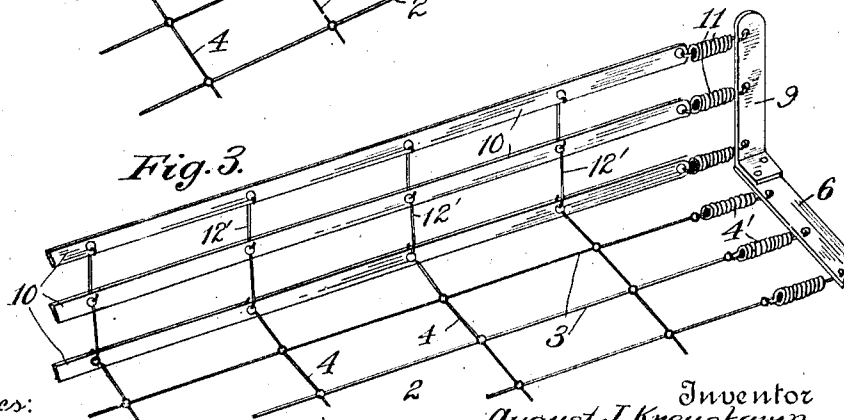
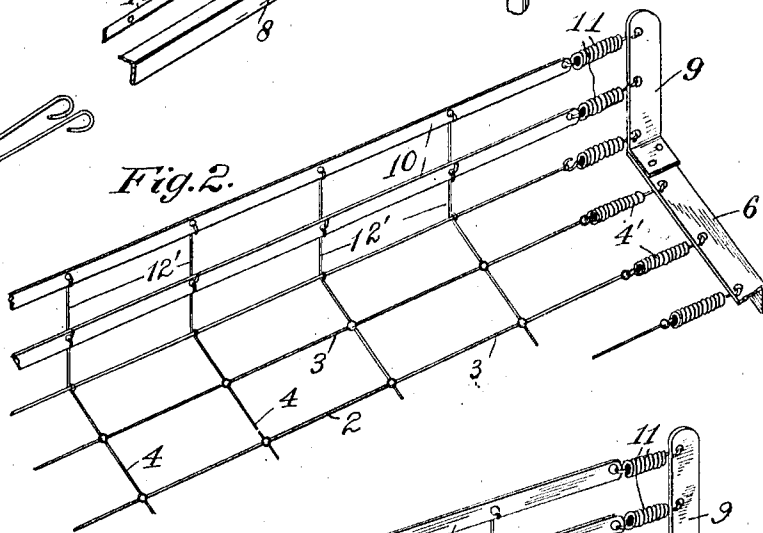
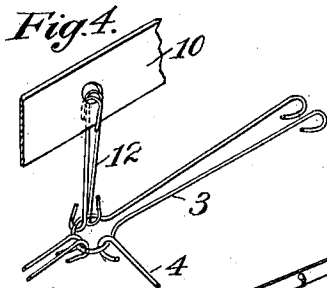
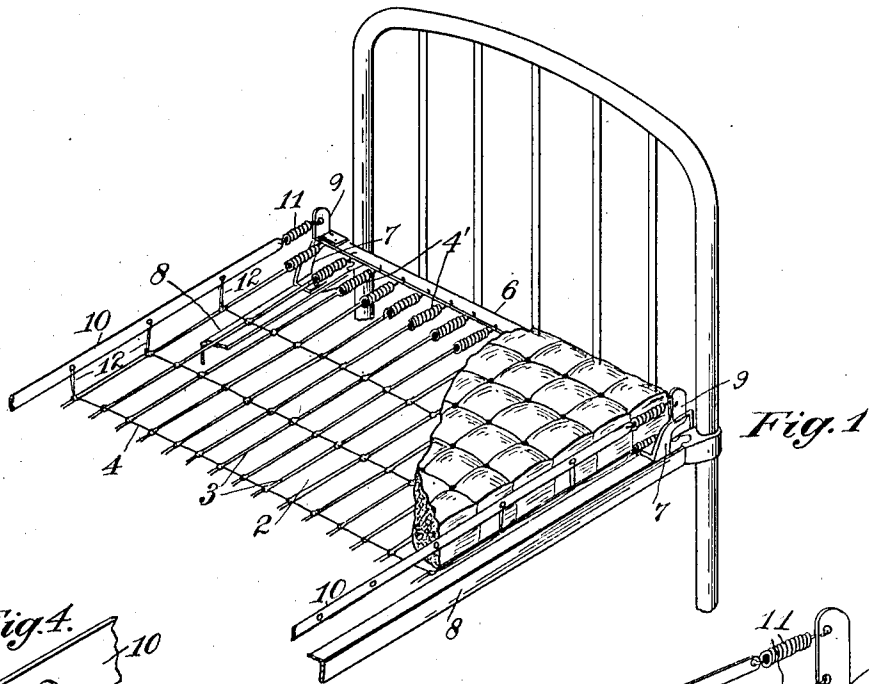


A. J. KREUZKAMP.
SIDE GUARD FOR SPRING MATTRESSES.
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1,061,616.

Patented May 13, 1913.



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SIDE GUARD FOR SPRING-MATTRESSES.

1,061,616.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, AUGUST J. KREUZKAMP, a citizen of the United States, residing at New York, borough of Manhattan, in the county of New York and State of New York, have invented certain new and useful Improvements in Side Guards for Spring-Mattresses, of which the following is a specification.

This invention relates to an improvement in metallic mattresses, the object of the invention being to provide a metallic formed or spring mattress having an improved form of side guard, which will prevent the shifting or spreading of the hair or other stuffed mattress, and the rolling of the edges thereof, and which will maintain the same in position in an effective manner and maintain it in its box-like form.

One of the objections to the metallic or spring mattresses in general use, is that the hair or other stuffed mattress which is placed thereon, shifts from one side to the other, or is so spread in use that its edge rolls over the side edge of the mattress, so that a very unsightly appearance is the result.

The present improvement therefore consists of a wire or metallic mattress, which is provided at each side thereof with an improved longitudinal side guard, and which side guard is comparatively simple in its construction and inexpensive to produce, and is of such form and construction that it will maintain the mattress in its original box-like form, by preventing the side edges thereof from spreading or rolling over the side edges of the mattress.

A practical side guard requires that it be under tension so that it will return to its initial position and take up the slack and keep the stuffed mattress in its original box-like form and prevent it from spreading and rolling over the edges of the spring mattress or bottom and also prevent it from shifting on such bottom; it should preferably be of less height than the stuffed mattress; it must be under considerable tension, and this tension must be constant and, as stated, any slack which occurs must be taken up immediately; it must also be a part of the spring mattress structure so as to be removable therewith and so that while not interfering in any way with the use of the spring mattress in the ordinary

manner in which it is used either to sit upon or to sleep upon it will keep the stuffed mattress in its box-like form and against shifting and spreading, and therefore it must be flexible in order to provide a soft edge at the sides of the mattress and yet this flexibility must not be such as to prevent the side guard from quickly returning to its normal position, and when carried by the mattress or bottom it should be so located that the side edges of the fabric are materially reinforced. In other words, although connected with the bottom so that it will yield therewith when the same is under weight, nevertheless, by reason of its end connections, which are unyieldable with the suspensively supported bottom, they will assist in returning the bottom along its side edges to its normal position and to a material extent assist in preventing the sagging thereof. Moreover, it is desirable that the connections between the longitudinally extending member or members making up the side guard shall be such that a different tension can be given to the side guard from that which is given to the bottom.

The present improvement may be used with any form of metallic mattress to which it may be desired to connect the side guard, but in the form shown it is connected with a mattress made up of bent longitudinally extending wires connected or coupled together by transversely extending wires, the two sets of wires comprising links connected together to form the fabric.

In the drawings accompanying and forming part of this specification Figure 1 is a perspective view of one end of a bedstead illustrating this improved mattress and its side guard; Fig. 2 is a perspective view of a portion thereof illustrating a somewhat different form of side guard; Fig. 3 is a perspective view of a portion of a mattress illustrating a still different form of side guard, and Fig. 4 is a detail view illustrating one manner of connecting the edge of the mattress to a part of the side guard illustrated in Fig. 1.

Similar characters of reference indicate corresponding parts throughout the figures of the drawings.

The spring mattress 2, which as hereinbefore stated may be of any suitable form, is shown made up of links or wires 3 ex-

tending lengthwise of the mattress and connected at intervals by transverse wires or members 4, thus forming a metallic fabric or bed bottom shown connected at each end by a series of coiled or helical springs 4 to a transverse member or bar 6 attached by suitable brackets 7 to suitable side bars 8 forming a part of the framework for the mattress bottom. Secured to these transverse members or bars, one at each end thereof, are upright lugs or projections 9 for the attachment of the side guards, each of these side guards in the present instance comprising one or more longitudinal metal strips 10, having its ends connected by coiled springs 11 with the upstanding projections carried by the transverse bars, whereby the side guard is maintained under longitudinal tension.

In the form shown in Fig. 1, the side guard is made of a single metal strip connected to the fabric by a series of connecting wires or members 12, which may be hooked into openings of the strip and into the wire links of the bottom in the manner shown in Fig. 4 or in any other suitable manner.

In the form shown in Figs. 2 and 3, in which the side guards are made of a plurality of longitudinally extending strips, these strips are connected together and to the bottom by similarly formed links or wires 12'. In practice the side guards will be of somewhat less height than the height of the stuffed mattress, when in its manufactured condition, so that when the mattress is compressed in use the side guard will not project above the plane of the mattress. By connecting the strips with each other and with the bottom by wires it will be observed that the tension imparted to each strip does not necessarily have to be the same as that imparted to its companion strips, or the same as that under which the bottom may be stretched, since the connecting wires will permit lengthwise movement of the strips relatively to each other and relatively to the bottom, this also being facilitated by the openings in the strip, which are somewhat larger than the diameter of the connecting wires. In consequence the bottom may be stretched under one tension and the side guards under a different tension.

In the present improvement it will be

observed that the longitudinally extending members are in the form of flat metal strips connected with each other where two or more thereof are provided and connected to the bottom in such a manner that they will yield and move to a certain extent with the bottom when the same is under weight, but by reason of the fact that each longitudinally extending member is connected with an upright projection or lug 9, which does not move with the fabric of the bottom, it follows that the side edges of the mattress are reinforced and the tendency of the same to sag when under weight is to a large extent overcome and that when flexed under weight such side edges of the bottom will be returned to their normal position by reason of the fact that each longitudinally extending strip is under considerable tension.

I claim as my invention:

1. A metallic formed mattress comprising a spring bottom, lugs secured one adjacent to each corner thereof and unyieldable with the bottom, a yielding and flexible side guard at each side of the bottom and comprising one or more lengthwise extending flat metal strips set edgewise to the bottom and connected at the ends with said lugs and provided at close intervals with openings along the same, and a pair of hook formed wires extending into each of said openings and connecting the strip or strips with the bottom, the hooks of said wires extending in opposite directions.

2. A spring mattress comprising a pair of transverse members, a bottom supported therebetween and having each side edge thereof provided with openings, a yielding side guard carried by the bottom at each side thereof, each of said side guards comprising an inelastic and an elastic member, the inelastic member consisting of one or more flat metal strips extending lengthwise of and edgewise to said bottom, lugs secured to such transverse members, one adjacent to each corner of the bottom and unyieldable with such bottom, each of such flat metal strips having openings located at intervals along the same, and hook formed wires extending into such openings and hooked into the aforesaid openings of the bottom.

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