May 15, 1928. 1,670,055

C. P. TRIMBLE

SPRING SUPPORTING FRAME FOR BEDS AND THE LIKE

Filed Dec. 29, 1924

Fig. 1.

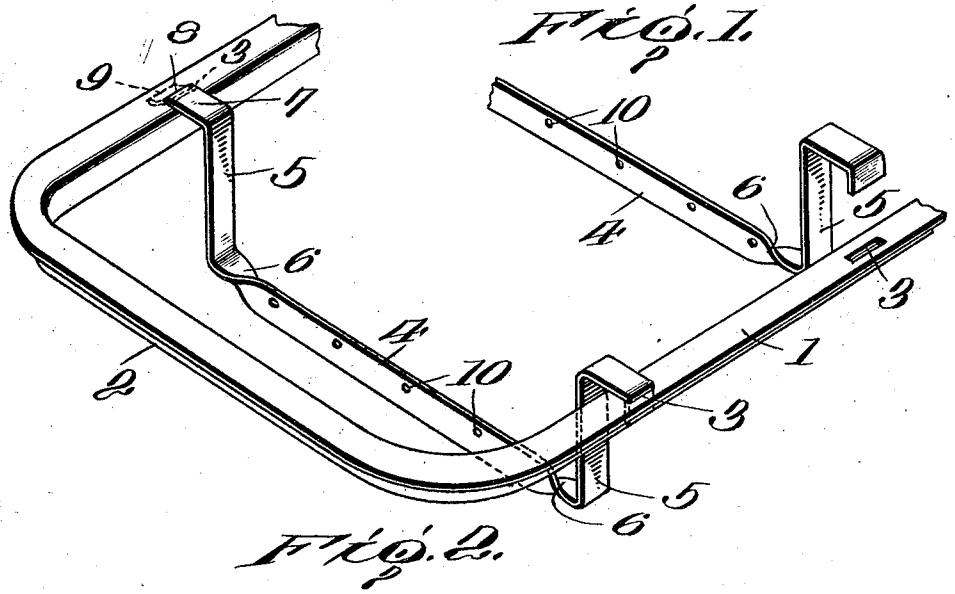


Fig. 2.

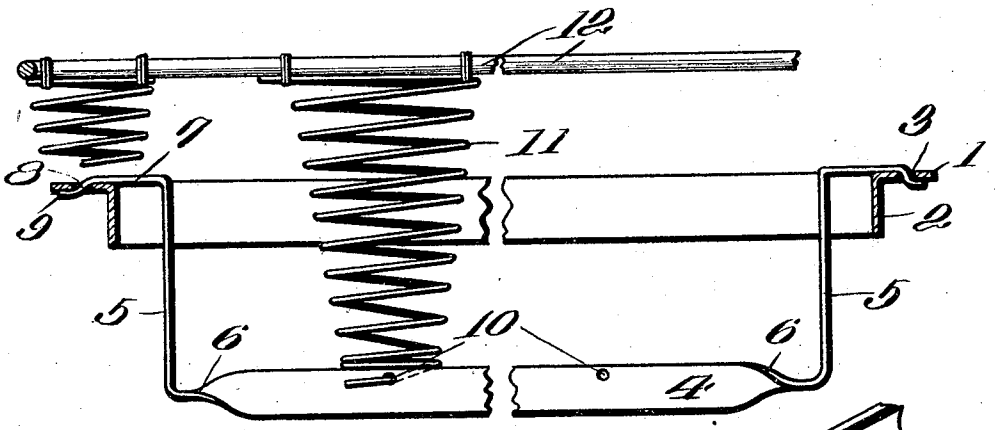
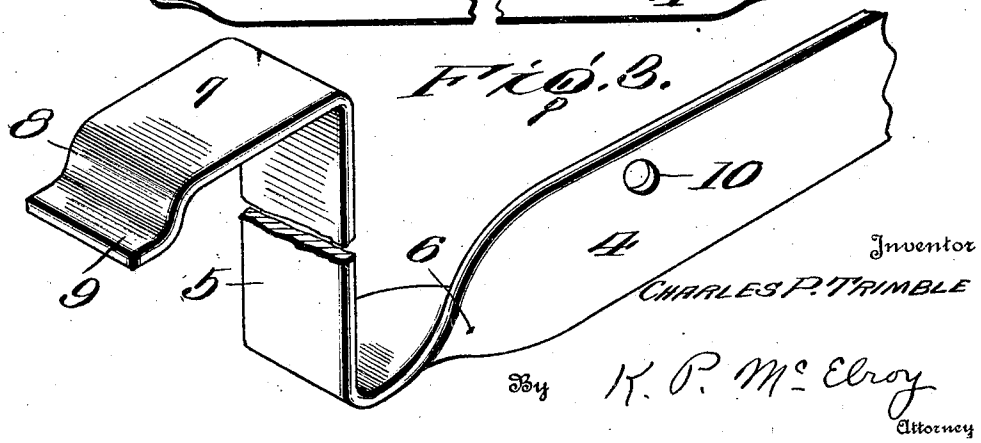


Fig. 3.



Inventor
CHARLES P. TRIMBLE
By K. P. McElroy
Attorney

Patented May 15, 1928. 1,670,055

UNITED STATES PATENT OFFICE.

CHARLES P. TRIMBLE, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO FORT PITT BEDDING COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

SPRING-SUPPORTING FRAME FOR BEDS AND THE LIKE.

Application filed December 29, 1924. Serial No. 758,699.

This invention relates to spring supporting frames for beds and the like and it comprises a spring supporting frame having opposite side and end members, the side members being provided with a series of opposite slots, cross bars provided at opposite ends with lips arranged to engage the slots, said lips passing through the slots and being so formed as to project downwardly and outwardly in order that the bottom face of a portion of the lip shall rest upon the top face of the side member and the top face of the end portion of the lip shall rest against the under face of the side member; all as more fully hereinafter set forth and as claimed.

In the manufacture of spring frames for beds and the like the frames are usually made of angle iron and the spring supporting bars are usually attached by riveting, welding or the like. This mode of manufacture is comparatively expensive and troublesome and it is one of the objects of this invention to simplify the manufacture and assembling of such spring supporting frames by eliminating the necessity of welding or riveting of the bars.

Another object of this invention is to provide a spring supporting frame which will accommodate springs of greater depth than ordinarily used and at the same time will not result in a finished bed spring the top of which will extend too high above the sides of the bed. This object is attained by shaping the transverse cross bars for supporting the springs so that they extend a sufficient distance below the main frame.

In the accompanying drawings, I have shown one form of a specific embodiment of the invention.

Fig. 1 is a segmental detail perspective illustrating the method of assembling the cross bars with the frame.

Fig. 2 is a transverse section through the frame showing one of the spring bars in side elevation and showing the spiral spring and upper frame; and

Fig. 3 is a segmental enlarged perspective of one of the spring supporting bars.

The spring supporting frame comprises an angle iron member having horizontal face 1, and vertical face 2, the horizontal faces being provided with a plurality of slots 3. The spring supporting bars are particularly adapted for use with an angle iron frame such as described. The spring supporting bars are made of one piece of metal having horizontally disposed lower portion 4 and upwardly extending sides or intermediate portions 5, the lower portion and the sides of each bar being twisted with respect to each other as is shown at 6 for purposes of reinforcement and also to dispose the wide faces the lower portion of the bar in a vertical plane. The ends 7 of the bar extend in a general horizontal plane with the extreme ends bent downwardly as at 8 and forwardly as at 9. The length of the slots 3 of the frame corresponds to the width of the bars at the extreme end. The lower portion 4 of each bar is provided with a plurality of holes 10 each of which is adapted for the reception of one end of a coil spring 11 which is anchored to the frame 12 forming the upper portion of the bed spring. As made, each bar is provided at one end with a downwardly extending lug or lip in order that the bars may be easily and readily assembled with the frame. To assemble a bar with the frame the end which is provided with the downwardly and forwardly bent portion (shown at the left in the drawings) is inserted in a slot; the bar being held in substantially a vertical position. The bar is then lowered so that the horizontal portion 4 is positioned below the frame and so that the upper face of the horizontally extending end 9 bears against the under face 1 of the main frame adjacent the slot and the under face of the end 7 rests on top of the face 1 of the main frame adjacent the slot. The downwardly extending lip at the other end of the bar is inserted in the opposite slot of the main frame and advantageously the downwardly extending lip is then bent outwardly as is shown in Fig. 2 (to the right) so that it corresponds to the other end of the bar, resting above and below the horizontal face of the main frame.

The cross bars may be easily and quickly assembled with the frame. Riveting and welding may be dispensed with and the bars when in position are securely and rigidly held in place against accidental movement. Cross bars such as described are particularly useful in connection with bed spring frames

made of angle iron as described and when the bed frame is to be of a construction wherein the coil springs are supported at points below the bed frame, the shape of the end of the bars facilitates assembling the parts. The provision of bars having horizontal portions substantially below the frame enables the use of springs of greater depth than is ordinarily possible without causing the upper portions of the springs to extend an objectionable distance above the level of the bed.

What I claim is:

Spring supporting frame for beds and the like comprising opposite side and end members, the side members being provided with opposite slots, cross bars provided at opposite ends with lips arranged to engage the slots, the lips at one end projecting downwardly and slightly outwardly longitudinally of the bar and the lips at the other end projecting substantially downwardly whereby the downwardly and outwardly projecting lips may be inserted in one slot of the side member in downward direction and the bar then lowered so that the other lip may be inserted in the other slot, whereby the bar can be permanently affixed to the frame by a single bending operation upon the downwardly turned lip.

In testimony whereof, I have hereunto affixed my signature.

CHARLES P. TRIMBLE.