

J. L. MOORE.
 SPRING BED BOTTOM.
 APPLICATION FILED SEPT. 17, 1908.

944,569.

Patented Dec. 28, 1909.

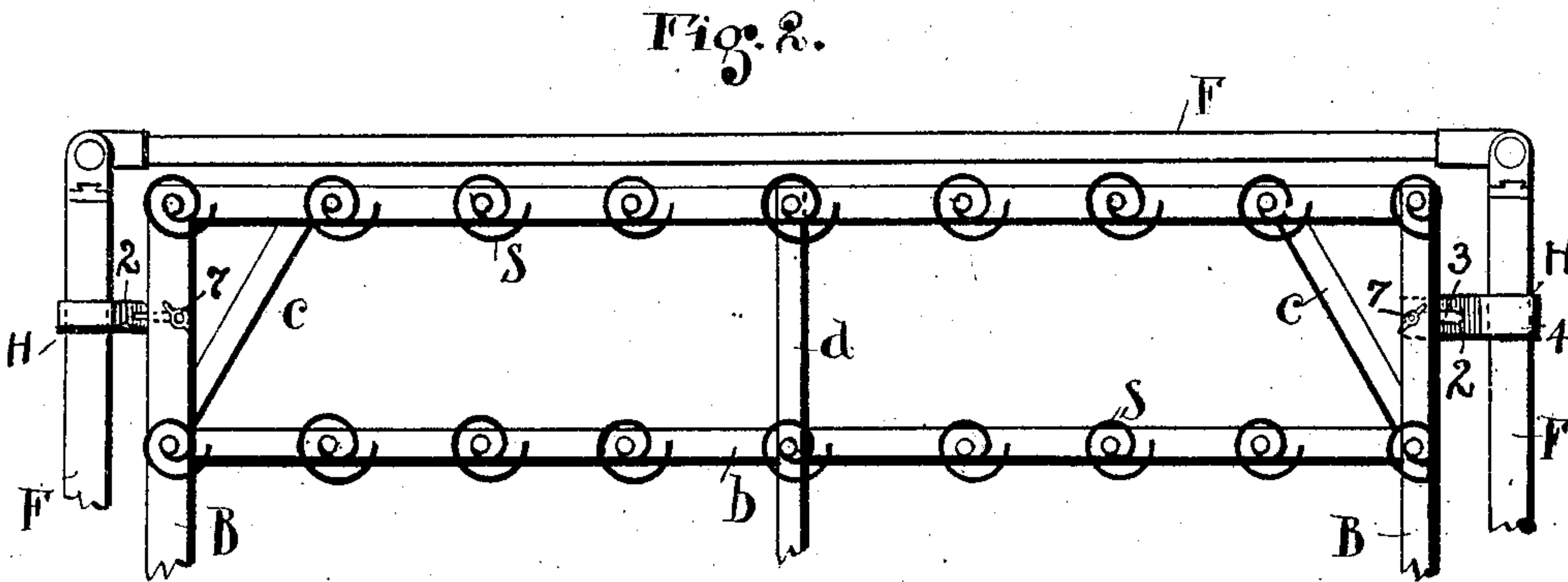
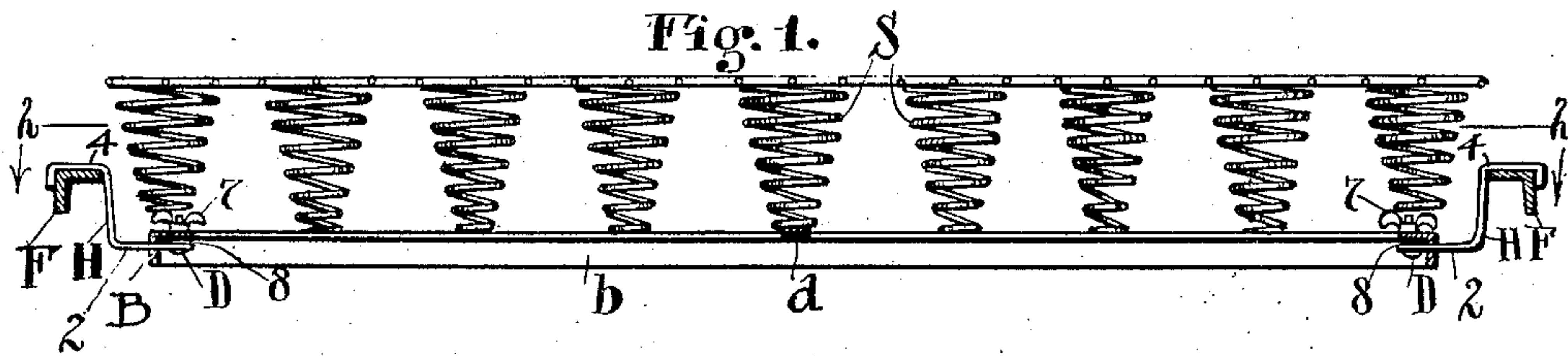


Fig. 3.

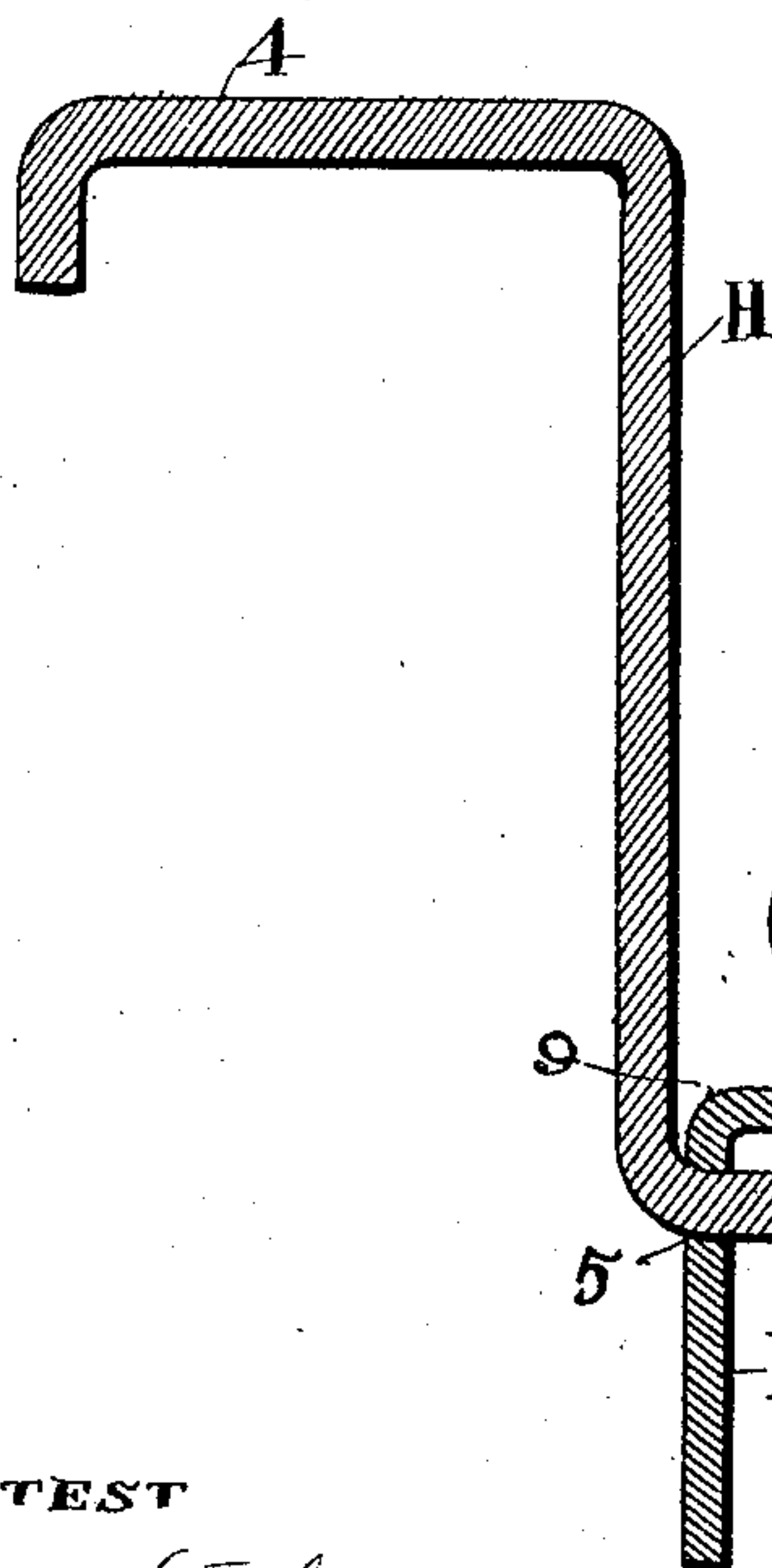


Fig. 4.



Fig. 5.

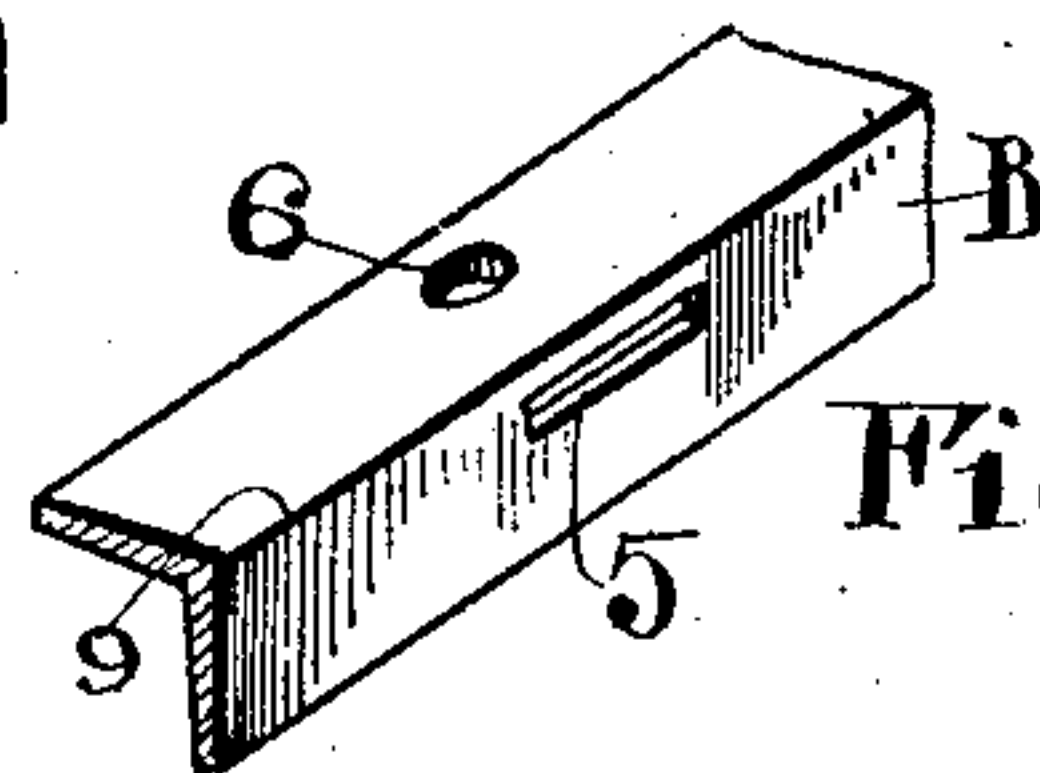
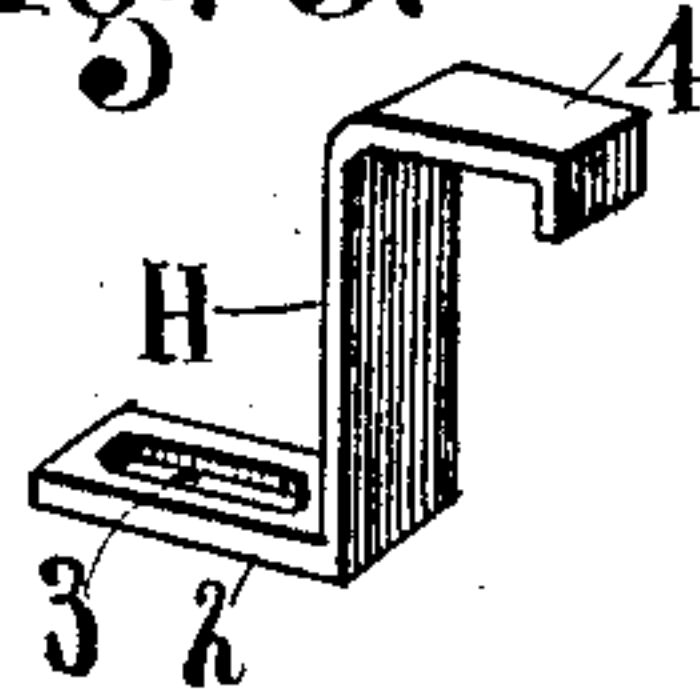


Fig. 6.

ATTEST

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UNITED STATES PATENT OFFICE.

JACOB L. MOORE, OF BELLEVUE, OHIO.

SPRING BED-BOTTOM.

944,569.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed September 17, 1908. Serial No. 453,378.

To all whom it may concern:

Be it known that I, JACOB L. MOORE, a citizen of the United States, residing at Bellevue, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Spring Bed-Bottoms, and do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in spring bed-bottoms, and the invention consists in a spring bed-bottom and adjustable hangers therefor, all substantially as shown and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a cross sectional elevation of a spring bed bottom comprising my invention, and Fig. 2 is a plan view of one end thereof, the invention being disclosed in both Figs. 1 and 2 in connection with a portion of a bed frame, as hereinafter fully described. Fig. 3 is an enlarged cross section of one of the side angle bars of the bed-bottom frame and a sectional elevation and one of the hangers engaged therewith. Fig. 4 is a group view comprising one of the bolts and nut and washer for securing the hanger to the bed-bottom. Fig. 5 is a perspective view of a hanger, and Fig. 6 is a perspective view of a section of the bed bottom angle bars with which the hanger is designed to be engaged.

The invention as thus shown is comprised essentially in the bed-bottom B and in the hanger H by which said bottom is suspended or supported from the bed frame F.

The bed-bottom frame B is shown as of angle iron, which is the usual form of a metallic frame for this purpose, and carries particularly a series of transverse slats or bars b fixed rigidly therewith at their ends and upon which the spiral wire springs S are supported, as usual. This particular frame is also shown as having braces c in its angles or corners, and a relatively slight bar d lengthwise at the bottom at its center, and the springs are connected across the top as usual to hold them in right working relations. Presumably the bed-bottom B shown is of a well known and common pattern in the main, but the above details are mentioned because they are important in connection with means for supporting the said bottom upon a bed frame as will be hereinafter more clearly seen. The outer or bed

frame F proper in this instance, also, has side rails of angle iron pattern, but it might be a wooden frame instead with ledges on the inside on which to engage the hangers, and the hangers H are designed to support the bed-bottom from the bed frame whether it be of wood or metal. However, it is well known that there is difference in the width of beds, the wooden beds ordinarily being somewhat narrower than the iron or metallic beds, and there are also variations of widths in both kinds of beds as made by different firms or manufacturers. Hence the importance of accommodation in a bed-bottom to whatever width or size of bed frame may be found in the home or in the sales-room, to the end that the bottom may be supported from such frame with equal facility whatever its width may be, assuming of course that it is within the dimension of beds as they are ordinarily found in the market and in which there is a variance not exceeding a few inches at the most. To these ends I have devised a hanger H as clearly shown in Figs. 3 and 5, which has a right angled end 2 adapted to be engaged with the bed-bottom and which is provided with a slot 3 lengthwise and a right angled end 4 at its top bent in the opposite direction from end 2 and preferably of hook shape and adapted to engage over the bed sidewise of the bed frame. Incident to this construction of the hanger, and particularly to the slotted extremity 2, I form a slot 5 through the side of the side rail of the bed-bottom and provide a bolt hole 6 through its horizontal or top side or angle relatively disposed to said slot, as seen in Fig. 6. Then in order to secure the hanger in the said rail I extend the end 2 through slot 5 and lock the hanger thereon by means of a bolt D which engages through hole 6 from beneath and a nut 7 after having interposed the washer 8 between the hanger and the bed rail as seen in Fig. 3. In this connection it may be noted that in order to preserve the strength of the bed-bottom rail in its angle 9, I find it desirable to form the slot 5 beneath the said angle relatively as shown, and then in order that a firm engagement may be made by bolt D and the parts be held in square relation to each other I interpose the washer 8 which equalizes the drop of slot 5 and brings the hanger squarely at right angles with the bed-bottom rail. It will also be seen that the bolt D has a square shoulder d'

adapted to take into the slot 3 and thus prevent the said bolt from rotating.

As many of the hangers H are disposed along the sides of the bed-bottom as good service may require say four or five at each side, and they might also be used at the ends of the bed but this is not deemed necessary, and it is also to be observed that at whatever adjustment the hanger H may be in respect to the bed bottom, the connection of the said bottom is designed to be perfectly rigid through bolt D, so that the effect is the same as if the hanger were made a rigid part with the bed bottom in the first place. Then by reason of the cross slats of the bed bottom the respective sides of the said bottom are braced one to the other and a perfectly rigid structure is obtained throughout.

The assembling of the parts may of course occur in a salesroom or at any other place, and adjustment can otherwise be made to accommodate the parts to the particular width of bed to which they may be brought.

If it be a metallic bed or bed frame, as shown herein, the maximum width of frame presumably, the hangers are placed shown in Figs. 1 and 2 and spread to practically their limit. On the other hand if it be a narrow

bed the opposite adjustment may be desired, as shown in Fig. 3. It is to be observed also that the slots 5 are of the same width as the hangers inserted therein, and with several hangers disposed along the sides of the bed bottom and all of them engaging closely in the said slots and rigid with the bottom, a perfectly rigid frame work is obtained, and this is important to avoid looseness in the joints and consequent noise in the use of the bed.

In some instances in wooden beds it may be desirable to place the mattress without the hooks, and in such case the hooks may be removed.

What I claim is:—

1. A bed-bottom having angle iron side rails provided with slots through their sides and holes in their top opposite said slots, and hangers having right angled lower ends projected through said slots and bolts through said ends and said holes in said side rails locking the hangers in place.

2. A spring bed-bottom having angle iron side rails and coincident slots and holes through its respective angles, and hangers having ends projected through said slots and provided with slots opposite said holes, and bolts and nuts locking said hangers adjustably in place.

3. The bed-bottom having angle iron side rails provided with slots through their sides below their upper edges and coincident holes through their top, and hangers engaged through said slots having slotted ends projecting through said slots, and bolts engaged through said slotted ends and in said holes in said side rails and means about said bolts between said rails and said hangers to maintain the level of the hangers in the rails.

4. A bed-bottom having angle iron side rails and slots lengthwise at intervals through the sides of said rails below their corner edges and holes through the tops of said rails corresponding to said slots.

5. A rectangular bed-bottom having angle iron rails arranged with one side horizontal and the other side vertical and on the outside of said frame, in combination with hangers having their ends bent at right angles to the body thereof and in opposite directions therefrom and one of said ends projected through the vertical side of said rail and adjustably engaged with the horizontal side of said rail at the bottom thereof.

In testimony whereof I sign this specification in the presence of two witnesses.

JACOB L. MOORE.

Witnesses:

E. M. FISHER,
F. C. MUSSUN.