

(No Model.)

G. S. PERREN.
MATTRESS.

No. 527,287.

Patented Oct. 9, 1894.

Fig 1.

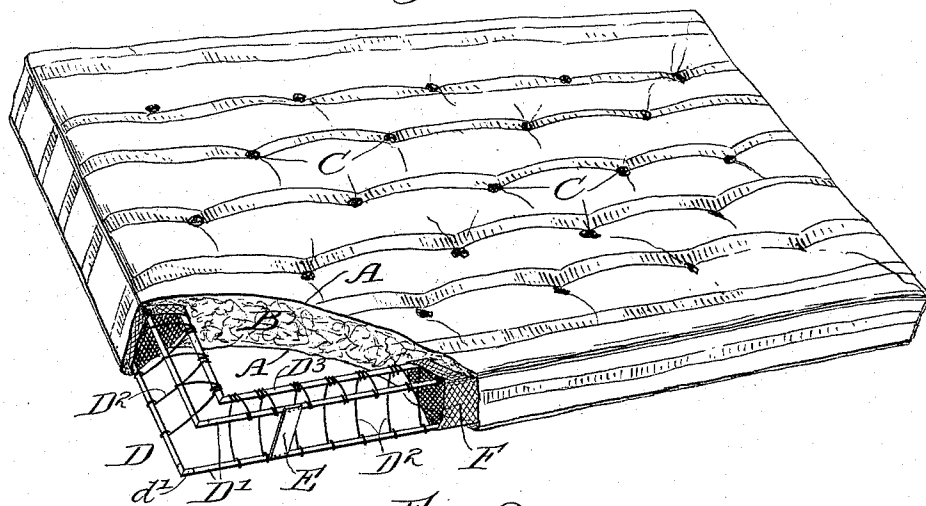


Fig 2.

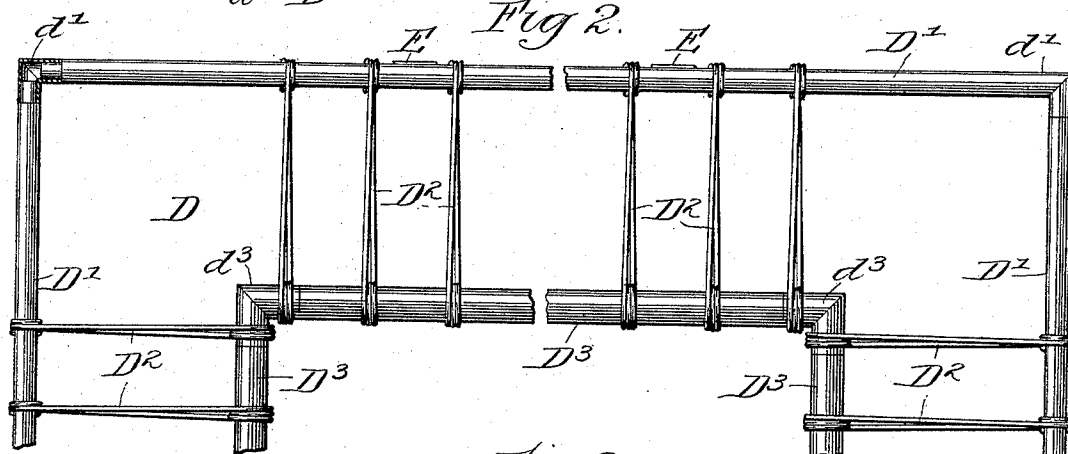
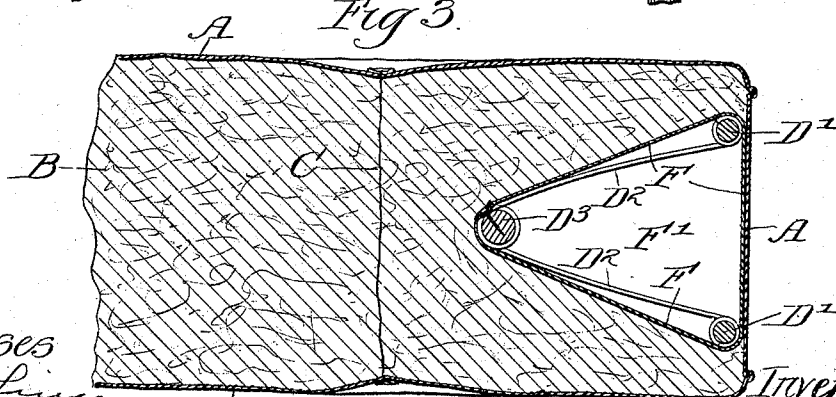


Fig 3.



Witnesses
Alice Linn
Ambrose Risdon

Inventor
George S. Perren
by Cyrus Kehr Atty.

UNITED STATES PATENT OFFICE.

GEORGE S. PERREN, OF CHICAGO, ILLINOIS.

MATTRESS.

SPECIFICATION forming part of Letters Patent No. 527,287, dated October 9, 1894.

Application filed February 19, 1894. Serial No. 500,709. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. PERREN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Mattresses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates particularly to bed mattresses consisting of a covering of heavy cloth or other pliable material and a filling of wool, hair, cotton, or other similar yielding material.

The object of the invention is to provide a support for the edges of such mattresses, to the end that the mattresses may not bend out of shape in handling and spread beyond the normal width.

All these mattresses flatten after a little use, so that the edges are pressed outwardly irregularly and impart to the bed an unsightly appearance. To give the bed a neat and trim appearance, and to make the mattress more durable, I have devised a means for maintaining the edges of the mattress in substantially the form given to them in manufacture, both as to thickness and alignment. To merely provide said edges with means for maintaining their form, is not difficult; but to provide means for maintaining the form of the edges and at the same time maintaining the elasticity of said edges was not an easy matter. It will be readily understood that such a mattress would not be marketable if it should appear less yielding in use than the ordinary mattress.

In the accompanying drawings:—Figure 1 is a perspective of a mattress embodying my improvement, a portion of the cover and filling being removed to expose the elastic border structure. Fig. 2 is a detail of the border structure. Fig. 3 is a vertical section through one of the edges of the mattress.

A is the usual cloth or other pliable covering of the mattress. B is the filling of wool, hair, or similar yielding material. Heretofore these mattresses have consisted only of

this covering and filling, and ties of thread or cord, C, extending vertically through the mattress with their ends attached to the cover. This has left the mattress pliable throughout, and portions invariably have spread so as to extend the edges outward beyond the original position. In order to keep one of these mattresses within the width of the bed bottom after use, it is now necessary to make the mattress narrower than the bed bottom. On spreading, it will occupy the full width of the bed bottom in places, and elsewhere it will extend irregularly beyond the sides of the bed bottom and the thickness of the margin is much reduced in places.

D is a border member which is compressible in a vertical direction but substantially rigid in directions parallel to the plane of the mattress. This member extends around the border of the mattress and is embedded in the filling, B, to such an extent as to be unnoticeable in the use of the bed. The principal factors in said member are the bars, D', D'. These stand normally separated one above the other as shown particularly in Fig. 3, and are so held by a suitable arrangement of springs. In the form illustrated in the drawings, springs, D², extend from the bar, D³, to each of the bars, D', and press the latter from each other. Each pair of springs, D², may be made of one wire having one end secured to the upper bar, D', and the other to the lower bar, D', and having its middle extended around or otherwise secured to the bar, D³.

The ends of the bars, D, are preferably united at the corners. When said bars are of wood, such union may be effected by metallic corner pieces, d'. The bars, D³, should also be joined at the corners, and if they are made of wood, this union may be effected by metallic corner pieces, d³. The bars, D³, are preferably in a plane parallel to the plane of the mattress and passing between the bars, D'.

Staying straps, E, may extend from one bar, D', to the other to limit the separation of said bars.

A pliable covering, F, may extend around the group of bars, D', D³, inclosing a triangular space, F', between said bars. In forming the mattress, the filling, B, is placed between said cloth and the cover, A; but the

space, F', is preferably left empty. It will now be seen that said bars and springs together constitute a marginal frame which is compressible in lines perpendicular to the plane of the mattress and is substantially rigid in other directions. If pressure is applied to the top of the mattress at the edge, the springs, D², allow the upper bar, D', to descend, and when said pressure is removed, said springs cause said bar to rise to its normal position, whereby the full thickness of the edge of the mattress is restored. It will also be seen that none of the edges can curve outward or inward to detract from the appearance of the bed. It is to be observed that the body of the mattress is not sustained vertically by the marginal cover. The usual bed bottom is required to support the mattress at all points.

20 I claim as my invention—

1. In a mattress, the combination of a pliable cover, a suitable yielding filling, and a marginal member embedded in the mattress and elastic in lines perpendicular to the plane of the mattress and substantially unyielding in lines parallel to said plane, substantially as described.

2. In a mattress, the combination of a pliable cover, a suitable yielding filling, superposed marginal bars, D', embedded in said filling,

and springs for keeping said bars normally separated, substantially as described.

3. In a mattress, the combination of a pliable cover, a suitable yielding filling, superposed marginal bars, D', bars, D², located in a plane parallel to the plane of the bed and extending between the bars, D', and springs extending from said bar, D², to said bars, D', substantially as described.

4. In a mattress, the combination of a pliable cover, a suitable yielding filling, superposed marginal bars, D', a bar, D², springs, D², extending from said bar, D², to said bars, D', a cover, F, extending around said group of bars and inclosing an empty space, F', substantially as described.

5. In a mattress, the combination of a pliable cover, a suitable yielding filling, a marginal member consisting of the bars, D', D², and springs secured by their ends to the bars, D', and between their ends to the bars, D², substantially as described.

In testimony whereof I affix my signature, in the presence of two witnesses, this 3d day of February, in the year 1894.

GEORGE S. PERREN.

Witnesses:

ALICE LIME,

AMBROSE RISDON.