A. W. KINDEL.

MATTRESS.

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1,159,846. Patented Nov. 9, 1915.

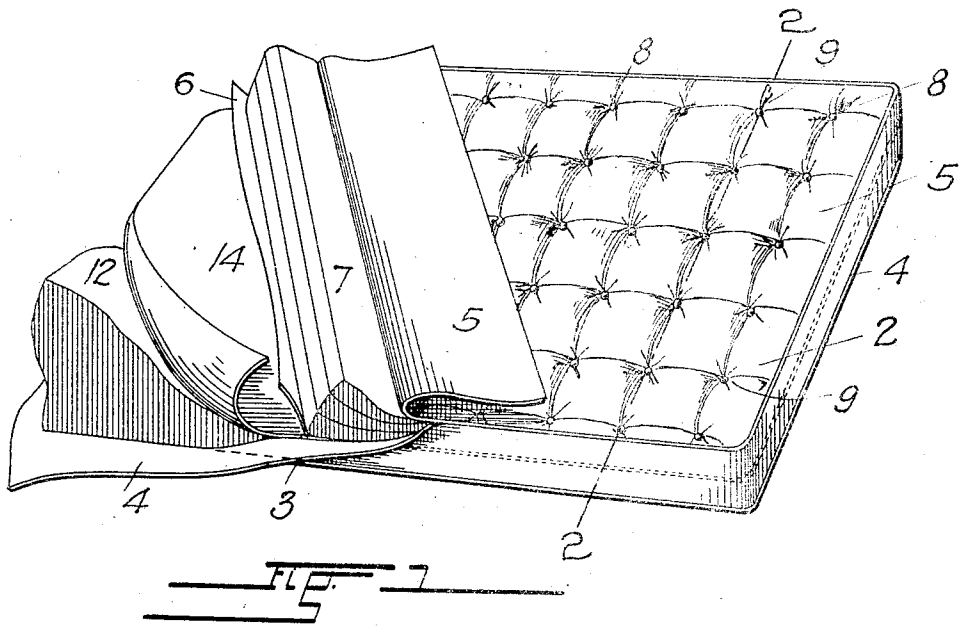


FIG. 1

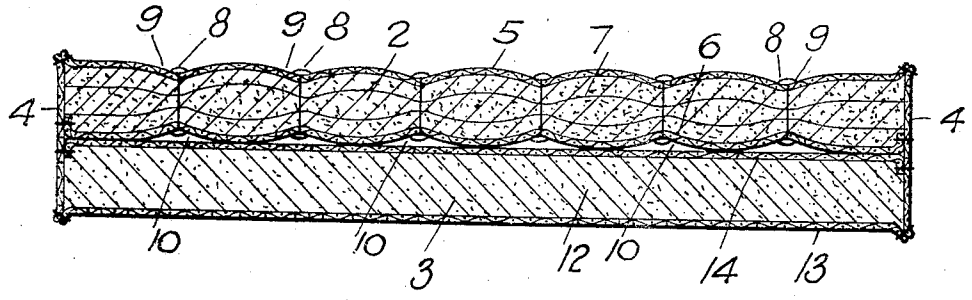


FIG. 2

WITNESSES:

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MATTRESS.

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To all whom it may concern:

Be it known that I, ARTHUR W. KINDEL, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Mattresses, of which the following is a specification.

My invention relates to certain new and useful improvements in mattresses and its primary object resides in providing a mattress in which the resiliency possessed by a non-tufted mattress is combined with all the advantages of the ordinary tufted mattress.

Another object of my invention is to provide means which will prevent a mattress of the above described character from spreading and which will thereby cause it to constantly retain its elastic qualities, and still another object of my invention resides in the provision of a mattress which is equally well adapted for use in warm weather when a cool surface is desirable, as in cold weather when warmth is a paramount requisite.

An embodiment of my invention is illustrated in the accompanying drawings in the various views of which like parts are similarly designated, and in which,

Figure 1 is a perspective view of my improved mattress the component parts of which are exposed at one of its ends, and, Fig. 2, a transverse section through the mattress taken along the line 2—2, Fig. 1.

Referring more specifically to the drawings, my improved mattress is composed of two sections, 2 and 3 which are formed for coöperation within a frame or box 4 which as usual is made of ticking or other similar material.

The section 2 of the mattress comprises two coverings 5 and 6 which are sewed along their edges to the frame to provide a tick for the reception of a stuffing 7 of cotton or other suitable material.

The tick is tufted at intervals as indicated at 8 to prevent the stuffing from shifting about, as well as to provide air spaces 9 on the outer surface of the mattress which give the desired coolness in warm weather, and air spaces 10 within the mattress which greatly increase its elasticity while in use.

The other section 3 of the mattress consists of a layer 12 of cotton or similar stuffing which is held in place by a covering 13 secured to the frame by sewing along the outer edges of the same.

The resiliency of the last mentioned section of the mattress is unimpaired by tufts or other fastenings of the coverings between which its stuffing is confined.

Disposed between the tufted section 2 and the resilient material 12 comprised in the other section, is a sheet 14 of ticking which is sewed along its edges to the surrounding frame 4 for the two-fold purpose of preventing the mattress from spreading in either direction, and of providing a covering for the stuffing of the non-tufted section and preventing the same from filling the air spaces 10 formed in the outer surface of the inner covering of the other section.

Having thus described the construction of my improved mattress, it will be observed that it combines all the desired qualities of a tufted mattress and an untufted mattress; one of its sections imparting the elasticity required for the comfort of the person reclining upon the mattress, while the other section prevents the stuffing from being displaced.

When used with the tufted section uppermost, the depressions formed by the tufts on the outer surface of the mattress give coolness to the reposing body in warm weather, and by reversing the mattress so that its non-quilted section is uppermost it is adapted to impart to the body the warmth desired in winter time.

The air spaces between the two sections constitute a pneumatic cushion which greatly increases the resiliency of the mattress, it being understood that by the movements of a body reclining on the upper surface of the same, the air confined in the said spaces is constantly shifted from one to another.

The dividing sheet which at its edges is connected with the four sides of the box or frame, prevents spreading of the mattress and thereby causes it to constantly retain its resiliency, shape and uniformity of thickness, and at the same time it keeps the stuffing of the unquilted section from destroying the pneumatic cushion formed between the two sections as hereinabove described.

Having thus described my invention what I claim and desire to secure by Letters-Patent is:

1. A mattress comprising a box or frame, and two sections secured one upon the other within the same for coöperation, one of said sections comprising two coverings attached to the frame along their edges and connected at intervals by tufting, and a filling between said coverings, and the other section comprising two unconnected coverings attached along their edges to the frame, and a filling of the same material as that of the tufted section, loosely disposed between said coverings.

2. A mattress comprising a box or frame, and two sections secured one upon the other within the same for coöperation, one of said sections comprising two coverings attached to the frame along their edges and connected at intervals by tufting, and a filling between said coverings, and the other section comprising two unconnected coverings attached along their edges to the frame, and a filling of the same material as that of the tufted section, loosely disposed between said coverings, the inner covering of the untufted section being stretched between the sides of the frame for the purpose specified.

In testimony whereof I have affixed my signature in presence of two witnesses.

ARTHUR W. KINDEL.

Witnesses:
G. J. ROLLANDET,
L. RHOADES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."