the folding frame provided with trunnions supported on such trunnion-plates and adapted to move the trunnion-plates out and in on the upright frame by the opening and closing of the folding frame, substantially as specified.

2. In a wardrobe-bedstead, the upright frame, in combination with the folding frame and sliding head-board hinged thereto and sliding on the upright frame, and the system of lazy-tongs composed of levers L, pivoted to a stationary part of the head-board and to an upright piece on the sliding head-board, and having the counterpoise-weight suspended thereon, substantially as specified.

FITZALLAN B. WILLIAMS.

Witnesses:

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J. R. DEAN.