(No Model.)

M. STRAUSS.

SEAT OR CUSHION.

No. 547,690. Patented Oct. 8, 1895.

Fig. 1,

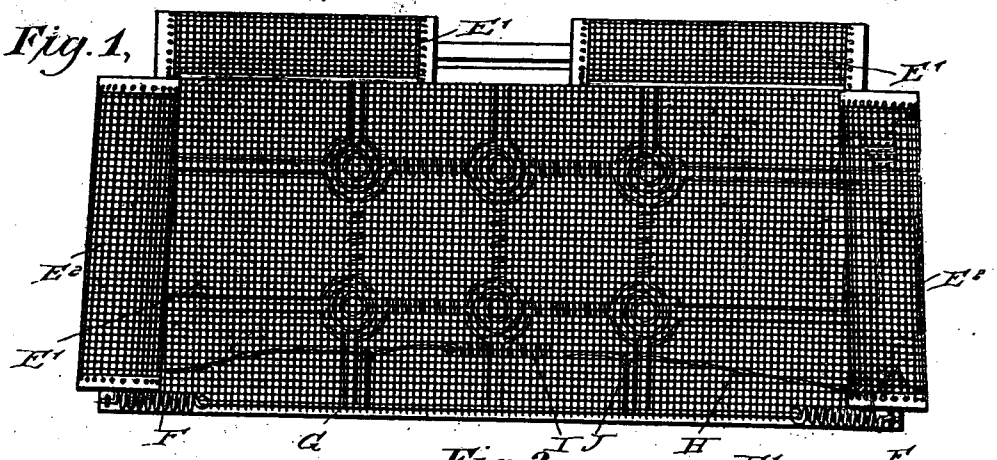


Fig. 2,

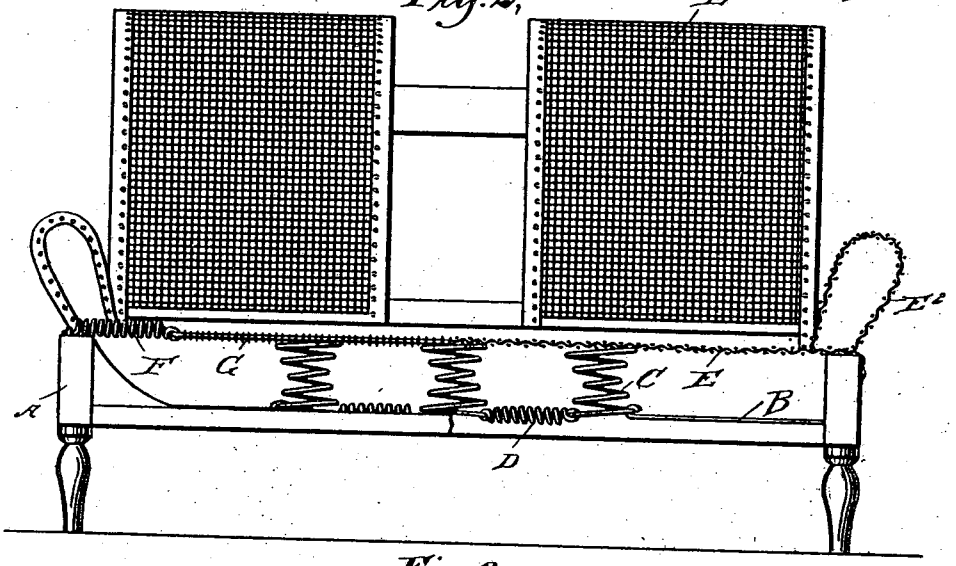
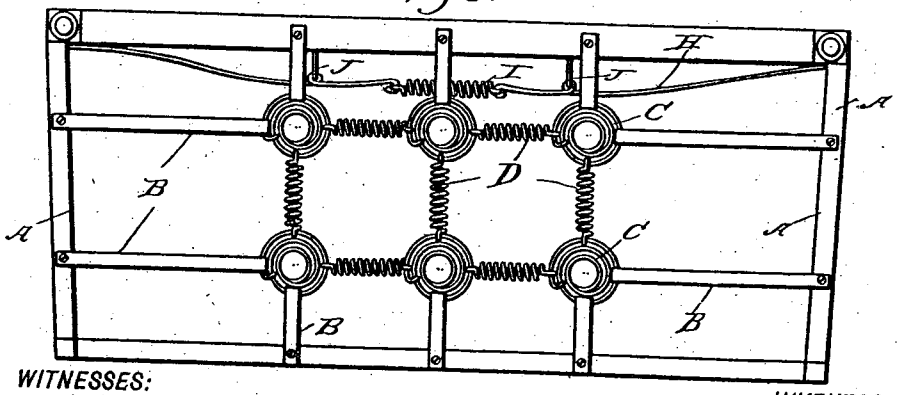


Fig. 3.



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MORRIS STRAUSS, OF NEW YORK, N. Y.

SEAT OR CUSHION.

SPECIFICATION forming part of Letters Patent No. 547,690, dated October 8, 1895.

Application filed June 8, 1895. Serial No. 552,113. (No model.)

To all whom it may concern:

Be it known that I, MORRIS STRAUSS, a subject of the Czar of Russia, at present residing in New York, in the county and State of New York, have invented certain new and useful Improvements in Seats or Cushions, of which the following is a full, clear, and exact description.

My invention relates to an improved construction whereby seats or cushions may be upholstered more readily and cheaply than with the arrangement of parts hitherto employed.

The invention consists in the particular construction and arrangement of parts, as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view showing a sofa constructed according to my improvement and ready to be upholstered. Fig. 2 is a front elevation thereof with parts in section, and Fig. 3 is a bottom plan view thereof.

As illustrated in the drawings, the sofa or other article of furniture has a frame A, which may be of substantially the usual construction, and to the sides of this frame and at the bottom thereof I secure metal bands B, which preferably extend in two directions at right angles to each other, the said bands at their inner ends being bent up to form hooks or eyes, as will be seen best in Fig. 2. The inner ends of the bands B are engaged with the lower convolutions of spiral or coiled supporting-springs C, and these springs are also connected with one another my means of horizontally-disposed coiled springs D, whose ends are engaged with the lower convolutions of the upright coiled springs C in a similar manner to the inner ends of the bands B. Thus in the example shown the rear coiled spring C is held at four points at its bottom, and, moreover, there is a yielding or elastic finish between all the said coiled springs C. The upper ends of the coiled springs C are connected to the woven-wire support E, which is secured at its edges to the upper end of the frame A, with the exception of its front edge.

In order to properly hold the front edge of the woven-wire support E, I provide horizontal coiled springs F, secured to the sides of the frame A and extending along the edge of the said wire-support. The inner ends of the springs F are connected by means of a rod or wire G. As a further means of strengthening the front edge I provide on the lower surface of the wire-support E two wires H, extending longitudinally and slightly rearwardly from the front edges of the frame A and connected at their center by a horizontally-coiled spring I. The wires H intermediate of the spring I and frame A have connections J extending forwardly and secured to the free edge of the wire-support E. (See Fig. 1.) The back and the arms of the sofa may likewise be provided with a woven-wire support E′ and E², respectively, it being understood that the ordinary upholstery is stitched or secured to the said wire-support in substantially the same manner in which it is now secured to the spiral supporting-springs.

It will be understood that in an article of furniture having no back proper—that is, an article having two free edges instead of one, the arrangement of the springs F and I and of the wires G and H will be duplicated at such free edges, and separate illustration of such duplicate arrangement is not deemed necessary.

It will be seen that the improved construction affords a very regular surface for the attachment of the burlap which forms a part of the upholstery; also that the connection of the coiled supporting-springs C is a very strong and elastic one, and also that the said connection is such that any one of the springs C may be detached separately and replaced with a new one, if necessary, without any necessity of undoing any other connections but those which serve to fasten the particular spring it is desired to remove. The new elastic support for the free edge also is of very great practical advantage, since with such arrangement of parts either edge will always remain horizontal, and thus a good appearance of the article will be preserved.

It will be obvious that the hereinbefore described constructions are applicable to seats

and cushions of every description, and that the invention is not limited to the exact construction shown.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a seat or cushion, the combination of a frame, bands extending inwardly therefrom, coiled supporting springs connected to the bands, an upholstery support on top of the said springs, and coiled springs connecting the lower convolutions of the said supporting springs, substantially as described.

2. The combination of a frame, the upholstery support, the supporting-springs engaging said support from below, means for connecting the lower ends of said springs to the frame, and horizontally disposed coiled springs connecting the lower convolutions of the said supporting springs, substantially as described.

3. The combination of a frame, the woven wire upholstery support coiled supporting springs engaging the support yielding supports for the frame projecting inwardly from the frame, and coiled springs connecting the lower portions of the said supporting springs, substantially as described.

4. The combination with a frame, the upholstery support, and a yielding support for the front edge of the upholstery support, of an auxiliary yielding support in the rear of the front edge of the upholstery support and connected therewith, said auxiliary support, comprising wires connected by a spring, substantially as described.

5. The combination of the frame, the upholstery support, the wires extending longitudinally under the said support and toward the edge thereof, the coiled springs connecting the inner ends of the said wires, and connections extending forwardly from the wires to the free edge of the upholstery support, substantially as described.

6. The combination of the frame, the upholstery support having a free or loose edge, the spring extending longitudinally of the said free edge and secured to the frame, a connection between the inner ends of the said spring, said connection being in engagement with the free edge of the support, the wires arranged under the support longitudinally thereof, the coiled spring connecting the inner ends of the wires, and connections from the wires extending forwardly to the free edge of the upholstery support, substantially as described.

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