

No. 702,692.

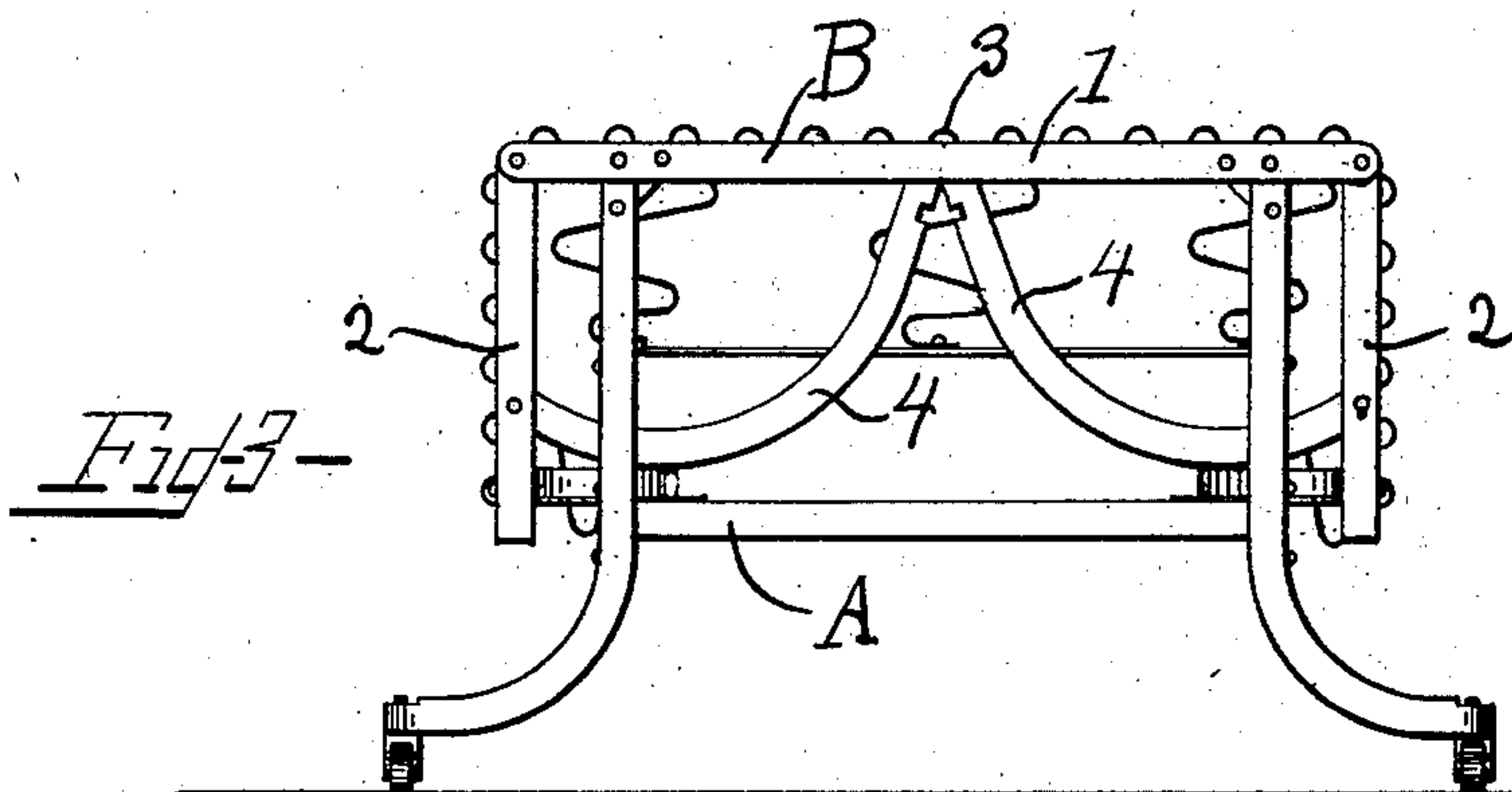
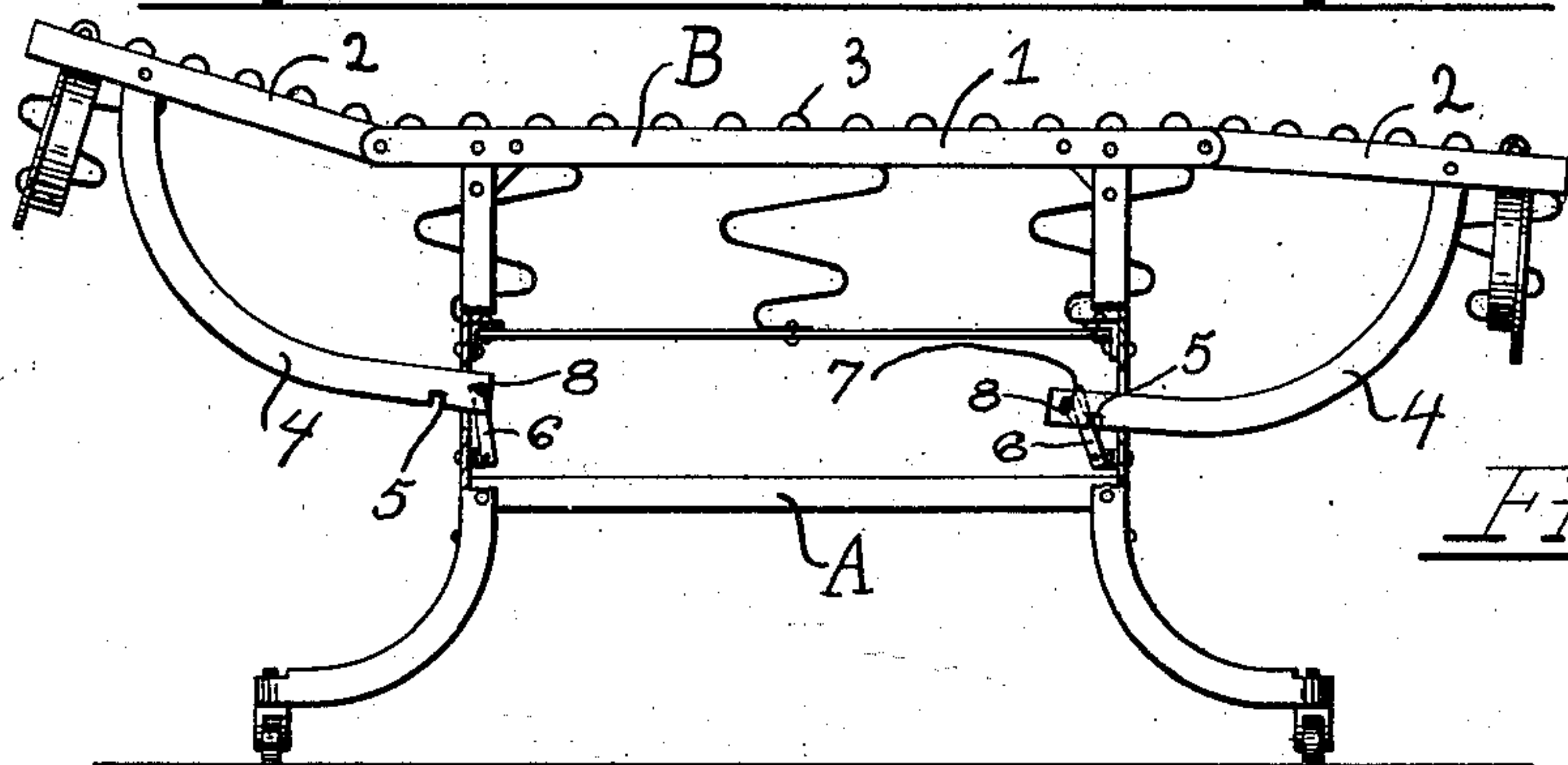
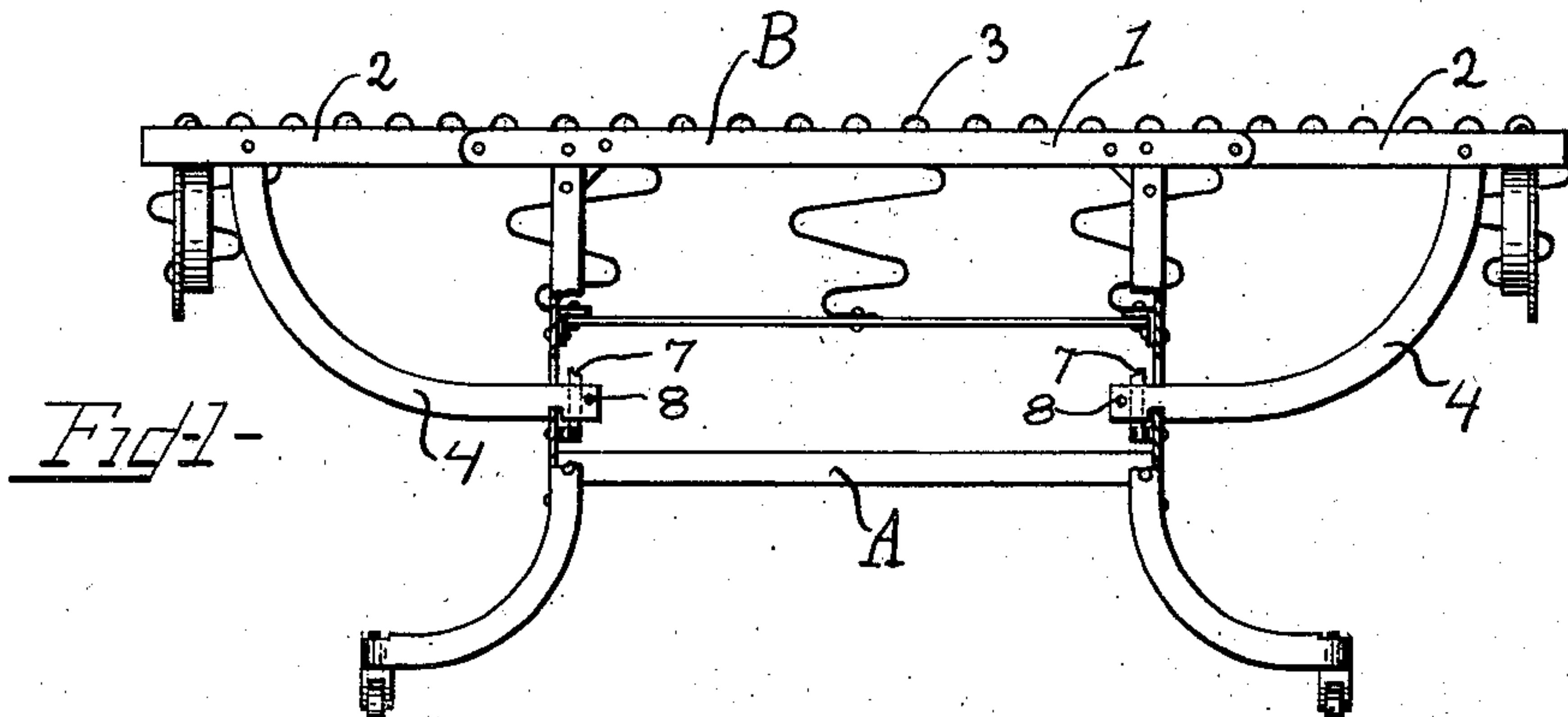
Patented June 17, 1902.

L. N. BACHAND.  
BED.

(Application filed Mar. 1, 1901.)

(No Model.)

3 Sheets—Sheet 1.



Witnesses —

Milton M. Alexander.  
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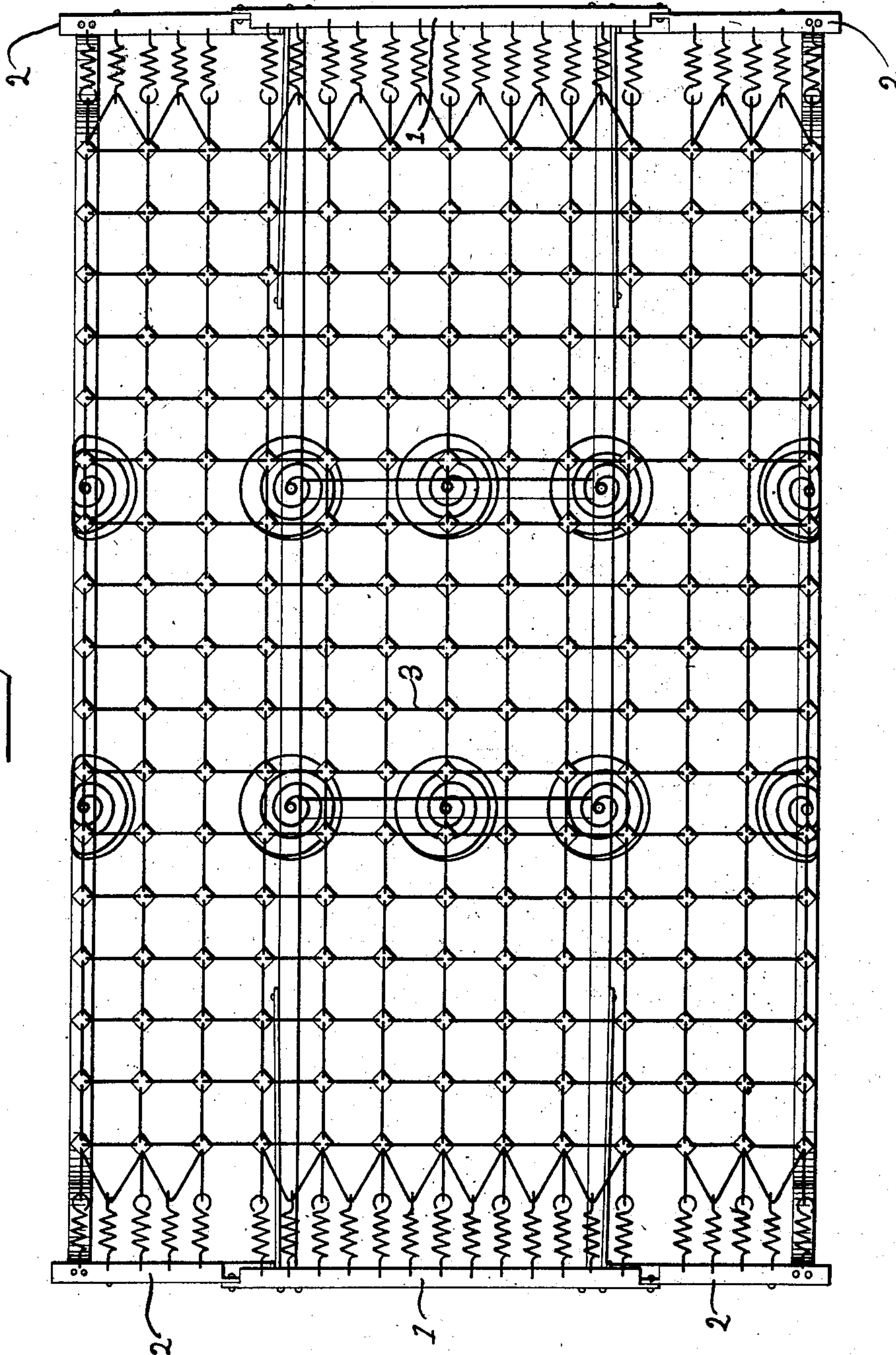
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Fig-4-



WITNESSES

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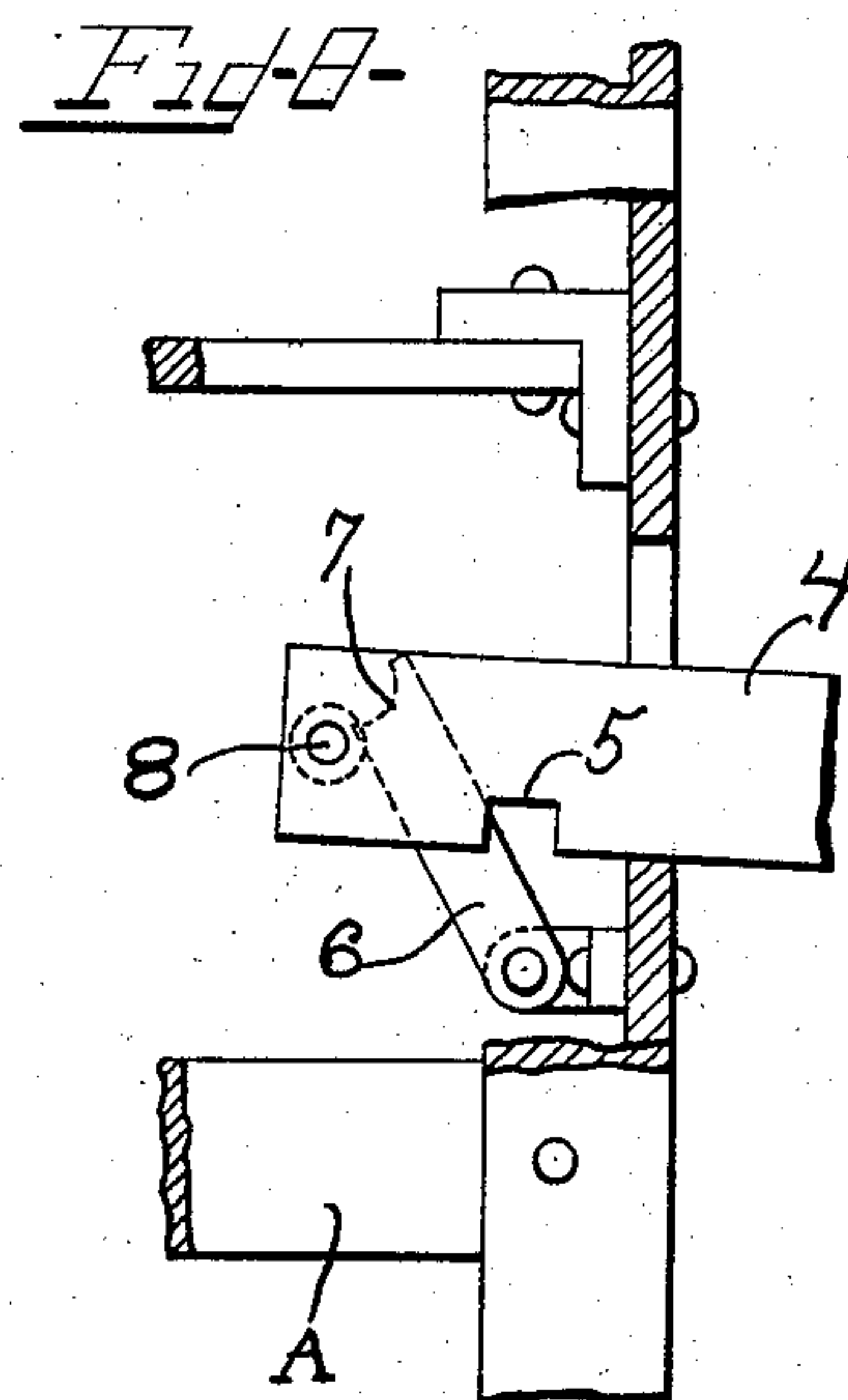
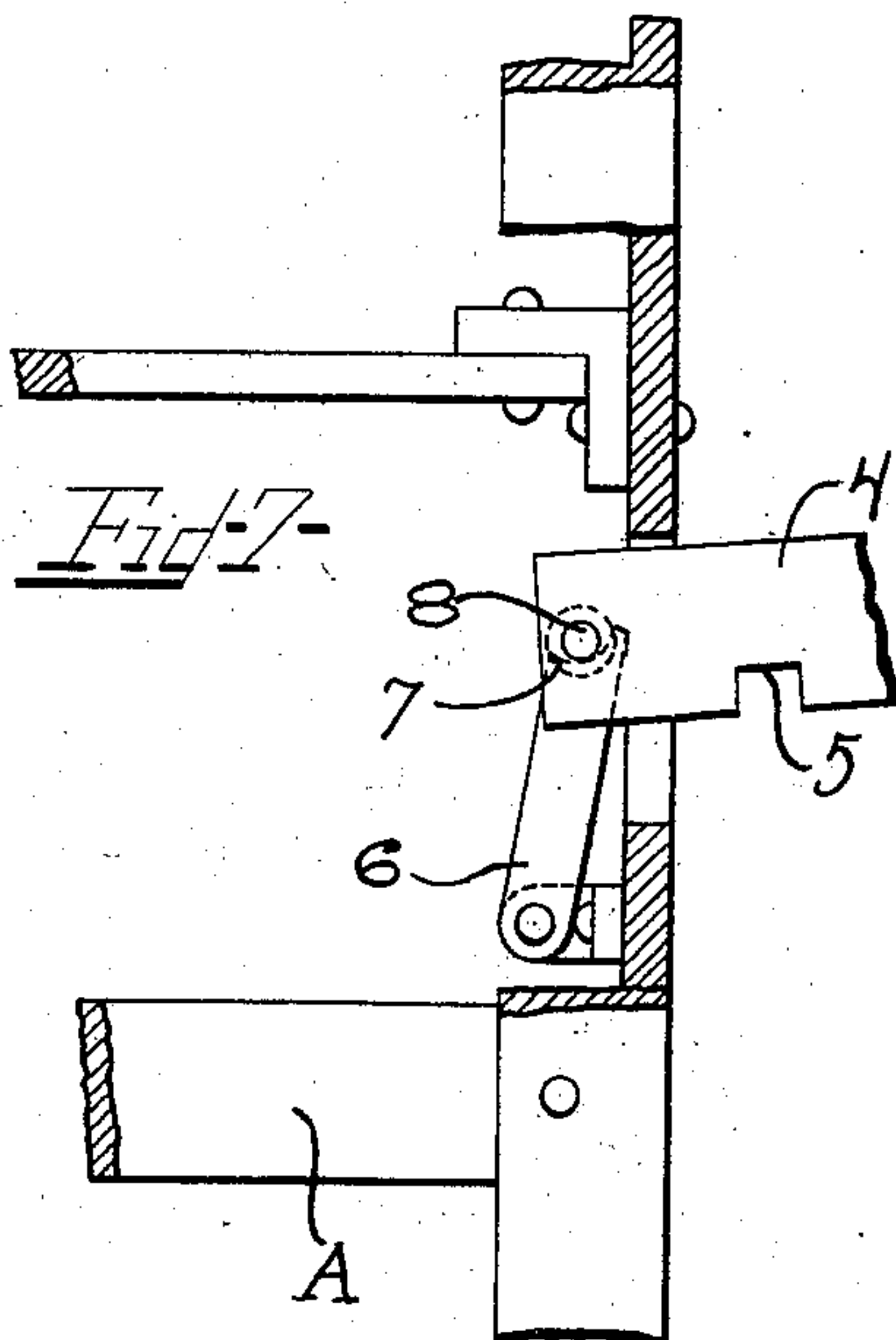
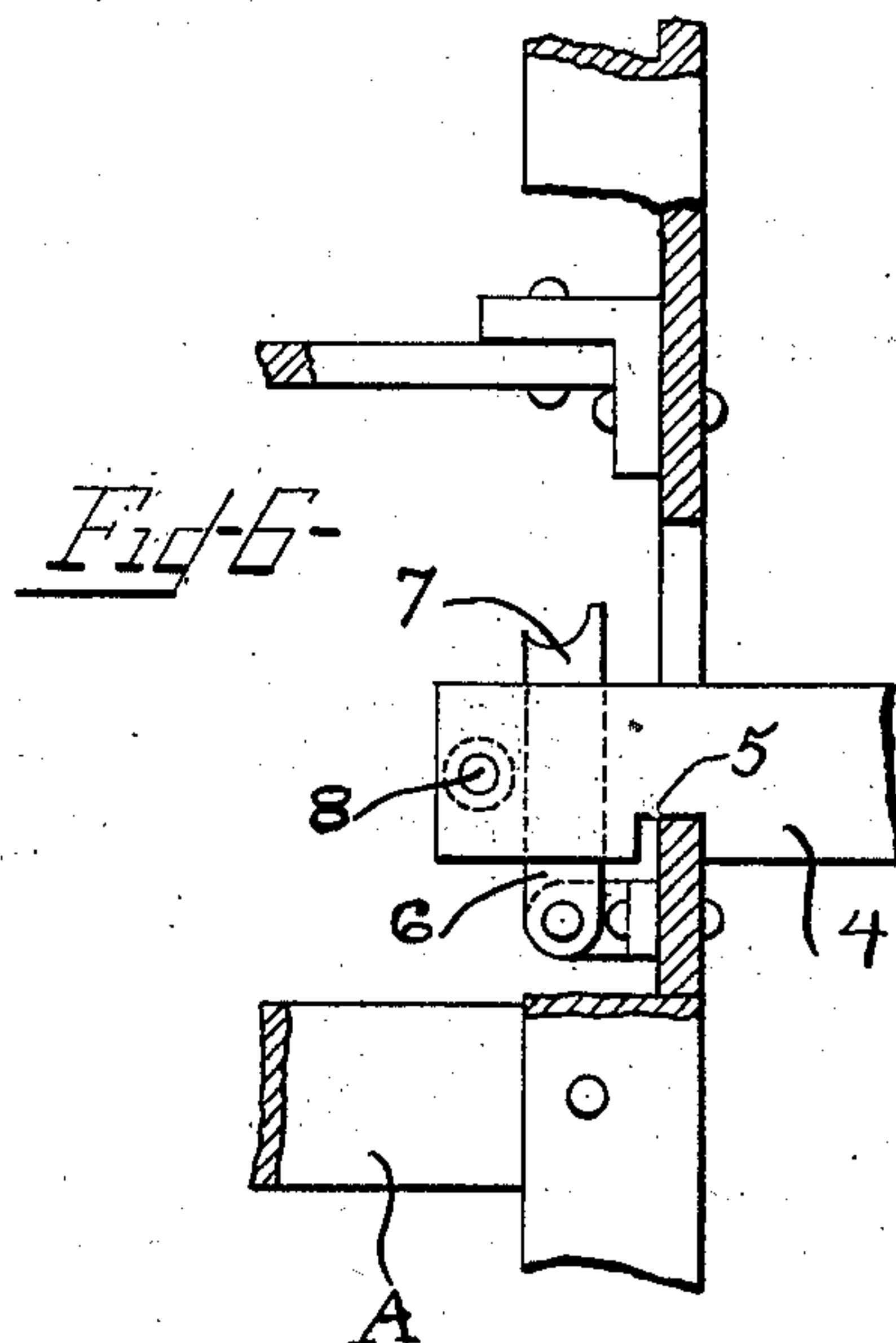
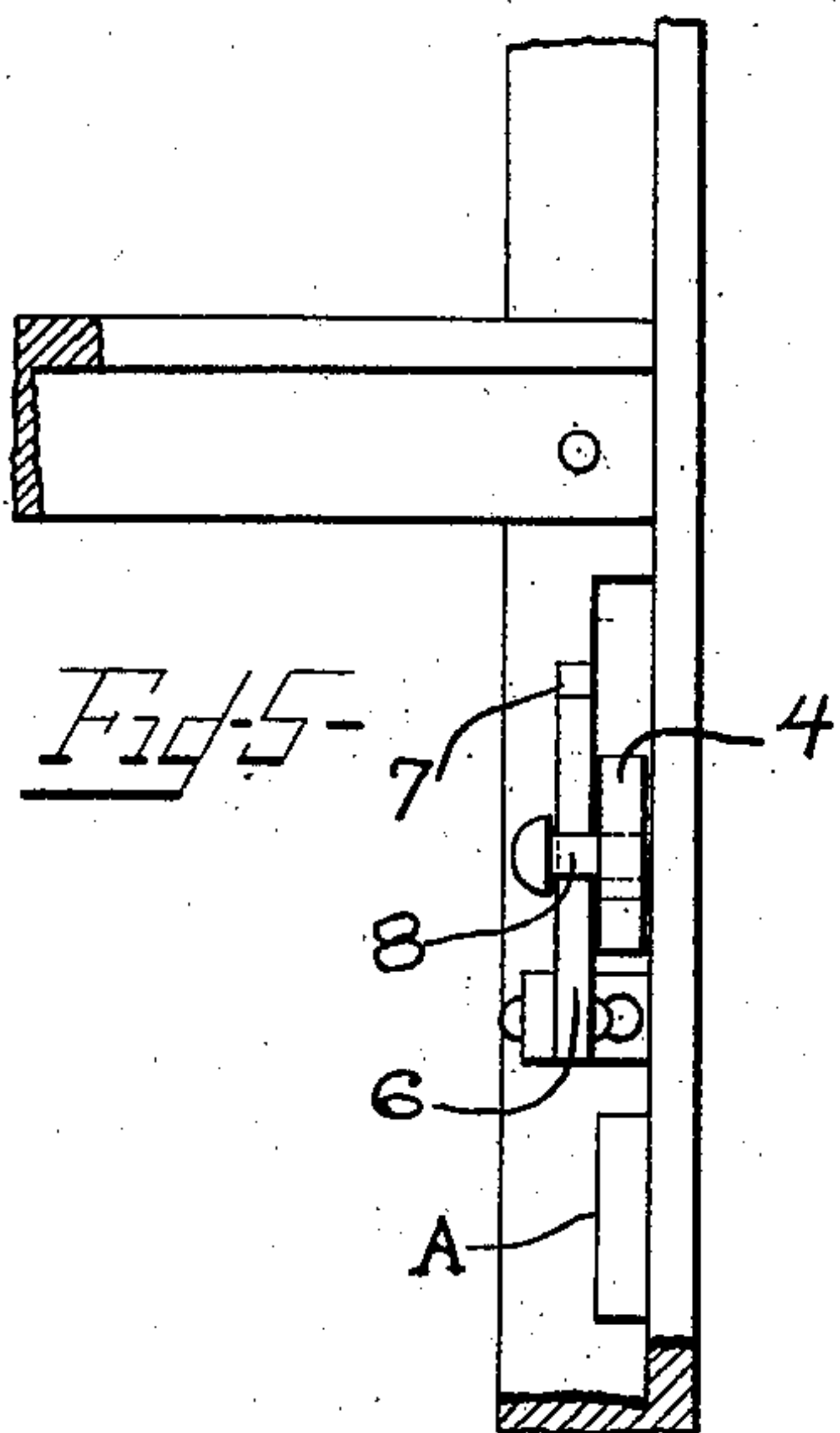
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3 Sheets—Sheet 3.



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# UNITED STATES PATENT OFFICE.

LEVI N. BACHAND, OF CHICAGO, ILLINOIS.

## BED.

SPECIFICATION forming part of Letters Patent No. 702,692, dated June 17, 1902.

Application filed March 1, 1901. Serial No. 49,401. (No model.)

*To all whom it may concern:*

Be it known that I, LEVI N. BACHAND, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Beds, (Case No. 11,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to bed structures, and more particularly to metallic-frame bed structures.

The principal object of my invention is to provide a simple, practical, and improved construction which will allow the same bed structure to be used alternately either as a double bed or as single couch.

In the accompanying drawings, Figure 1 is an end elevation of a bed structure embodying my invention, the structure being shown in this figure as arranged for use as a double bed. Fig. 2 is an end elevation of the same, showing the method of adjusting the structure. Fig. 3 is a similar end elevation showing the structure arranged for use as a couch. Fig. 4 is a plan of the structure when arranged as shown in Fig. 1. Figs. 5 to 8, inclusive, are views of details of construction, showing the operation of the locking and releasing devices.

The form of bed structure shown in the drawings consists of a suitable metallic bed having a supporting-frame A and a bed-bottom B arranged thereupon. The bed-bottom B consists of a central stationary longitudinal portion 1, secured rigidly to the upper ends of the legs of the frame A, and a couple of swinging side portions or sections 2 2, which are pivotally connected, respectively, to the opposite ends of the central longitudinal stationary portion 1. The spring or mattress 3 is extended across both the central longitudinal portion 1 and the two swinging side portions 2 2, so as to permit the latter to be swung up or down without interfering with the use of the mattress for the entire structure when the side portions are in elevated positions, as shown in Fig. 1, and without permitting it to extend or project when the side portions 2 2 are swung to downward position, as shown in Fig. 3.

When the structure is arranged with both side portions 2 2 in elevated positions, as shown in Fig. 1, the structure is used as a double bed or cot, and when the side portions are both down, as shown in Fig. 3, the structure is used as a couch. Of course it is understood that in each of these arrangements of the structure the latter is properly covered with bedding adapting it for the respective uses.

My invention in the present case relates more particularly to the arrangement by which the side portions 2 2 are locked in their elevated positions and unlocked, so as to permit them to be swung into their downward positions. The invention contemplates an automatic locking of these side portions as soon as they are elevated to their proper positions and an automatic unlocking when it is desired to lower them.

In the embodiment of the invention which I have shown in the drawings I attach to the side portions 2 2 sectors 4 4, one sector at the end of each side portion, each sector being provided with a notch 5 near its free end. The sectors 4 4 are arranged to slide in slots formed in the legs of the frame A, and the notches 5 5 are so disposed that when either of the swinging side portions 2 2 is elevated to its upper position the notches 5 5 on the sectors 4 4 at its opposite ends will allow the sectors to drop, so as to cause the engagement of the notches 5 5 with the edges of the legs forming the bottoms of the slots. In this way the sectors 4 4 are firmly engaged or locked and the swinging side portion is held in its elevated position.

As an arrangement for the automatic release of the sectors 4 4 when it is desired to lower one of the swinging side portions I provide pivotal catches 6 6, pivoted to the legs of the frame A below the slots for the sectors 4 4. The catches 6 6 are constructed with circular notches 7 7 at their upper ends, and the sectors 4 4 are provided with pins or rivets 8 8, adapted to engage the recesses 7 7. By such arrangement when it is desired to lower one of the side portions 2 2 that portion is swung upward to a slight extent, thereby causing the pins 8 8 on its sectors 4 4 to draw the swinging catches 6 6 backwardly or outwardly, whereupon the pins 8 8 slide up-



wardly upon the catches 6 6 and rest in and engage the recesses 7 7 at the upper ends of the catches 6 6, as shown in Fig. 2 at the left-hand side of the figure. This causes the engagement of the sectors 4 4, so that their inner ends are held at such an elevation that their notches 5 5 will not engage the lower edges of the slots in which they work. The swinging side portion is then allowed to drop, whereupon the inner ends of the sectors 4 4 in moving inwardly are supported by catches 6 6 at such an elevation that the notches 5 5 cannot engage the lower ends of the slots, thereby permitting the swinging side portion to descend to its proper position without hindrance. By this arrangement it will be seen that when it is desired to lift either or both of the swinging side portions all that is necessary is to lift the same to its or their proper position or positions, and when it is desired to lower one or both thereof all that is necessary is to give the same a slight upward elevation and then permit it or them to descend.

While I have herein shown and particularly described the preferred embodiment of my invention, I do not wish to limit myself to the precise construction and arrangement as herein shown and particularly described; but—

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

1. In a bed structure, the combination of a swinging side portion, sectors attached thereto, the said sectors having their inner or free ends provided with notches, the legs of the bed structure being provided with long slots in which the sectors can work and whose lower edge the notches in the sectors can engage, pins arranged upon the inner ends of the sectors, and swinging catches pivotally connected to the legs of the bed structure and having recesses adapted to engage the pins on the ends of the sectors, whereby upon a supplemental elevation of the swinging side portion the pins on the sectors will engage the recesses on the swinging notches, and will cause the inner ends of the sectors to be retained in an elevated position, and thereby permit the swinging portion of the bed-bottom to descend, substantially as described.

2. A bed structure comprising a central, stationary, longitudinal portion, a couple of swinging side portions pivotally connected to the opposite sides of the central portion, sectors attached to the swinging side portions near their outer ends, the said sectors having slots formed in their lower sides near their inner ends and being provided with laterally-

projecting pins at or near such ends, the legs of the bed structure being provided with slots in which the sectors can travel and with whose lower edges the notches in the sectors can engage, and pivoted catches pivoted to the legs of the bed structure below the slots therein, the said catches being provided with recesses adapted to engage the pins on the sectors, whereby the inner ends of the sectors will be raised by the engagement of the pins with the catches upon a supplemental elevation of the swinging side portions and will thereby permit the side portions to descend without interference, substantially as described.

3. A device for supporting a swinging structure in an elevated position, comprising a bar or rod, means for engaging the same when the swinging section is elevated, and means for disengaging the bar or rod upon a supplemental elevation of the swinging section, said means consisting of a swinging arm or catch, and means on the bar for engaging the same, the swinging arm or catch being arranged to swing outwardly and thereby elevate the bar or rod upon a supplemental outward movement of the said bar or rod, substantially as described.

4. A device for supporting a swinging section in an elevated position, consisting of a locking bar or rod, means for engaging the same so as to hold the section in an outward or elevated position, a swinging arm or catch, and means on the locking bar or rod for engaging such arm or catch, the latter being arranged so that when engaged it will swing the supporting bar or rod so as to disengage the same upon a supplemental upward or outward movement of the swinging section and will prevent the reengagement of the bar during the inward or return movement of the same, substantially as described.

5. The combination with the locking bar or rod 4, of means for engaging the same, and the swinging arm 6 pivotally connected to the engaging means, the said locking-bar being provided with means for engaging the swinging arm 6 whereby when so engaged the swinging movement of the arm 6 will shift the lateral position of the locking-bar, substantially as set forth.

In witness whereof I hereunto subscribe my name this 9th day of January, A. D. 1901.

LEVI N. BACHAND.

Witnesses:

GEORGE L. CRAGG,  
HARVEY L. HANSON.