May 7, 1940. J. P. RILEY 2,200,011

MATTRESS

Filed Dec. 27, 1937

Fig. 1.

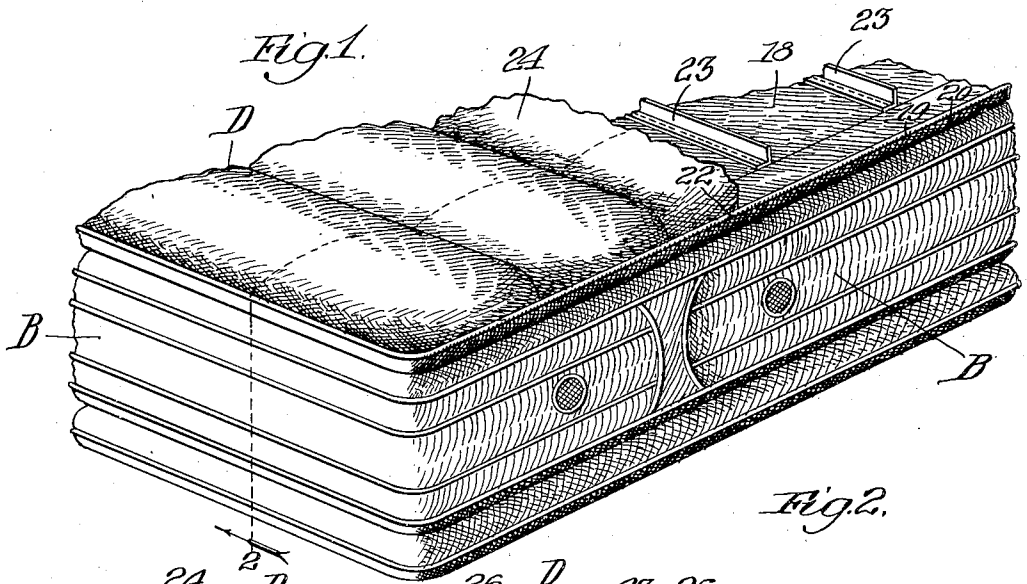


Fig. 2.

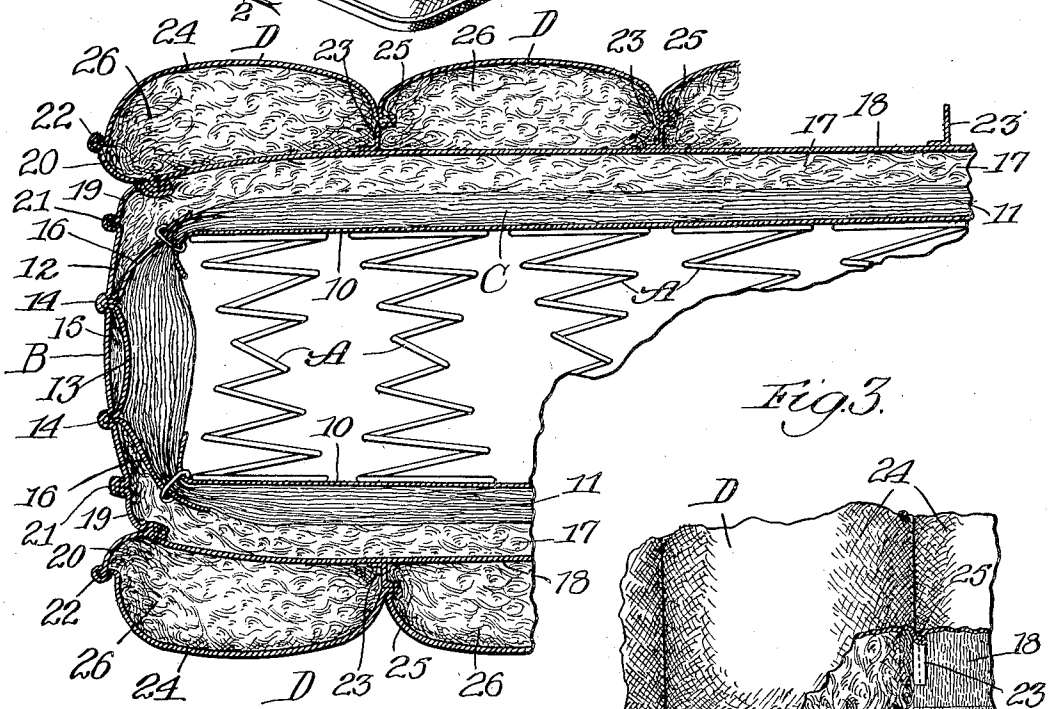


Fig. 3.

Inventor:
John P. Riley,
By Chritton, Wiles, Davies, Kirschbaum & Dawson,
Attys.

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MATTRESS

John P. Riley, Chicago, Ill., assignor to S. Karpen & Bros., Chicago, Ill., a corporation of Illinois

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2 Claims. (Cl. 5—351)

This invention relates to a mattress and more particularly to a tuftless mattress.

An object of the invention is to provide a mattress in which tufting, which forms depressions throughout the mattress, is avoided while at the same time a uniform, sturdy and extremely comfortable mattress structure is obtained. A further object is to provide simple and expeditious means and method by which a mattress having the new characteristics of the present design is formed. Other specific objects and advantages will appear as the specification proceeds.

The invention is illustrated, in a preferred embodiment, by the accompanying drawing, in which—

Figure 1 is a broken perspective view of a mattress embodying my invention; Fig. 2, a broken sectional view, the section being taken as indicated at line 2 of Fig. 1; and Fig. 3, a broken plan view of a portion of the mattress, certain parts being broken away to show the structure.

In the illustration given, A designates the inner spring structure; B, the border; C, the filling structure; and D, the pillow portion of the mattress.

The structure A is of a well-known construction and no novelty therefor is claimed herein. Over the springs, fabric sheets 10 extend, as shown more clearly in Fig. 2. I also prefer to apply a relatively strong layer 11 of material, such as, for example, sisal over the sheeting 10 and also along the sides of the spring structure.

The border B may be pre-built or not as desired, and it may be of any suitable construction. In the illustration given, I provide an outer fabric member 12 to which is secured an inner lining 13, the inner lining being stitched to the fabric 12 at the points indicated by the numeral 14, and between points 14 a padding material 15 is enclosed between the two lining members 12 and 13. The lining member 13 has tie extensions 16 which are stitched to the fabric members 10, the stitching also extending through the sisal layer 11.

The filling material C includes not only the sisal or other material designated by the numeral 11 but also an upper layer of cotton or other soft material 17.

On the upper side of the soft filling layer 17, I place sheets 18 which are preferably folded back at their ends and then stitched to the forked tying strips 19 and 20 which extend entirely around the sheets 18. The tying strip 19 is stitched to the border lining 12 at 21, the two edges being brought together to form a taut connection, thus stretching the sheet 18 over the filling material 17. The outer tie flap 20 is adapted to be stitched to the pillow structure at 22.

In actual operation, I prefer to pre-form the sheet with the diverging border strips 19 and 20 stitched thereto. At the same time, I equip the top of the sheet 18 with regular spaced dividers 23 formed of cloth or other suitable material and stitched, as shown, to the fabric 18. Also, I place a top ticking material 24 for forming the top pillow surface over the sheet 18 and stitch the same thereto in the manner illustrated in Fig. 2, the tie flap 20, however, on one side being left open. It will be observed that the fabric 24 is folded upon itself at the points indicated by the numeral 25 and there stitched to the divider 23.

In building the mattress, after the spring structure has been enclosed by the sheets 10 and the sisal layer placed thereon and then the border secured as described, I next place the filling layer 17 in the position illustrated and enclose it with the two prefabricated pillow members, the pre-fabricated members including the sheets 18, tie members 19 and 20, dividers 23, and the outer member 24. The inner tie members 19 are secured to the border so as to enclose the main body of the mattress and to secure the sheets 18 tautly thereabout. As already stated, the tie member 20 is left unsecured along one side of the mattress so that the pleats for receiving the pillow cushioning material 26 may be inserted. I have found that by following this procedure, the pleats can be readily filled uniformly by inserting pads of soft filling material therein. At the same time, the pleats are held uniformly in position by the divider strips so that the mattress retains its shape and it is unnecessary to employ tufting. After the pleats have been stuffed with the material 26, the tie strip 21 on the open side is sewed to the member 24 to complete the structure.

While pleats have heretofore been employed in cushions, they have not been believed feasible for large constructions, such as mattresses, and they have not been believed to be effective as a substitute for tufting. I have discovered that with the construction shown, the pillow pleat structure is effective in retaining the mattress in compact, sturdy form while at the same time providing a soft outer surface which yields separately from the mattress and insures much greater comfort.

While in the foregoing description, I have set forth certain specific details in describing the structure illustrated, it will be understood that such details may be modified widely without departing from the spirit of my invention.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

I claim:

1. A mattress comprising: a spring structure enclosed in a blanket of filling material, a casing sheet extending over said filling material on each side of said mattress, dividers stitched to said sheet on each side of said mattress and extending thereacross, filling material between said dividers, and a top and bottom ticking enclosing the filling material between said dividers, said ticking being provided with pleats and being secured to the top portions of said dividers at the recessed portions of said pleats.

2. A mattress comprising: a spring structure enclosed in a blanket of filling material, a casing border strip about the edge of said spring structure, a casing sheet extending over said filling material on each side of said mattress, dividers stitched to each of said sheets and extending thereacross, filling material between said dividers, and a top and bottom ticking enclosing the filling material between said dividers, said ticking being provided with pleats and being stitched to the top portions of said dividers at the recessed portions of said pleats, the seams securing said dividers to said pleats being suspended within said mattress intermediate of the casing sheets and the farthest outwardly projecting portions of the surface of said ticking, said casing sheets and tickings having their edge portions secured to said casing borders.

JOHN P. RILEY.