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M. MARSACK

2,398,237

MATTRESS

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Fig. 1.

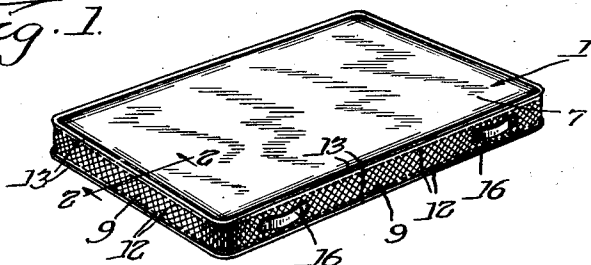


Fig. 2.

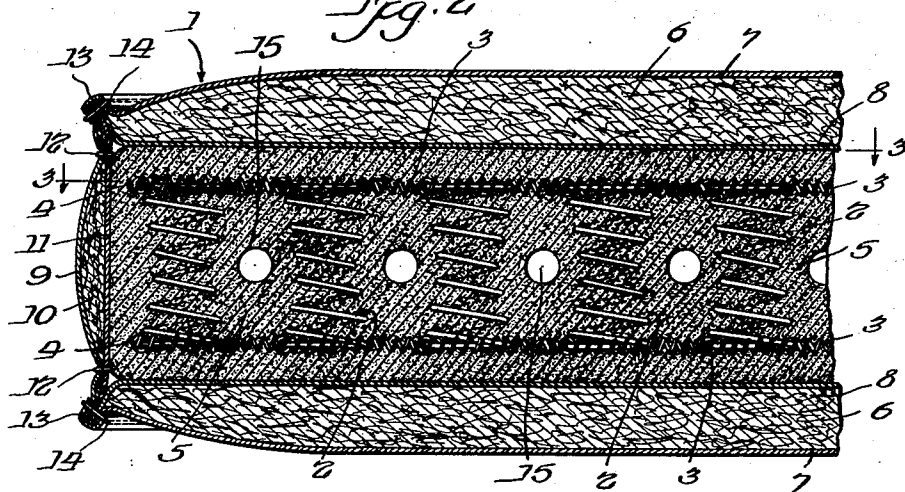
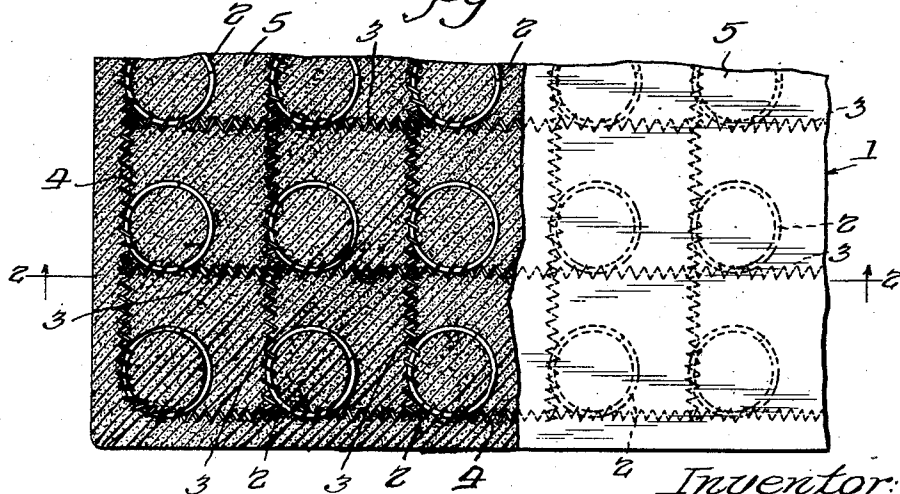


Fig. 3.



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UNITED STATES PATENT OFFICE

2,398,237

MATTRESS

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3 Claims. (Cl. 5—351)

My invention belongs to that general class of articles known as mattresses, cushions or pillows, and relates more particularly to a type of mattress embodying an inner spring construction with a molded body enclosing and concealing the spring construction, which body may be padded or not as desired and enclosed in a suitable covering.

The invention has among its objects the production of a mattress of the kind described which is comfortable, attractive, durable and satisfactory for use wherever found applicable.

The invention has as a further object, the production of a mattress of the kind described in which is employed an inner spring construction of more or less conventional design about which is molded a core or body, preferably of a cellular compressible and elastic material such as sponge or similar rubber. I prefer to use rubber formed with a large number of small air cells which may be so constructed as to be moisture proof. The core may be enclosed within a suitable covering made up of padding material such as felt, kapok or the like, the whole mattress being enclosed within a suitable cover, which cover may in itself be moisture or water proof.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end, my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawing, wherein like reference characters indicate like or corresponding parts:

Fig. 1 is a perspective view showing a mattress embodying the invention;

Fig. 2 is a sectional view taken substantially on line 2—2 of Fig. 1; and

Fig. 3 is a fragmental longitudinal section taken substantially along the line 3—3 of Fig. 2.

Referring to the drawing, the reference character 1 denotes generally the completed mattress with the cover enclosing the same and concealing the core or inner body, and in general giving the mattress the appearance of the conventional style of mattress.

Referring particularly to Figs. 2 and 3, 2 represents a plurality of coiled springs secured together by helicals 3 extending across the same, both transversely and lengthwise, tying the coils together and maintaining them as a unitary structure. Any equivalent for the helicals may be employed for the purpose. The particular spring construction is shown provided with a hel-

ical border wire 4, it being understood that the inner spring construction consists of the coils and helicals. Tying them together with helicals represents a conventional inner spring construction.

Molded about the inner spring construction described is a core or body 5 preferably of rubber which is compressible and elastic, and in this connection I prefer to use a core of latex or some similar material that may be formed with a large number of small air cells in the same. Such rubber is well known in the art under various trade names, and may be molded with a skin about the exterior so that the cells are entirely sealed, whereby the core will not take up or absorb moisture even though the mattress may be thrown in water or submerged. Obviously, by concealing the inner spring construction in the body or core, moisture cannot reach the coils or helicals, causing the same to rust or oxidize. Over the faces of the body or core may be arranged padding 6 of felt, kapok or any suitable material for the purpose. As illustrated, the padding 6 is arranged between cover sheets 7 and 8, it being understood that the sheet 8 may be omitted where desired. About the edges of the mattress is arranged a border or boxing consisting of an outer ply 9 and if desired a padding 10 and inner ply 11 may also be employed. This boxing may be pre-built, where made up of a plurality of plies, the plies being stitched together as indicated at 12. The edges of the plies of the sheets 7 and 8 and 9 and 11 are then brought together and secured by tape 13 and a stitching 14, affording an attractive exterior appearance of the mattress.

In use, the mattress is yieldable and comfortable and always maintains its shape. If desired, openings 15 extending from side to side, or from end to end, or from top to bottom, may be provided in the body 5 to reduce weight and conserve the rubber.

This mattress with the sealed in inner spring construction is particularly desirable when used in damp places since the metal is all enclosed and will not corrode. This is particularly important on ship-board since the metal construction is sealed against sea air. If kapok or other non-absorbent material is employed as padding, and water proof sheets 7 and 9 used to cover the mattress, the mattress can be used as a life raft, and in this instance provided with one or more hand straps 16 about the periphery of the same. It is thus possible to provide a combination comfortable mattress and life raft for use on ship-board and on air craft, as well as a mattress par-

particularly desirable for camps, and field service, especially where there is dampness. Obviously, the size may be as desired insofar as length, width, depth or thickness is concerned. While I have particularly mentioned the foregoing uses, it is obviously adapted for home use and especially good for hotels and similar places where the mattresses ordinarily get hard usage.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. In a mattress of the kind described and in combination, an inner spring construction consisting of a plurality of vertically disposed coiled springs, and border helicals extended about the top and bottom edges of the spring construction connecting the ends of the adjacent coils, and helicals extending lengthwise and crosswise of the construction connecting border helicals at opposite sides and coils adjacent the connecting helicals, and a cellular resilient elastic body having an exterior skin-like sealing surface, the body being of greater length, width and thickness than the spring construction and disposed in and about the spring construction and enclosing the individual springs and helicals and interposed between the coils thereof.

2. In a mattress of the kind described and in combination, a conventional inner spring construction consisting of a plurality of vertically disposed coiled springs, and border helicals ex-

tended about the top and bottom edges of the spring construction connecting the ends of the adjacent coils, and helicals extending lengthwise and crosswise of the spring construction connecting the border helicals at opposite sides and the coils adjacent the connecting helicals, and a cellular resilient elastic body of greater length, width and thickness than the spring construction disposed in and about the spring construction and enclosing the individual springs and helicals and interposed between the coils thereof, said body having an outer non-porous skin enclosing the same, a cover pad over the top and bottom faces thereof, and a boxing connecting said pads and enclosing the ends and sides of the elastic cellular body and surrounded inner spring construction.

3. In a mattress of the kind described and in combination, an inner spring construction consisting of a plurality of vertically disposed coiled springs, and border helicals extended about the top and bottom edges of the spring construction connecting the ends of the adjacent coils, and helicals extending lengthwise and crosswise of the spring construction connecting the border helicals at opposite sides and the coils adjacent the connecting helicals, and an integrally formed cellular resilient elastic body of greater length, width and thickness than the spring construction disposed in and about the spring construction and the individual springs and helicals entirely enclosing the same and interposed between the coils thereof, a moisture-proof cover pad over the top and bottom faces thereof, and a boxing connecting said pads and enclosing ends and sides of the mattress inner body and spring construction.

MAX MARSACK.