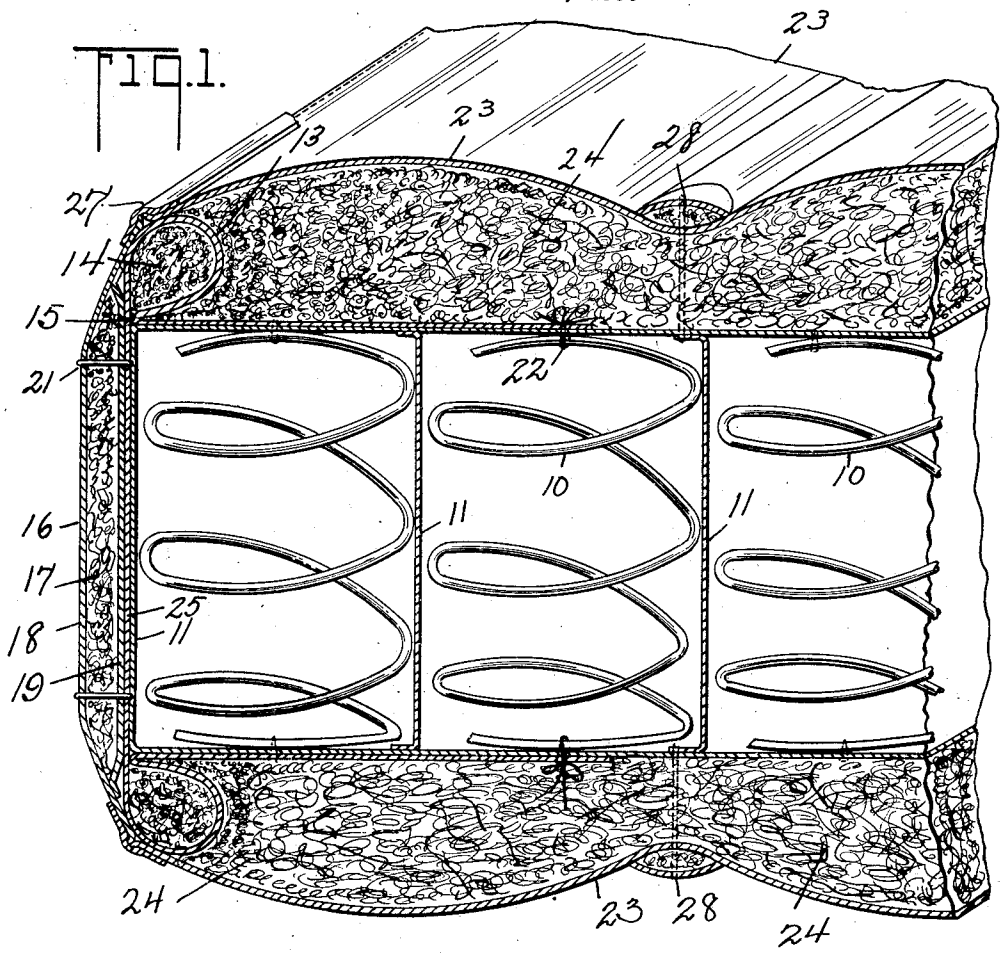
May 2, 1933. F. J. WILL ET AL 1,906,686

MATTRESS CONSTRUCTION

Filed Dec. 12, 1930

Fig. 1.



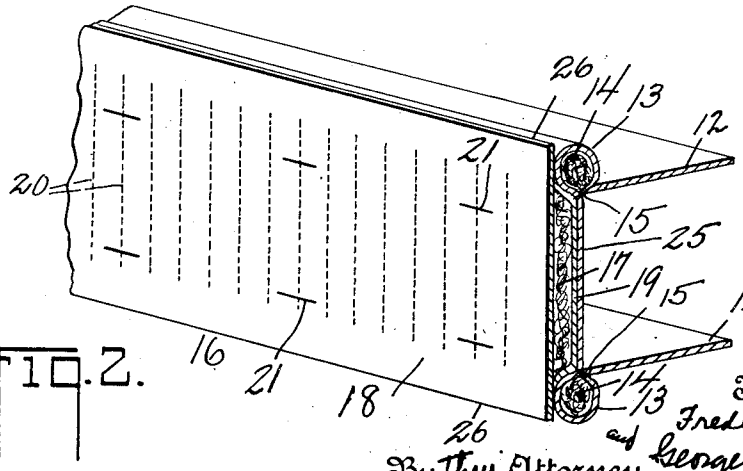


Fig. 2.

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UNITED STATES PATENT OFFICE

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MATTRESS CONSTRUCTION

Application filed December 12, 1930. Serial No. 501,754.

This invention relates to an improved mattress construction of the spring type and to the method of constructing the mattress. The mattress is of the kind that is made up of a series of coil springs arranged side by side and our improvement comprises a border and roll construction to strengthen the corners of the mattress to form a smooth edge construction. The object of the invention is, furthermore, to furnish a mattress at a reasonable cost of manufacture and that can be assembled in a relatively short time.

In the drawing which accompanies this specification Figure 1 is a perspective section of part of a mattress showing the assembled parts when the mattress is completed. Figure 2 is a perspective sectional view of the shoe and the border attached thereto before these parts are secured to the mattress.

The main or body portion of the mattress comprises a series of coil springs 10 which are usually placed in pockets or casings 11 and closely assembled to provide the main resiliency of the spring mattress.

Extending around the mattress at its sides and ends is a shoe. This shoe consists of a strip 25 of canvas or similar material which strip is looped to form rolls 13 which are stuffed with a felt or similar filling 14. The shoe then extends to form flaps 12 and 12^a which flaps extend to the same side and extend far enough to enable them to be secured to at least the second row of springs 10. The rolls are shown closed by the stitching 15.

The shoe also includes a border 16 having a filling 17 of cotton, felt or the like. The border comprises an outer strip 18 and an inner strip 19 and preferably stitched as at 20 to keep the filling in place. The border is secured to the outside of the shoe by stitching or by staples 21 to form the unitary shoe edge piece shown in Figure 2. The distance between the flaps 12 and 12^a can be made to fit the various heights of mattress bodies and they are broad enough to allow them to be attached to the coil springs inside the outer or marginal row of springs. This is generally done by tieing the strip flaps to the coil spring of the second row from the edge as at 22.

When the shoe has been securely attached to the spring body portion of the mattress the cover or ticking 23 on the top and bottom is attached over the padding or filling 24 of cotton, felt, hair or other material. The edge of the cover 23 is stitched to the edge 26 of the strip 18 of the border 16. The edge 26 extends up far enough beyond the roll 13 to provide material for stitching and pulling on the border.

This sewing is usually done on a standard mattress sewing machine. When the cover 23 is pulled over it pulls the roll 13 over on the top edge of the mattress within the outer dimensions thereof and over the outer or end row of springs 10 as shown in Figure 1. The tape 27 is usually attached for re-inforcement and improved appearance.

A mattress made in this way is quickly made, provides a roll for stiffening the corners and at the same time provides a smooth rounded corner on the article. The usual tufting 28 is accomplished after the cover is in place.

The border 16 can be formed without the filling 17 if desired in which case the inner strip 19 can be omitted. The border strip 18 projects beyond the edges of the rolls 13 far enough to allow it to be grasped and pulled over for attachment to the edge of the cover.

We claim:

1. A mattress comprising rows of coil springs, a shoe extending around the sides of the mattress, said shoe comprising a strip having stuffed rolls at the marginal edges of the mattress and having flaps extending inwardly and secured to springs within the outer or marginal rows, a stuffed border secured to the outer face of the shoe and extending at its top and bottom beyond the stuffed rolls, a filling on the springs and a cover secured to the top and bottom edges of the border and under tension to cause the stuffed rolls to lie on the outer rows of springs whereby said rolls guard said cover

from contact with the springs and prevent said filling from moving toward the marginal edges of the mattress.

2. As an article of manufacture, a shoe for the marginal sides of mattresses comprising a strip of fabric formed into spaced parallel rolls, a filling in the rolls, the edges of the strip extending beyond and on one side of both rolls to provide attaching means for attaching the shoe to a spring unit, and a border comprising a strip of fabric secured to the shoe and having its edges extending free alongside the rolls to the other side thereof whereby the shoe and its border can be attached at the same time to the spring unit with the edges of the border in position for attachment to a cover.

3. As an article of manufacture, a shoe for the marginal sides of mattresses comprising a strip of fabric, stuffed rolls secured to the fabric, the edges of the fabric extending beyond the rolls to provide means for attaching the shoe to the upper and lower surfaces of a spring unit, the shoe including a border covering the outer side of the strip and the rolls and extending beyond the rolls for attachment to a cover.

In testimony whereof they affix their signatures.

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GEORGE GROSSHANS.