

984,938.

Fig. 1.

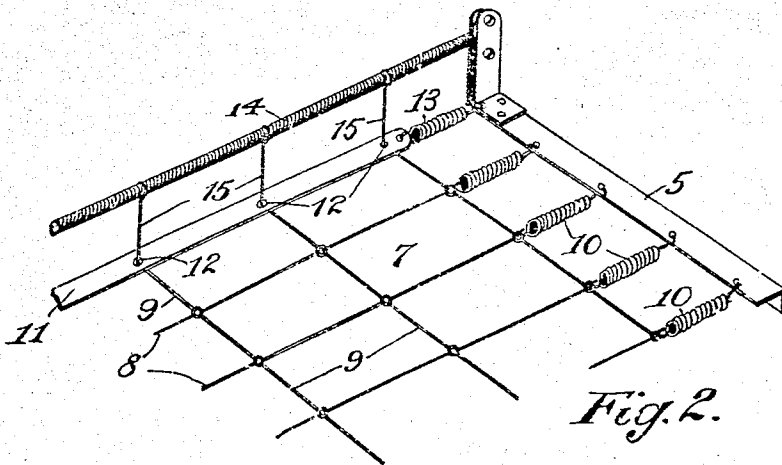


Fig. 2.

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UNITED STATES PATENT OFFICE.

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SIDE GUARD FOR SPRING-MATTRESSES.

984,938.

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.

10 This invention relates to metallic or spring mattresses, and more particularly to side guards therefor, the object of the invention being to provide an improved metallic or spring mattress having an improved side guard effective to prevent the spreading of the stuffed mattress and the rolling of the edges thereof over the sides of the mattress, and which side guard will be comparatively simple in construction and inexpensive to manufacture.

20 In the drawings accompanying and forming part of this specification, Figure 1 is a perspective view of a portion of a bedstead, showing one end of this improved mattress in position thereon; and Fig. 2 is an enlarged perspective view of a portion of said mattress.

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

30 The metallic or spring mattress frame usually comprises a pair of side bars 2 and 3, having attached thereto corner brackets 4, to each pair of which is secured a transversely extending or cross bar 5 having upright projections or lugs 6, one at each end thereof. To these transversely extending or cross bars are secured the metallic mattress or bed bottom 7, which may be of any suitable construction, it being shown made up of longitudinally extending members or links 8 connected by transversely extending members or links 9, thus forming a metallic fabric. The ends of the fabric are connected 45 by suitable helical or coiled springs 10 with the transversely extending bars 5, thereby to hold the bottom under tension.

50 Extending along each side edge of the fabric bottom is a lengthwise extending metal strip 11, to which the outer set of transversely extending members or links is connected, preferably by being hooked into openings 12 formed in such strip. Each end of this strip is connected by a coiled spring 55 13 with the transversely extending bars at

the ends of the fabric, the strips thus lying flat in the same plane as the fabric bottom and forming a part thereof. Located above the strip and connected with the upstanding projections of the transverse bars is a suitable cable 14, which may be of any desired form. In the structure shown in Fig. 1 this cable is connected to the upstanding projections by means of coiled springs, while in the form shown in Fig. 2 it is clamped to the upstanding projections. In both forms thereof the cable is normally under tension, whereby it will automatically take up any slack, it being stretched under tension in the form shown in Fig. 2 and being held under tension in the form shown in Fig. 1 by the coiled springs.

To prevent the sides of the mattress from spreading or being pushed through underneath the cable when the structure is in use, each cable is connected with its flat metal strip below the same by a series of upright members or wires 15 secured to the cable in any suitable manner, as by being bent around the same, and to the strip in any suitable manner, as by being passed through the openings 12 therein and headed on the underside, or if preferred, these upright members could form a part or continuation of the outer row of transverse links 9.

In practice the side guard will be slightly lower than the height of the stuffed mattress, so that when the latter is compressed the upper edge of the guard will not come above the plane of the stuffed mattress.

It will be observed that in Fig. 1 the cables are provided with helical springs at their ends for imparting tension thereto, while the strips or lengthwise extending members below such cables are also provided with independent helical springs at their ends for imparting tension thereto, and that in Fig. 2 the cable is stretched under tension while the strips or lengthwise extending members therebelow have helical springs for imparting lengthwise tension thereto. By reason of the different formation of the lengthwise extending members, one comprising a cable and the other a strip, it may be necessary that each have a different tension imparted thereto, and the flexible connecting members 15 will not interfere with this. Moreover the openings in the strip, which are larger than the flexible connecting members 15 will also permit this.

I claim as my invention:

1. A spring mattress comprising a bottom stretched under tension, said bottom having at each side edge thereof a flat metal strip, and a member extending along each longitudinal edge of the bottom and connected to said metal strip and forming a side guard for the mattress.
2. A spring mattress for a bed comprising a bottom stretched under tension and side guards carried thereby one at each side thereof each comprising a cable stretched under tension and a longitudinally extending member running lengthwise of the spring mattress and cable one under the other and connected at intervals with the cable, and means for imparting an independent tension to said longitudinally extending member from that which is imparted to the cable.
3. A spring mattress comprising a bottom and side guards carried thereby, one at each side thereof, each comprising a cable, and a flat metal strip running lengthwise of the spring mattress and cable and one under the other and connected at intervals.
4. A spring mattress for a bed comprising a bottom stretched under tension and side guards carried thereby one at each side thereof each comprising a pair of lengthwise extending members spaced apart one under the other and connected at intervals, and independent tensioning means for one or both of said lengthwise extending side guard members whereby the tension imparted to one of the members may be different from that imparted to the other.
5. A spring mattress comprising a bottom and side guards carried thereby, one at each side thereof, each comprising a cable and a flat metal strip running lengthwise of the spring mattress and cable and one under the other and connected at intervals, the strip being located in a plane substantially parallel with the bottom.
6. A spring mattress for a bed comprising a bottom made up of longitudinally extending and transversely extending members and side guards carried thereby, each comprising a lengthwise extending member connected adjacent to each corner of the spring bottom and a series of upright members connecting such member with the bottom, one adjacent to each transverse member thereof whereby the side guard and bottom will move in unison throughout the length of such guard, and helical springs for imparting longitudinal tension to the side guards.
7. A spring mattress comprising a bottom made up of longitudinally and transversely extending members and side guards carried thereby, each comprising a lengthwise extending member connected adjacent to each corner of the spring bottom, a series of upright members connecting such member with

the bottom, one adjacent to each transverse member of such bottom and a flat metal strip located adjacent to the juncture point of said upright members and transversely extending members of the bottom and with which each of such members has connection.

8. A spring mattress comprising a bottom made up of lengthwise and transversely extending members and side guards carried thereby, each comprising a lengthwise extending member and upright members located at intervals connecting such lengthwise extending member and the bottom, means for connecting each lengthwise extending member adjacent a corner of the bottom, each of said upright members being located in alignment with and forming a part of the outer row of transverse members forming the bottom.

9. A metallic mattress comprising a bottom and transverse members to which it is connected, said bottom having at each side edge thereof a flat metal strip also connected to said transverse members, and a side guard extending along each longitudinal edge of the bottom and connected with said metal strip.

10. A metallic mattress comprising a bottom and transverse members to which it is connected, said bottom having at each side edge thereof a flat metal strip also connected to said transverse members, and a side guard extending along each longitudinal edge of the bottom and connected with said metal strip and comprising a cable connected at intervals with said strip, and upstanding projections to which the ends of said cable are attached.

11. A metallic mattress comprising a bottom and transverse members to which it is connected, said bottom having at each side edge thereof a flat metal strip also connected to said transverse members, a side guard extending along each longitudinal edge of the bottom and connected with said metal strip and comprising a cable connected at intervals with said strip, upstanding projections to which the ends of said cable are attached, and coiled springs for connecting the metal strip with the transverse members.

12. A metallic mattress comprising a bottom and transverse members to which it is connected, said bottom having at each side edge thereof a flat metal strip also connected to said transverse members, a side guard extending along each longitudinal edge of the bottom and connected with said metal strip and comprising a cable connected at intervals with said strip, upstanding projections to which the ends of said cable are attached, coiled springs for connecting the metal strip with the transverse members, and coiled springs connecting the cable with the upstanding projections.

13. A metallic mattress comprising a bot-

tom made up of a metallic fabric and transverse members having coiled springs therebetween, said bottom having at each longitudinal edge a flat metal strip, coiled springs connecting the ends of said strip with the transverse members, upstanding projections carried by said transverse members one at each end thereof, and side guards each comprising a cable stretched between said upstanding projections, and wires connecting said cable with said flat metal strip.

14. A metallic mattress comprising a bottom made up of a metallic fabric and transverse members having coiled springs therebetween, said bottom having at each longitudinal edge a flat metal strip, coiled springs connecting the ends of said strip with the transverse members, upstanding projections carried by said transverse members one at each end thereof, side guards each comprising a cable stretched between said upstanding projections and wires connecting said cable with said flat metal strip and located

at intervals along the cable one adjacent to a transverse wire of the bottom, and coiled springs connected with the cable for imparting tension thereto.

15. A spring mattress comprising a bottom made up of lengthwise and transversely extending members and side guards carried thereby, each comprising a lengthwise extending member and upright members located at intervals connecting such lengthwise extending member and the bottom, means for connecting each lengthwise extending member adjacent a corner of the bottom, each of said upright members being located in alinement with and forming a part of the outer row of transverse members forming the bottom, and helical springs connected with said lengthwise extending members for imparting tension thereto.

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