Oct. 27, 1931. C. H. VAN TASSEL 1,829,620

MATTRESS

Filed Sept. 12, 1928 2 Sheets-Sheet 1

Fig. 1.

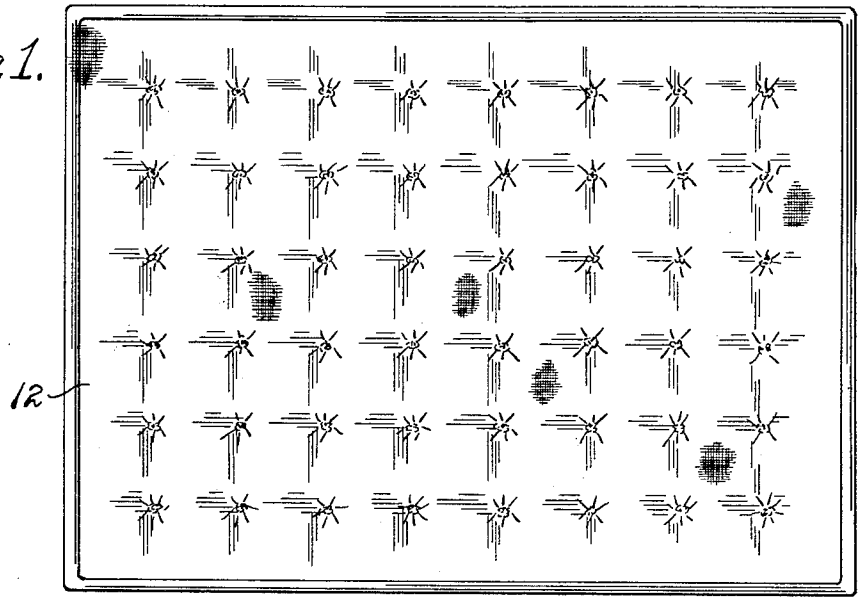
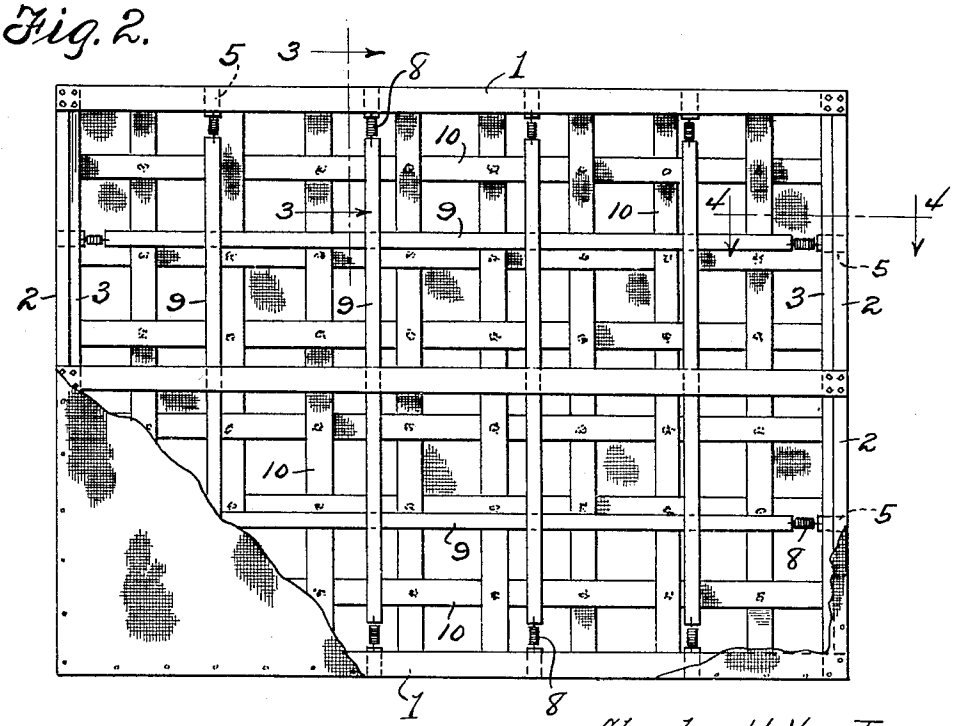


Fig. 2.



Charles H. Van Tassel
INVENTOR

BY Victor J. Evans
ATTORNEY

WITNESS: John Donovan

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Filed Sept. 12, 1928 2 Sheets-Sheet 2

Fig. 3.

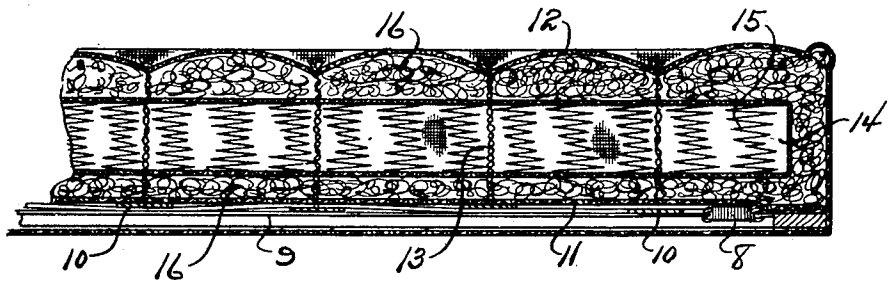


Fig. 4.

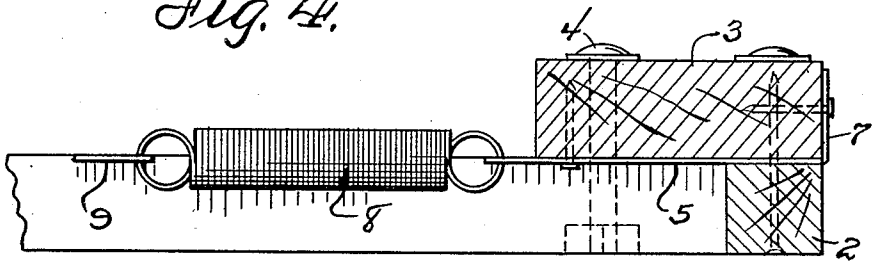
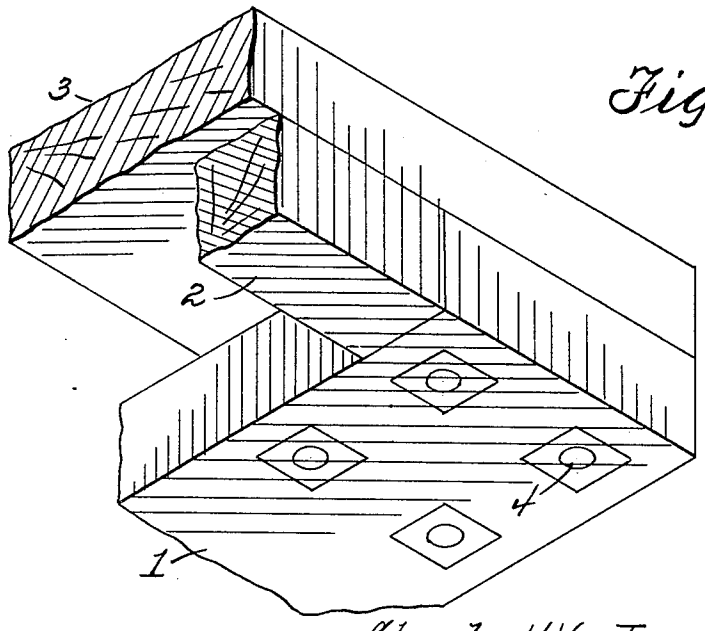


Fig. 5.



Charles H. Van Tassel INVENTOR

BY Victor J. Evans

ATTORNEY

WITNESS John Donovan

Patented Oct. 27, 1931

1,829,620

UNITED STATES PATENT OFFICE

CHARLES H. VAN TASSEL, OF PHILADELPHIA, PENNSYLVANIA

MATTRESS

Application filed September 12, 1928. Serial No. 305,498.

The object of this, my present invention, is the provision of a combined mattress and bed spring, that is, of a mattress constructed in a particular and peculiar manner and which has arranged in a suitable compartment therein, bed springs, in combination with a supporting frame for the mattress, yieldable elements associated with the frame and supporting the bottom of the mattress proper, with the result that a soft yieldable mattress is provided which will yield to the weight of the occupants thereon and which will return to its initial position when unoccupied.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawings which form part of the application, with the understanding, however, that the improvement is capable of extended application and is not confined to the exact showing of the drawings nor to the precise construction described and, therefore, such changes and modifications may be made therefrom as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

In the drawings:

Figure 1 is a top plan view of a mattress in accordance with this invention.

Figure 2 is a bottom plan view with a portion of the bottom cover removed.

Figure 3 is a detail enlarged sectional view on the line 3—3 of Figure 2.

Figure 4 is a similar sectional view approximately on the line 4—4 of Figure 2.

Figure 5 is a perspective view looking toward one of the corners of the supporting frame.

In constructing my improved combination mattress I provide a wooden frame. The frame includes spaced longitudinal members 1 and thinner transverse members 2. Above the thin strips which provide the transverse members 2 and likewise overlying the longitudinal members at the corners of the frame there are wider wooden members 3, the width of the same being approximately equal to that of the longitudinal members 1. The members 1, 2 and 3 at the corners of the frame are securely bolted together, the nuts which engage the bolts 4 being received in suitable sockets in the longitudinal members 1.

The members 2 and 3, as disclosed by the drawings are arranged only at the ends of the frame and secured at desired spaced intervals to the sides of the ends of the frame there are metal plates 5 which pass over both the longitudinal and transverse members of the frame and which are also received between the strips 2 and the members 3 of the frame. The outer ends of these flat plates are bent angularly, as at 7, over the elements 3 and nailed thereto, as well as being nailed to the under face of said elements. The longer nails pass through the strips 2 and the plates 5. All of the longitudinal and transversely arranged plates 5 have openings in their inner and projecting ends through which are passed the ring ends of coil springs 8, the opposite and also ring ends of the coil springs being passed through openings in metal strips 9. These flexibly supported metal strips perform an important function in carrying out my invention.

Secured to the frame at the top thereof, are a series of crossed transverse and longitudinally arranged equi-distantly spaced strips of webbing 10, which provide an open and yieldable support for the lower wall 11 of the mattress body covering. Of course, the mattress is of rectangular formation to correspond with the shape of the frame, and the top wall 12 of the mattress covering is tufted by passing knotted strings or cords 13 between certain portions of the top wall 12, and securing the same to the webbing strips 10. Arranged within the mattress covering, and spaced from the adjacent walls thereof is a compartment of rectangular contour, defined by the walls 14 as clearly illustrated in Figure 3. Arranged within the compartment and between the upper and lower walls thereof are compressible springs 15, of the type that are ordinarily employed in bed spring construction. It will be noted that the tufting cord which connects the bottom and top walls 11 and 12 respectively of the mattress

covering also is passed through the top and bottom walls 14 of the same compartment, and the walls 14 of this compartment are flexible. The space between the top wall 12, the bottom wall 11 and the side and end walls of the mattress covering and the adjacent walls 14 of the flexible compartment is provided with a filler of raw cotton or light soft compressible material 16, the latter of course extending around the walls of the flexible compartment as clearly illustrated in Figure 3, so as to substantially embed this flexible compartment wholly within the compressible material 16.

It is to be noted that the strings or cords that afford the tufts of the top of the mattress pass centrally between the lapping portions of the webbing strips 10 and are secured to these strips which, of course, materially reinforce and likewise connect these portions of the strips. The springs 15 naturally exert pressure against the top and bottom walls of the compartment and hold the opposite edges thereof taut. The mattress will give or yield to the weight of a person placing himself thereon but such yielding is limited by the spring supported strips 9. The mattress provides more comfort than an ordinary mattress which is arranged on the ordinary springs. When the weight of a person is removed from the mattress the springs 15, together with the springs 8 will return the mattress to initial position so that regardless of the length of use of the mattress the same will be retained in its proper shape. The cords 13 in addition to providing the tufts prevent any tendency of side or longitudinal movement of the mattress and it is believed that the foregoing description when read in connection with the drawings will fully set forth the simplicity and advantages of my construction without further detailed description.

Having described the invention, I claim:

1. A mattress including a body covering, a fabric compartment arranged therein and having its walls spaced from the adjacent walls of said covering, means for holding the walls of said compartment distended, a soft flexible filling arranged between the walls of the compartment and the adjacent walls of said covering, tufting cords passing through the top and bottom walls of the mattress covering and also through the adjacent walls of said compartment, a wooden frame upon which said mattress is supported, and longitudinal and transverse webbing strips secured to the frame and through which said tufting cords are passed and tied.

2. A mattress including a body covering, a fabric compartment arranged therein and having its walls spaced from the adjacent walls of said covering, means for holding the walls of said compartment distended, a soft flexible filling arranged between the walls of said covering and the adjacent walls of said compartment, tufting cords passing through the top and bottom walls of the covering and also through the adjacent walls of said compartment, a wooden frame upon which said mattress reposes, longitudinal and transverse webbing strips secured to the frame and through which the tufting cords are passed and tied, and a series of longitudinally and transversely arranged strips beneath the webbing and coil springs for securing the ends of the strips to the frame.

3. A mattress including a body covering, a fabric compartment arranged therein and having its walls spaced from the adjacent walls of said covering, means for holding the walls of said compartment distended a soft flexible filling arranged between the walls of the covering and the adjacent walls of said compartment, tufting cords passing through the top and bottom walls of the covering and the adjacent walls of said compartment, a wooden frame upon which said mattress reposes, longitudinal and transverse webbing strips secured to the frame and through which the tufting cords are passed and tied, a series of longitudinally and transversely arranged strips beneath the webbing, and coil springs on the ends of the strips, and plates secured to the frame and extending therefrom and connected with the adjacent ends of the said coil springs.

In testimony whereof I affix my signature.

CHARLES H. VAN TASSEL.