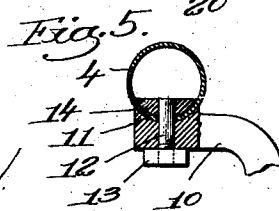
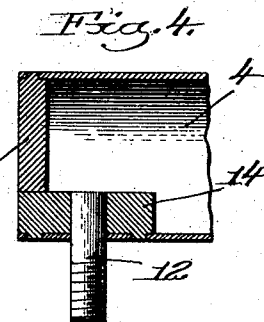
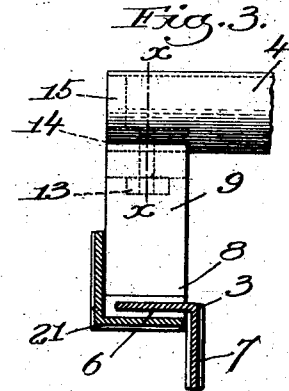
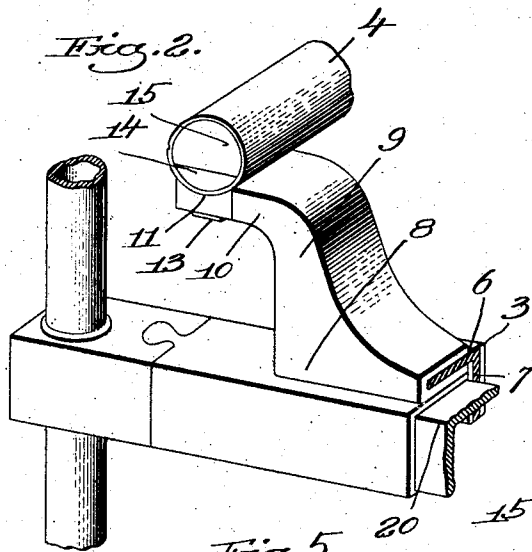
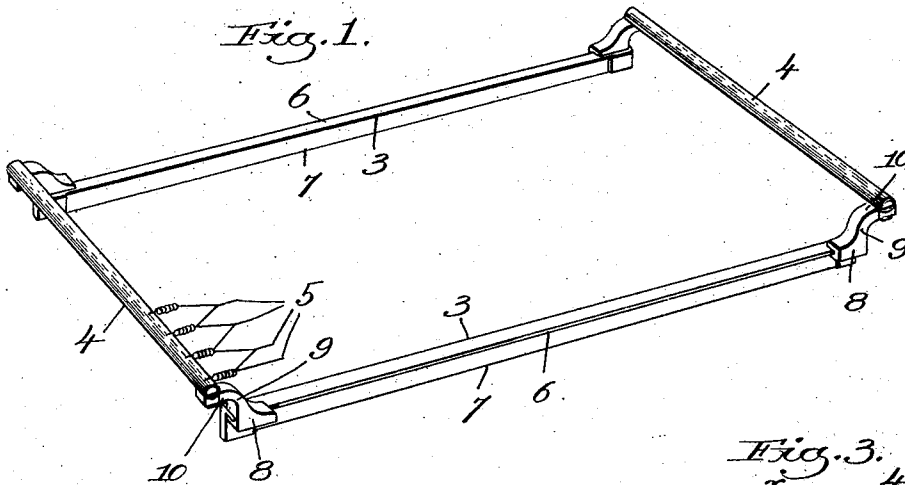


F. G. GALE.
MATTRESS FRAME.
APPLICATION FILED MAY 12, 1909.

986,052.

Patented Mar. 7, 1911.



witnesses:

Frederick S. Gumbart
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UNITED STATES PATENT OFFICE.

FRANCIS G. GALE, OF WATERVILLE, QUEBEC, CANADA.

MATTRESS-FRAME.

986,052.

Specification of Letters Patent.

Patented Mar. 7, 1911.

Application filed May 12, 1909. Serial No. 495,466.

To all whom it may concern:

Be it known that I, FRANCIS G. GALE, a subject of the King of Great Britain, residing at Waterville, Province of Quebec, and Dominion of Canada, have invented an Improvement in Mattress-Frames, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention relates to a mattress frame and has for its object to provide an inexpensive frame which is rigid and not liable to become warped and which can be used equally well with bed frames whether the vertical flange of the angle-iron side rail extends upwardly or downwardly from the horizontal portion thereof.

I will first describe one embodiment of my invention and then point out the novel features thereof in the appended claims.

In the drawings, Figure 1 is a perspective view of a mattress frame embodying my invention; Fig. 2 is an enlarged perspective view of one corner of the mattress frame showing one way in which it can be used in connection with a bed frame; Fig. 3 is a sectional view showing my improved mattress frame when used in connection with the side rail of a bed where the vertical portion of the side rail is directed upwardly; Fig. 4 is a sectional view of one end of the end rail of the frame. Fig. 5 is a section on a reduced scale on the line $x-x$, Fig. 3. 3 designates the side rails of the mattress frame and 4 the end rails or end bars to which the wire fabric 5 is secured in any suitable or usual way. The side rails 3 of the mattress frame are made from angle-iron with the horizontal flange 6 of the angle-iron directed outwardly. The vertical flange 7 may either be directed upwardly or downwardly, although I have herein shown it as directed downwardly. Each side rail 3 has integral therewith at each end a head 8, said head preferably being cast to the side rail. Each head is formed with the upwardly-directed portion 9 and the horizontally-directed portion 10, the latter being the part to which the end rail 4 is secured. The end rails 4 are tubular in shape and the horizontal portion 10 of each head is provided with the curved seat 11 on which the end rail rests. For securing the end rail to the head 8 I propose to provide each end rail with a laterally-extending bolt 12 which

is adapted to extend down through the horizontally-extending portion 10 of the head and to be clamped thereto by means of a nut 13. The bolt 12 may be secured to the tubular member 4 in any suitable way but preferably I will anchor said bolt in the mass 14 of metal which is cast into the end of the tubular member. I have shown another mass 15 of metal poured or cast into the end of the tube 4 to close the end of the latter, and this mass 15 serves also to hold the mass of metal 14 in place. This construction has the advantage that the bolt is securely held to the tubular member 4, but the head of the bolt does not show and the upper surface of the tubular member is smooth and free from obstructions.

A mattress frame embodying this construction is inexpensive to manufacture but is rigid and will hold its shape without twisting or warping.

In some bedsteads the angle-iron side rail which connects the rear and head frames of the bed is set with the vertical flange extending upwardly from the horizontal flange, and in other bedsteads the vertical flange extends downwardly from the horizontal flange. My improved mattress frame is designed to rest on the horizontal flange of the side rail of the bed, whether the vertical flange of said side rail is directed upwardly or downwardly.

In Fig. 2 I have shown at 20 a side rail of the bed arranged with the vertical flange directed downwardly, while in Fig. 3 I have shown at 21 the side rail of the bed with the vertical flange directed upwardly. In each instance, however, the side rail of the mattress frame is adapted to rest on the horizontal flange of the bed side rail, and thus each side rail of the mattress frame has support throughout its entire length.

The special shape of the head 8 is such that even when the bed side rail has the construction shown in Fig. 3 the end rail 4 and consequently the wire fabric is sufficiently far above the side rail of the bed so that the latter does not come in the way of the wire fabric.

It will be noted that in my invention the side rails of the mattress frame are supported directly over the side rails of the bed frame, and as a result my improved mattress frame has the full width of the bed frame.

Having fully described my invention what

I claim as new and desire to secure by Letters Patent is:—

1. A mattress frame comprising angle-iron side rails each arranged with the horizontal flange directed outwardly and the vertical flange directed downwardly, and each having integral therewith at each end thereof a head which rises therefrom and is provided with an extension which projects beyond the end of the side rail and has in its upper face a curved seat, and tubular end rails resting on said seats and bolted to said extensions whereby when the mattress frame is supported by the side rails of the bed frame the horizontal flange of the mattress frame side rails may rest on the horizontal flange of the bed frame side rails.

2. In a mattress frame, the combination with angle-iron side rails, each having its vertical flange at the inner edge of its hori-

zontal flange and each having at each end a head which rises therefrom and is provided with a horizontally-extending extension provided with a curved seat, of tubular end rails resting in said seats, each tubular end rail having at each end a bolt extending from the side thereof through one of said extensions, a mass of cast metal within the end rail in which each bolt is anchored, and another mass of cast metal at each end of each end rail closing the end thereof and overlying and retaining in position the first-mentioned mass.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

FRANCIS G. GALE.

Witnesses:

CARL O. SWANSON,
W. W. SPENCER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
