

No. 844,788.

PATENTED FEB. 19, 1907.

F. G. GALE.
MATTRESS FRAME.
APPLICATION FILED APR. 23, 1906.

Fig. 1.

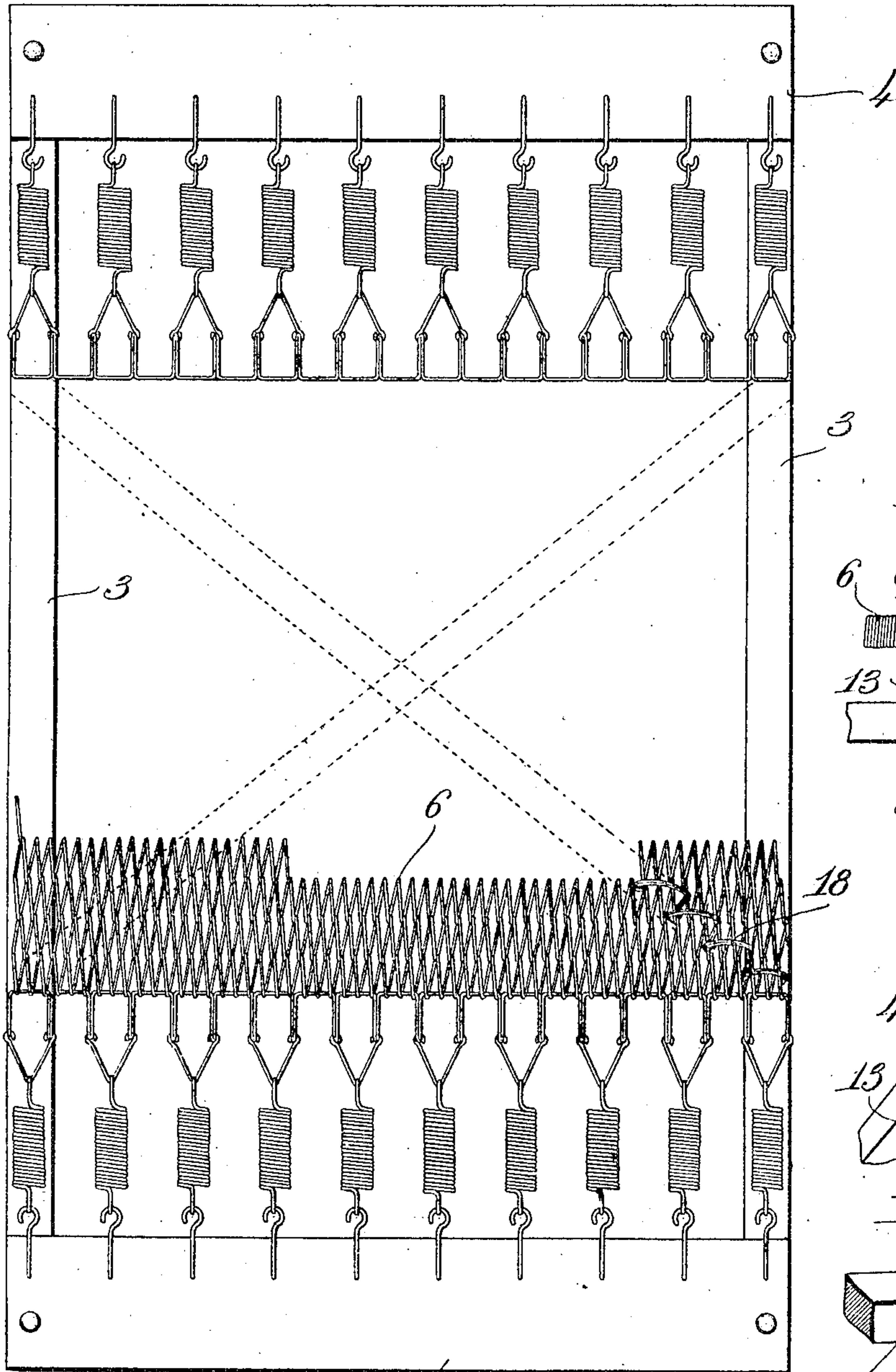


Fig. 2.

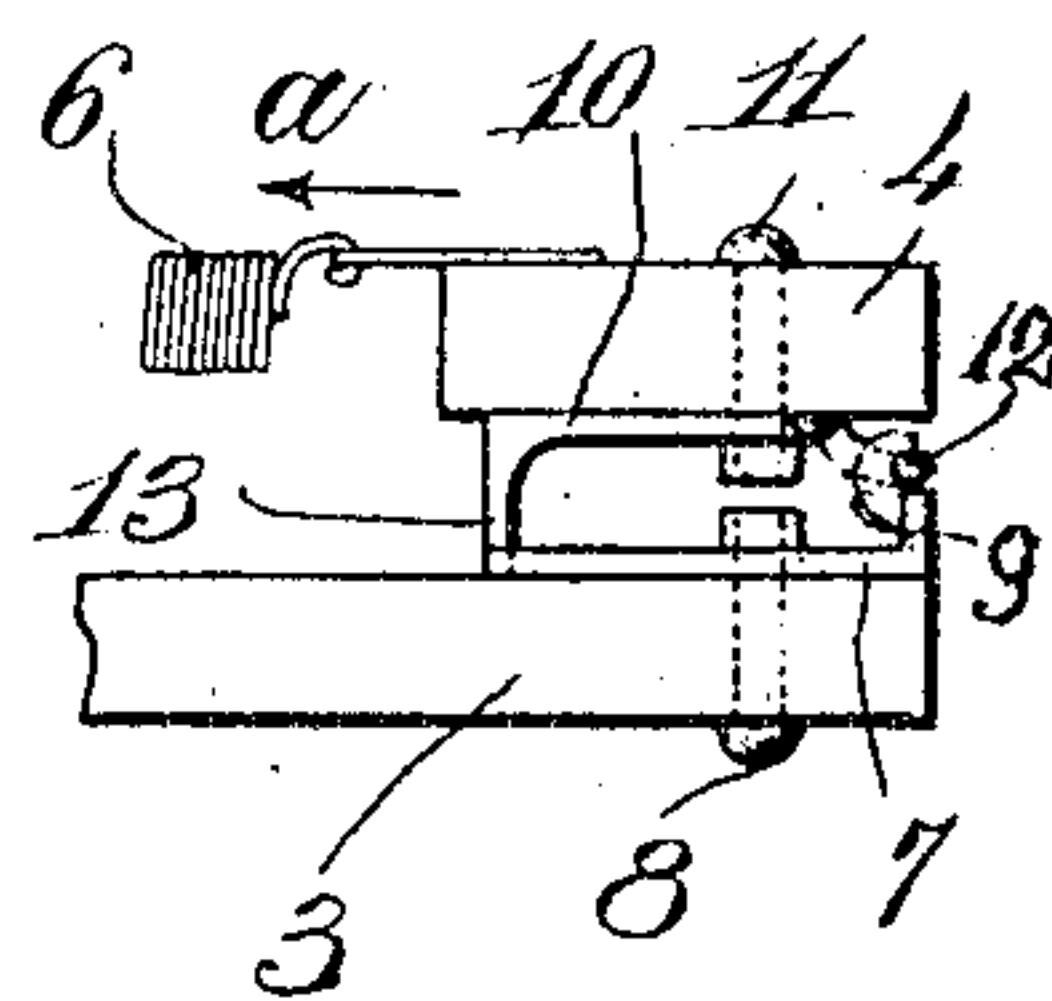


Fig. 3.

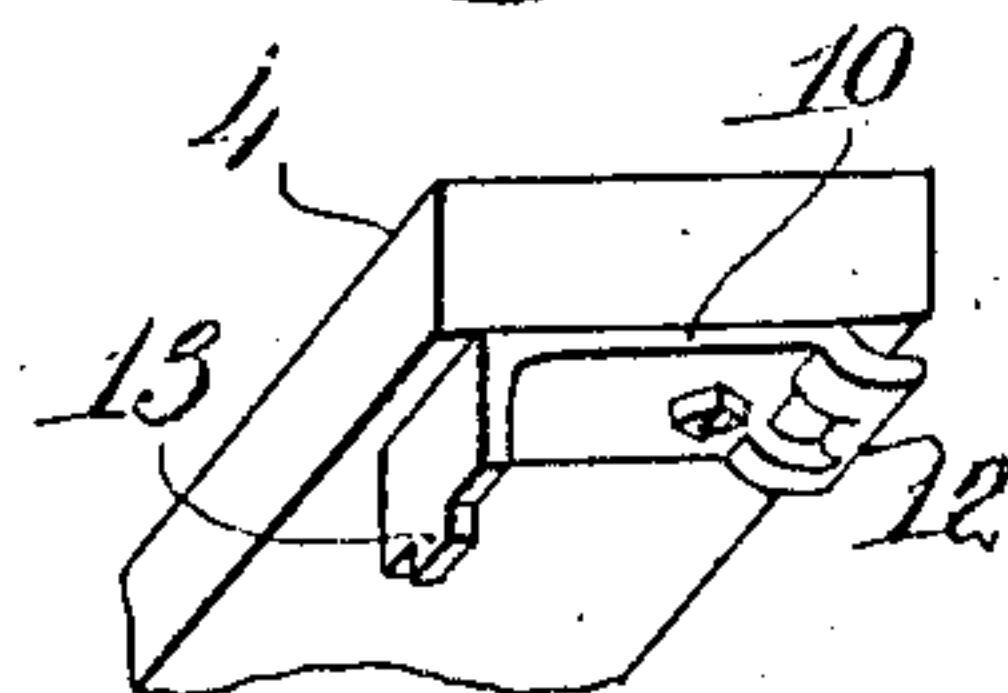
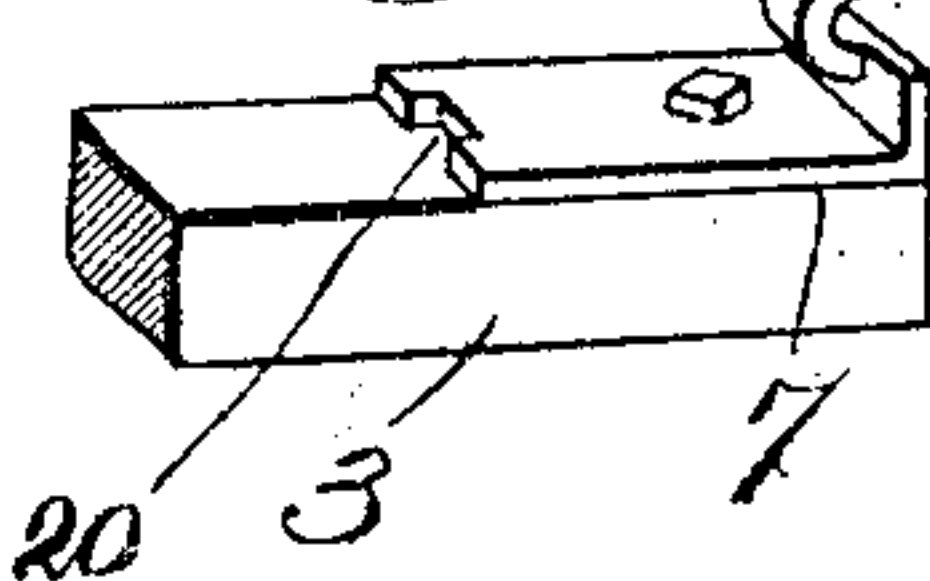


Fig. 4.



Witnesses.

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MATTRESS-FRAME.

No. 844,788.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed April 23, 1906. Serial No. 313,145.

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, Dominion
5 of Canada, have invented an Improvement in Mattress-Frames, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention relates to mattress-frames, and has for its object to provide a mattress-frame and a wire fabric so constructed that the mattress-frame is very easily assembled and the wire fabric strengthened and held
15 from stretching.

The particular features wherein my invention resides will be more fully described and then pointed out in the appended claims.

Figure 1 is a plan view of a mattress-frame
20 embodying my invention, showing the improved wire fabric applied thereto. Fig. 2 is a side view of one of the ends of the mattress-frame. Fig. 3 is a perspective view of the end of one of the side rails, and Fig. 4 is a
25 similar view of the end of one of the end rails.

The mattress-frame comprises side rails 3, end rails 4, and wire fabric 6 of some suitable or usual construction attached at its ends to the end rails. Usually the end rails are
30 placed directly on the side rails and are bolted thereto. This way of assembling the parts requires more or less time and necessitates the use of tools. According to my improvement I permanently secure to each end
35 of each side rail one part of a fastening device and permanently secure to each end of each end rail a complementary part of a fastening device, the two parts of each fastening device being so constructed that the end rail
40 can be instantly secured to the side rail without the necessity of using any tools for this purpose. The fastening device is also so constructed as to space the end rail from the side rail, and thereby lift the wire fabric some
45 distance above the side rails. The wire fabric is strengthened by extending diagonally across it a strengthening-coil of wire which is interlocked with the wire fabric.

Referring again to the drawings, it will be
50 seen that at each end of each end rail 3 is one part 7 of a fastening device, said part having a base portion which rests on the end rail and is secured thereto by some suitable means, as by a bolt 8, and a hook portion 9,
55 which rises from the base portion. The complementary part of the fastening device is

designated by 10, and it comprises a base portion which rests against the under side of the end rail 4 and is secured thereto in any suitable way, as by a bolt 11, said base portion
60 having projecting from one end the eye 12, which is adapted to be placed over the hook 9, and at the other end a strut or spacing member 13, which rests on either the side rail 3 or the part of the fastening device se-
65 cured thereto. As herein shown, the part 7 of the fastening device has a notch 20 in which the end of the strut rests. These two parts of each fastening device are secured to the side and end rails when the latter are
70 made, and in order to set up the mattress-frame and apply the wire fabric thereto, it is simply necessary to hook the eyes 12, carried by each end rail, over the hooks 9 on the two side rails and then swing the end rail down
75 into its position, as shown in full lines in Fig. 2. The wire fabric is then attached to one end rail 4 and is stretched and applied to the other end rail, as usual. When thus attached to the end rails, the fabric is under tension,
80 and such tension serves to securely hold the two parts of each fastening device together and prevents them from being disconnected from each other.

It will be noticed that the pull on the end
85 pieces is in the direction of the arrow *a*, Fig. 2, and as the wire fabric 6 is attached to the upper side of each end piece such tension tends to rock the end piece downwardly about the hook 9 as an axis, and therefore
90 holds the strut 13 firmly against the side rail. The hook 9 has sufficient curve to it to prevent the eye 12 from being disengaged therefrom except by a bodily movement to the right, Fig. 2, and the tension of the fabric is suf-
95 ficient to prevent such movement. Another advantage of this construction is that it serves to separate the end rail and side rails from each other, and thereby carries the wire fabric 6 sufficiently above the side rail so that
100 the weight of a person on the mattress-frame will not depress the fabric below the side rails. My improved fastener, therefore, can take the place of the more expensive constructions by which the wire fabric is elevated
105 above the side rails.

18 designates spiral coils which extend diagonally of the fabric and are coiled into the coils of the fabric 6. It will be noted that the fabric 6 is made of separate transversely-
110 extending coils, and the diagonal coils 18 prevent the separate coils of the fabric 6 from

becoming displaced while the mattress-frame is being shipped and set up. The coils 18 also serve to strengthen and stiffen the fabric 6 and prevent it from stretching.

5 Various changes may be made in the construction of the device without departing from the invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters
10 Patent, is—

1. In a mattress-frame, side rails each having rising from one end a hook member, an end rail having depending from its under side at each end an eye to engage a hook member and
15 a strut to rest on the side rail.

2. In a mattress-frame, side rails and end rails, and a fastening device by which the end rails are detachably secured to the side rails, each fastening device comprising one
20 member secured to the end of the side rail, and having rising therefrom a hook, and a complementary member secured to the under side of the end rail and having an eye to engage the hook and means to space the end
25 rail from the side rail.

3. In a mattress-frame, side rails and end rails, and a fastening device by which the end rails are detachably secured to the side rails, each fastening device comprising one member
30 secured to the end of the side rail, and having rising therefrom a hook, and a complementary member secured to the under side of the end

rail and having an eye to engage the hook, and also a strut to engage the side rail.

4. In a mattress-frame, side rails each hav- 35 ing rising from one end thereof a hook, the point of which is directed toward the end of the side rail, and an end rail having depending from its under side an eye to engage the corresponding hook and a strut to space the
40 end rail from the side rail.

5. A corner-fastening for a mattress-frame, comprising a member secured to the upper side of the side rail and having rising therefrom a hook, and a complementary mem- 45 ber secured to the under side of the end rail and having an eye to engage the hook and a strut to engage the side rail.

6. A corner-fastening for a mattress-frame, comprising a member secured to the
50 upper side of the side rail and having rising therefrom a hook and having a notch and a complementary member secured to the under side of the end rail and having an eye to engage the hook and a strut to engage the side
55 rail, the end of said strut being received in said notch.

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

FRANCIS G. GALE.

Witnesses:

LOUIS C. SMITH,
EMILY C. HODGES.