(No Model.)

P. H. MELLON.

BOTTOM FOR METALLIC BEDS.

No. 568,165. Patented Sept. 22, 1896.

Fig. I.

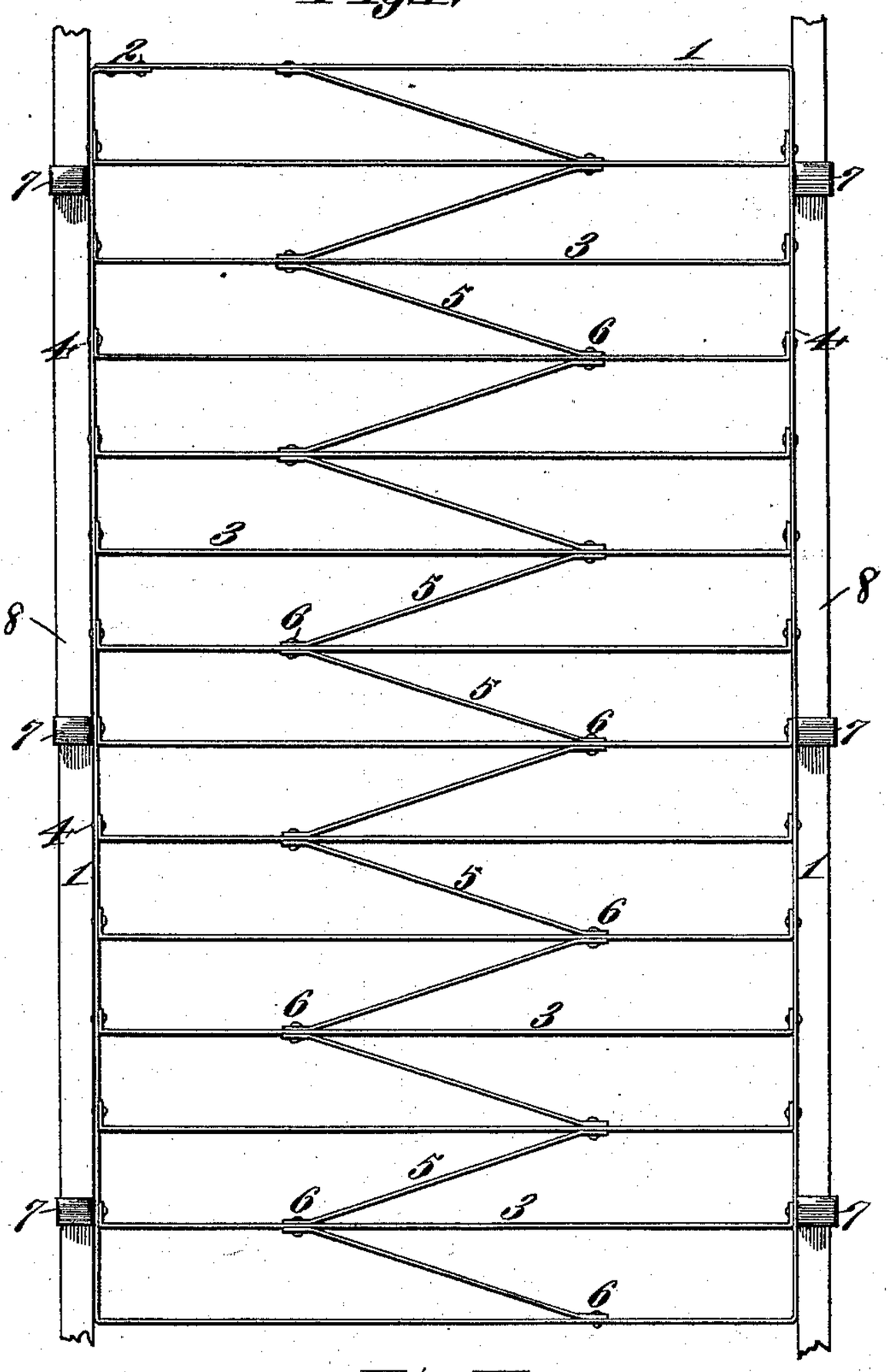

Fig. II.

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BOTTOM FOR METALLIC BEDS.

SPECIFICATION forming part of Letters Patent No. 568,165, dated September 22, 1896.

Application filed April 13, 1896. Serial No. 587,366. (No model.)

To all whom it may concern:

Be it known that I, PETER H. MELLON, a citizen of the United States, and a resident of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Bottoms for Metallic Beds, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

The object of my invention is to provide a bottom for metallic beds that is light, strong, and which cannot sag. The construction which I have provided accomplishes for metallic beds what wood slats accomplish for wooden beds, namely, the supporting of the springs without any sagging in the center of the bed. This sagging or depression is sure to occur with all springs unless some bottom is provided which maintains a plane surface. Cross-slats of steel are too heavy and expensive for practical use, and the usual band-steel laths attached to buttons on the side rails are bound to sag in the center. I have therefore provided a bed-bottom that is neither heavy nor liable to sag.

Referring to the drawings, Figure I is a top plan view of the improved bed-bottom. Fig. II is an end view of the same.

1 is a single-band steel frame, formed edge up, the ends of which are secured by rivets or otherwise at 2. This frame is the size of the bed-body, and the band of steel is set vertically, so that the pressure thereon is edgewise. 3 are cross-slats likewise set edgewise to the pressure or shearing force and fastened to the frame 1 by the rivets 4. The relative distance between these cross-slats 3 is maintained by short diagonal braces 5, secured to the middle portion of the said slats by rivets 6. Frame 1, slats 3, and braces 5 are all composed of band-steel set edgewise to the pressure.

The bottom is attached to the bed-frame by means of the hangers 7, which are adapted to suspend the said bottom from the side rails 8, which are of angle-iron, as shown. This enables one to lift the bottom from the bed-frame easily and quickly, and yet also serves to keep the frame securely when in position.

The slats being placed edgewise throws all the weight and strain upon them in a manner best adapted to receive it, and no sagging is possible. The braces 5, arranged in zigzag manner, and the frame 1 combine to prevent any side or end movement of the slats. The braces being arranged in zigzag manner form a continuous brace and strengthen the middle portion of the bottom. The springs, no matter of what kind, resting on this bottom always maintain a perfectly even or plane surface.

In my device the braces being placed zigzag, as shown, secure absolute rigidity and great strength. If they were placed parallel, as heretofore, instead of zigzag, there would be much more material required in the making thereof, with the danger of the same being insecure or shaky. Placing them zigzag instead of straight or parallel saves not only material in the brace, but enables the frame to be made with half as many rivets.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

A bottom for metallic beds comprising a single encircling flat steel band 1, set edge up, a series of single transverse flat steel slats 3, secured edge up to the encircling band, and a series of short single diagonal flat steel braces secured edge up in zigzag manner to the middle portion of the slats so as to provide a center brace extending the whole length of the bottom to prevent the slats from moving in any direction; substantially as described.

PETER H. MELLON.

In presence of—
E. S. KNIGHT,
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