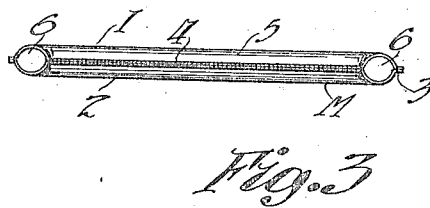
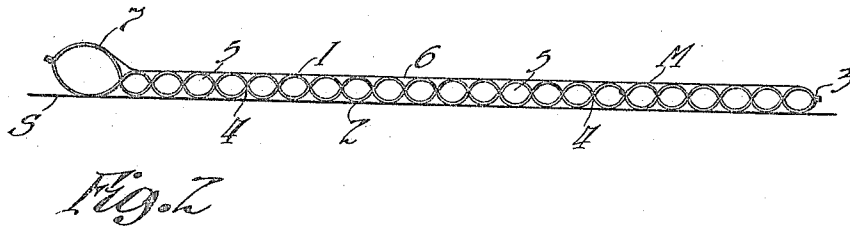
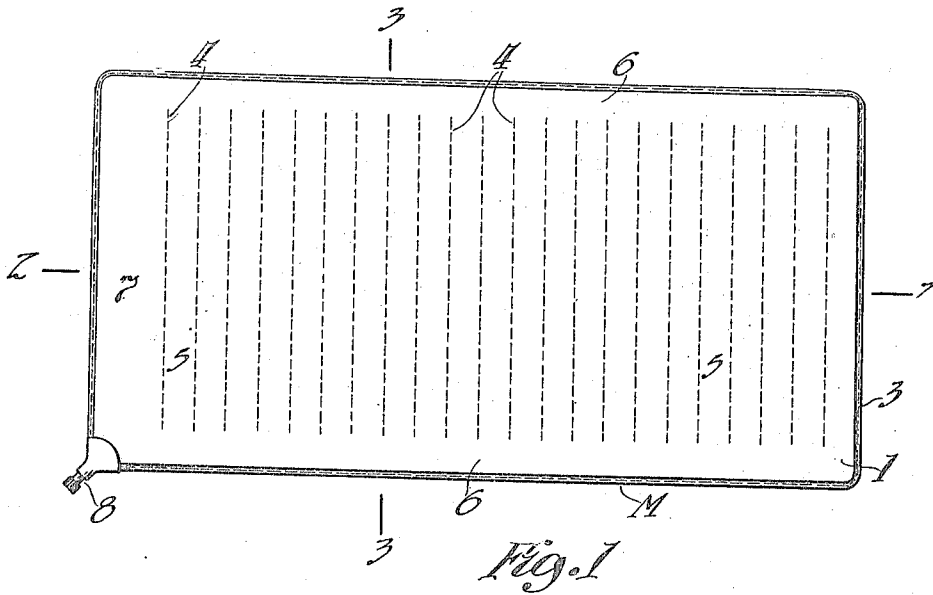


W. B. ROBESON.  
MATTRESS.  
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1,269,746.

Patented June 18, 1918.



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# UNITED STATES PATENT OFFICE.

WILLIAM BENJAMIN ROBESON, OF PORT HURON, MICHIGAN.

## MATRESS.

1,269,746.

Specification of Letters Patent. Patented June 18, 1918.

Application filed February 7, 1918. Serial No. 215,779.

*To all whom it may concern:*

Be it known that I, WILLIAM B. ROBESON, a citizen of the United States, and a resident of Port Huron, in the county of St. Clair and State of Michigan, have invented certain new and useful Improvements in Mattresses, of which the following is a description.

My invention relates to mattresses, and more particularly to an improved form of mattress which is especially designed and adapted for use by campers and tourists, in army camps and field hospitals, and wherever it is important or desirable to economize space or to facilitate transportation of the mattress.

One of the objects of my invention is to provide an improved mattress which, when ready for use or in use, will be of an ordinary size, but which when not in use may be quickly and easily made into an extremely light and compact bundle occupying but a very small space.

Further objects of my invention are to provide an improved construction for preventing a person lying on the mattress from rolling off, and to provide a pillow constituting a part of the mattress and formed in a novel manner.

My invention also embraces a pneumatic or inflatable mattress for carrying out any or all of the foregoing objects, preferably formed of material which is unaffected by water, acids and alkalis.

It is also an object of the present invention to provide a mattress of the character described which is very simple in construction and which may be readily and economically manufactured.

Other objects and features of my invention will be hereinafter more specifically described and claimed.

In order that my invention may be more clearly understood, attention is directed to the drawing accompanying and forming a part of this specification, and in which:

Figure 1 is a plan view of a pneumatic mattress constructed in accordance with my invention and shown inflated;

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

Fig. 3 is a sectional view taken on line 3—3 of Fig. 1.

Referring to the drawing, the pneumatic mattress M shown comprises the top and bottom walls 1 and 2 which are secured to-

gether at their edges in any suitable manner, as by means of stitching 3. The joints formed where the walls 1 and 2 are connected are rendered air-tight and also preferably water-tight in any suitable manner. The walls 1 and 2 are made of any suitable airproof material which is also preferably treated in any suitable manner to render the same waterproof. I prefer, however, to make the walls 1 and 2 of very light thin cotton duck and to coat and impregnate the same with the well known weather-proofing material having the trade name "Preservo." This weather-proofing material consists of several inert gums which have an affinity for cotton fiber and which are incorporated with a non-volatile carrying vehicle of powerful antiseptic properties. The cotton duck, when treated by "Preservo" as described, will be water-proof, acid-proof and alkali-proof. Moreover, it will be highly sanitary, as the "Preservo" renders the same antiseptic and prevents deterioration thereof by mildew and insects or other destructive surface agents.

In order that the mattress may present a surface which is comfortable to lie upon and to simulate a regular quilted mattress, I preferably directly secure together the top and bottom walls 1 and 2 on lines running transversely of the length of the mattress at regular spaced intervals, in any suitable manner, but preferably by means of lines of stitching 4, whereby, when the mattress is inflated, it will be provided with transverse portions or roll sections 5. The lines of stitching 4 are treated in any suitable manner to render the same air and also preferably water tight. The ends of the lines of stitching 4 are preferably respectively spaced from the opposite side edges of the mattress, whereby the mattress, when inflated, will be provided at each side with a longitudinal portion or roll section 6 of even contour. The longitudinally extending portions or roll sections 6 tend to prevent a person lying on the mattress from rolling off either side thereof. Without the longitudinal sections 6, the mattress would settle at either side thereof with the weight of the body as a person rolled toward such side. When inflated, the mattress M will be of an ordinary size, for example, about six feet long by three feet wide. The lines of stitching 4 are preferably equi-spaced, and the ends of the lines of stitching 4 are preferably spaced from the

side edges of the mattress a distance equal to the distance between adjacent lines of stitching. In a mattress which is six feet long by three feet wide, the lines of stitching 4 are preferably spaced three inches apart and the ends of these lines of stitching are preferably spaced from the side edges of the mattress a distance of three inches. The distance between the foot of the mattress 10 and the adjacent line of stitching 4 is also preferably approximately three inches. The distance between the line of stitching 4 nearest the head of the mattress is greater than the distance between adjacent lines of stitching 4, preferably being from six to eight inches, so that the mattress when inflated will be provided with an integral comparatively wide head portion or pillow 7. The dimensions just described may, of course, 20 be varied as desired. It will be apparent that when the mattress is inflated and resting upon a support S, as shown in Fig. 2, the wide head portion 7 will be raised a considerable distance above the tops of the transverse portion or roll sections 5 and 25 form a comfortable pillow.

Reference character 8 represents a conventional type of air valve which is secured to the mattress, preferably at one corner 30 thereof, whereby the mattress may be readily inflated or blown up by any suitable means, such as an ordinary bicycle pump. It will be apparent that the interior of each of the longitudinally extending side roll sections or portions 6 communicates directly 35 with the interiors of all the transverse portions or sections 5, so that when air is pumped into the mattress through the valve 8, all these sections will be simultaneously 40 inflated.

The uses of a mattress of this character are almost limitless. In addition to the uses which have already been mentioned, the mattress is adapted for use on sleeping cars, as it 45 is sanitary and vermin proof. It is also particularly adapted for use on passenger ships, for in case of necessity it can be thrown overboard and will serve as an efficient and durable life raft which will be unaffected by 50 either fresh or salt water. As a life raft it is very serviceable, for a mattress constructed in accordance with my invention and having a size of approximately six feet by three feet is capable of supporting one person directly 55 thereon and in addition will support several other persons by means of lines which may be attached to the mattress for that purpose.

When not in use, the air valve 8 may be opened, whereupon the mattress will collapse and may then be rolled up so as to 60 form a very light compact bundle which can be stowed away in a very small space.

While my invention is particularly directed to a pneumatic or inflatable mattress, several of the features thereof are obviously

applicable to other types of mattresses. It is also to be understood that the mattress specifically described herein is subject to various changes and modifications without any departure from the spirit of the invention and the scope of the appended claims. 70

Having now described my invention, what I claim as new and desire to protect by Letters Patent is as follows:—

1. A mattress consisting of top and bottom walls secured together at their edges, said walls being directly connected so as to provide the mattress with transverse roll sections, the ends of which are spaced from the opposite side edges of the mattress, and continuous roll portions extending lengthwise of the mattress beyond and adjacent the ends of said transverse roll sections respectively, said roll portions being of substantially the same height as said transverse sections. 75 80 85

2. A mattress consisting of top and bottom walls secured together at their edges, said walls being directly connected so as to provide the mattress with transverse roll sections, the ends of which are spaced from the opposite side edges of the mattress, and continuous uninterrupted roll portions beyond and adjacent the ends of said sections respectively, said portions being of a height as least as great as that of said transverse sections. 90 95

3. An inflatable mattress comprising flexible top and bottom walls secured together at their edges, said walls also being directly connected on lines extending transversely of the mattress, the ends of said lines of connection being respectively spaced from opposite sides of the mattress, whereby the mattress when inflated will be provided with transverse roll portions and an uninterrupted roll portion of substantially even contour at each of its sides, the interior of which is in communication with the interior of all said transverse roll portions. 100 105

4. An inflatable mattress comprising top and bottom walls formed of flexible airproof and waterproof material and secured together at their edges, said walls also being directly connected on lines extending transversely of the mattress, the ends of said lines of connection being respectively spaced from opposite sides of the mattress, whereby the mattress when inflated will be provided with transverse roll portions and an uninterrupted roll portion of substantially even contour at each of the sides, the interior of which is in communication with the interior of all said transverse roll portions. 110 115 120

5. An inflatable mattress comprising top and bottom walls formed of flexible airproof and acid-proof material and secured together at their edges, said walls also being directly connected on lines extending transversely of the mattress, the ends of said lines of connection being respectively spaced from 125 130

opposite sides of the mattress, whereby the mattress when inflated will be provided with transverse roll portions and an uninterrupted roll portion of substantially even contour at each of the sides, the interior of which is in communication with the interior of all said transverse roll portions.

6. An inflatable mattress comprising top and bottom walls formed of flexible airproof and alkali-proof material and secured together at their edges, said walls also being directly connected on lines extending transversely of the mattress, the ends of said lines of connection being respectively spaced from opposite sides of the mattress, whereby the mattress when inflated will be provided with transverse roll portions and an uninterrupted roll portion of substantially even contour at each of the sides, the interior of which is in communication with all said transverse roll portions.

7. A pneumatic mattress comprising top and bottom walls of flexible airproof material secured together at their edges, said walls being directly secured together so as to provide the mattress with transverse inflatable sections having one end spaced from the adjacent side of the mattress, and an inflatable section of substantially the same

width as said transverse sections extending lengthwise of the mattress at such side and the interior of which is in communication with the interior of all said transverse sections.

8. An inflatable mattress, comprising flexible top and bottom walls secured together at their edges, said walls also being connected on lines extending transversely of the mattress, the ends of said lines of connection being respectively spaced from opposite sides of the mattress so that the mattress when inflated will be provided with transverse roll portions and an uninterrupted roll portion at each of its sides of substantially the same height as said transverse roll portions.

9. A pneumatic mattress comprising transversely extending inflatable sections having one end spaced from the adjacent side of the mattress, and an inflatable section extending lengthwise of the mattress at such side and of substantially the same width as said transversely extending sections.

This specification signed and witnessed this first day of Feb. 1918.

WILLIAM BENJAMIN ROBESON.

Witnesses:

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