

July 1, 1941.

M. ROSBERGER

2,247,667

MATTRESS

Filed Jan. 24, 1941

2 Sheets-Sheet 1

Fig. 1

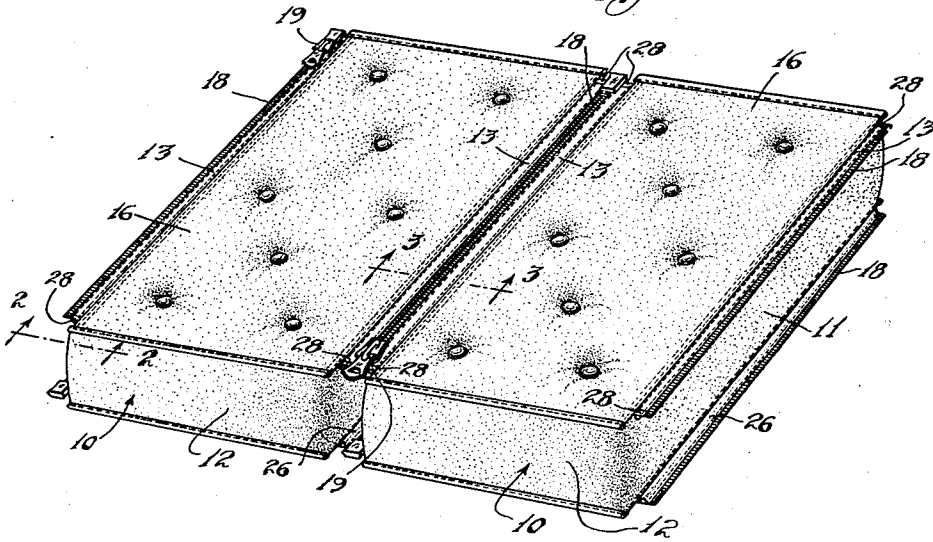


Fig. 2

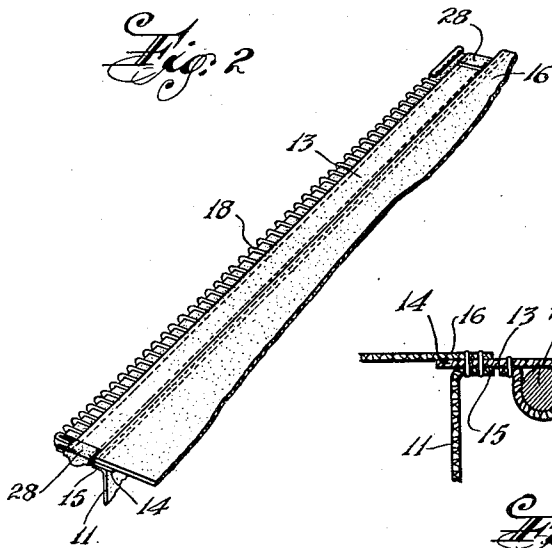


Fig. 3

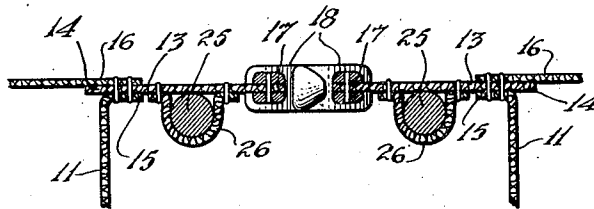
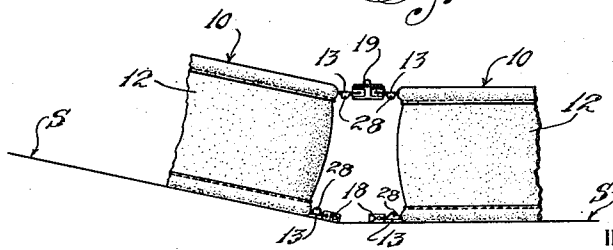


Fig. 4



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Fig. 5

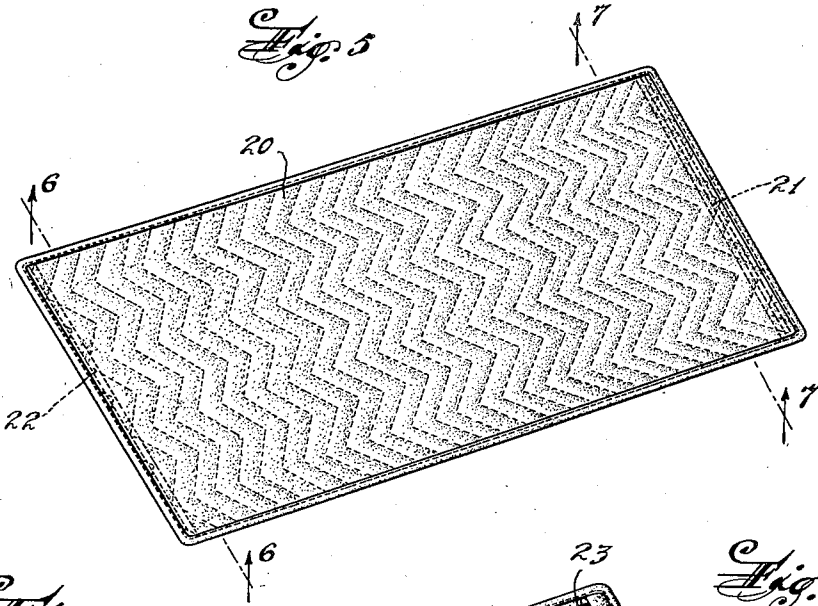


Fig. 6

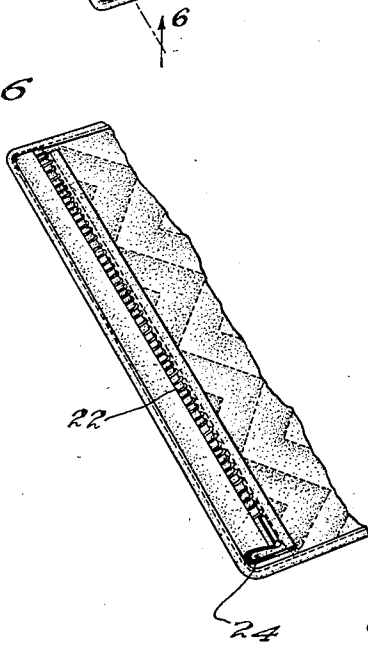


Fig. 7

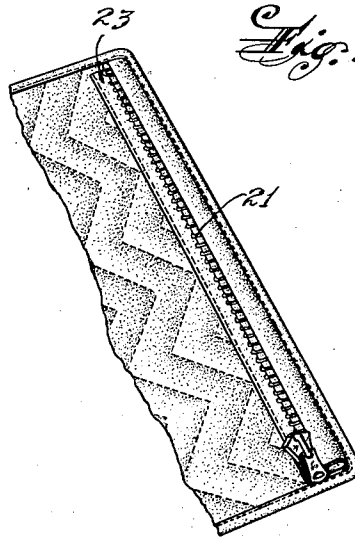
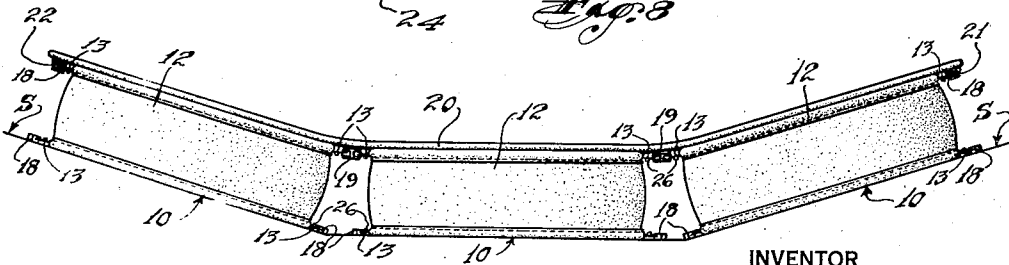


Fig. 8



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UNITED STATES PATENT OFFICE

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MATTRESS

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2 Claims. (Cl. 5—357)

This invention relates to improvements in sectional mattresses and has as its object to provide a mattress having two or more sectional members so constructed as to be adapted to be interchanged and to be secured together to provide a substantially unitary mattress presenting a substantially continuous upper surface.

A further object of my invention is to provide a sectional mattress of the character described with means secured to, superimposed on and co-extensive with the upper surfaces of the mattress sections, providing, in conjunction therewith, an even distribution of the weight supported by the sections.

These and other advantageous objects, which will later appear, are accomplished by the simple and practical construction, combination, and arrangements of parts hereinafter described and shown in the accompanying drawings, wherein like reference numerals indicate like parts and wherein:

Fig. 1 is a perspective view of sections of a mattress made in accordance with my invention,

Fig. 2 is a fragmentary perspective view taken on line 2—2 of Fig. 1 in the direction of the arrows, revealing details of construction of the means for securing marginal edges of the mattress sections together in accordance with my invention,

Fig. 3 is an enlarged fragmentary vertical transverse sectional view taken on lines 3—3 of Fig. 1, indicating further details of the means for uniting the mattress sections,

Fig. 4 is a fragmentary end elevational view of sectional members embodying my invention, showing the relative juxtaposition of the parts when the mattress is positioned on an irregular surface,

Fig. 5 is a top plan view of a member adapted to be superimposed over the upper surfaces of assembled sectional members as in Fig. 8, to provide, in conjunction therewith, an even distribution of the weight supported by the sections,

Figs. 6 and 7 are fragmentary underplan views taken on lines 6—6 and 7—7 respectively of Fig. 5, and

Fig. 8 is an end elevational view of a mattress embodying my invention, shown positioned on an angularly disposed surface.

In the drawings, in Fig. 1 there is shown a mattress embodying my invention, comprising two or more sectional members 10, each of which is of generally rectangular configuration, having side and end walls 11 and 12, respectively. The

sectional members 10 are of like construction; a description of one will apply equally to all unless otherwise indicated. Sectional member 10 has secured thereto elongated fabric strips 13 protruding beyond the planes of the sides 11 of the mattress section and terminating short of the corners thereof. The fabric strips 13 are preferably marginally sewed or otherwise secured, at one edge 14, to the mattress section, preferably, as indicated in Fig. 3, intermediate horizontally disposed ends 15 and 16 of strips secured to or integral with the sides and top portions of the mattress section, respectively. The free ends 17 of fabric strips 13 are provided, as shown in Fig. 3, with complementary halves of fastener units of adjacently disposed strips 13 whereby, by aligning the sectional members in parallel spaced relation with the slide fastener halves in abutment, said sections may be secured together at their longitudinal edges. The strips 13 are freely flexible to enable the sections 10 to be angularly disposed relatively to each other as in Figs. 4 and 8 to conform to the surface S on which the mattress is placed or to permit airing of the mattress. The sections 10 may be thus secured together at their upper and lower longitudinal edges, as in Fig. 1, to present a substantially unitary and rigid mattress with a continuous upper supporting surface, the mattress being adapted to be separated into individual sections for removal, rearrangement or replacement of sections. As shown in Fig. 5, the mattress of my invention may be provided with an elongated member 20 preferably made in the form of a flexible, pad-like member, stitched for reinforcement as shown and adapted to be superimposed over the upper surface of the mattress and to be secured to the fastener elements of the mattress ends as shown in Fig. 8, for the purpose of further providing an even distribution of the weight to be supported by the mattress and providing, in conjunction therewith, a substantially continuous supporting surface as shown in Fig. 8. The elongated member 20 is provided on the underside, adjacent the transverse ends thereof, with complementary halves 21—22 of continuous, separable, slide fastener units secured to fabric strips 23—24 respectively, said fabric strips being secured at their other edges to the underside of member 20; the fabric strips may be curled upon themselves as shown in Figs. 6 and 7 so that the slide fastener elements carried thereby will be disposed in the same plane as the member 20 but spaced therefrom and directed inwardly away from the ends thereof as clearly shown in Figs.

6 and 7. By superimposing member 20 over the mattress sections as in Fig. 8, the fastener elements of the elongated member 20 may be engaged with the complementary elements of the fabric strips 13 at the ends of the mattress.

The unitary characteristics of the mattress are thus enhanced and an even distribution of the weight supported by the mattress is further assured. For the purpose of providing even greater rigidity to the fastening means embodying my invention, the fabric strips 13 may be provided with reinforcing longitudinal rods 25 secured thereto in any desired or convenient manner, as for example, by straps 26 sewed or otherwise secured to the fabric strips 13, said straps being preferably coextensive with the length of the fabric strips 13 and being preferably provided with closed ends 28 as shown in Fig. 2 for the purpose of preventing displacement of said rods 25. As will be noted from Fig. 1, the fabric strips 13 are so arranged that a like pair of halves of fastener elements will be disposed at each of the sides 11 of the mattress, to enable the mattress sections to be reversed, replaced and interchanged at will and to enable the member 20 to be secured thereto if desired from time to time.

It will be noted that when the mattress sections are secured together in accordance with my invention, (as indicated in Fig. 1) at adjacent upper and lower marginal edges, a substantially unitary and rigid structure is provided; when, as indicated in Figs. 4 and 8, the mattress sections are secured together at only their upper longitudinal marginal edges in accordance with my invention, a substantially continuous upper surface conforming to the configuration on the surface on which the mattress is positioned, is provided the structure of the fabric strip members 13 and its arrangement on the mattress providing for the free flexing and pivoting of the sections relatively to each other while maintaining a positive and reinforced interconnection between the mattress sections and presenting a continuous and firm upper surface at all times.

Thus the mattress has proven admirably adapted for use in hospitals, conforming readily to the various arrangements of the "Gatch" type of bed, the replaceable characteristics of the mattress permitting removal and rearrangement of its sectional members and thus prolonging the value and life of the mattress.

The features described also facilitate the handling of the mattress and airing thereof.

In carrying out my invention, the mattress sections may be secured together at adjacent upper marginal edges only as shown in Fig. 8, or alternately, at upper and lower marginal edges to enable the sectional members to be arranged at different planes in conformity with the surface of a "Gatch" type bed or other irregular surface on which the mattress is placed.

The mattress of my invention may be provided with only one elongated member 20, superimposed over the upper surface thereof, or a pair of such members 20 may be provided, the second member being superimposed over the lower surface, in the same manner as heretofore described, and which will become apparent if,

on viewing Fig. 8, one were to assume that the mattress is inverted with the lower surface appearing uppermost.

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

1. A mattress comprising two or more elongated sectional members of rectangular configuration, each member being provided with side and end walls and corners, said member having secured to the side walls at the upper edges thereof elongated fabric strips protruding beyond the planes of the sides thereof, said strips being secured, at one edge, to the mattress section, providing for the free flexing and pivoting of the fabric strips, separable fastener units secured to and coextensive with the free ends of the fabric strips, whereby, by aligning said sectional members in parallel relation with the fastener units in abutment, said sections may be secured together at their upper longitudinal edges with the abutting separable fastener units intermediate and pivotally connecting the mattress sections at their upper longitudinal edges, to enable movement of the sections angularly relatively to each other while presenting a substantially continuous upper surface and with separable fastener units along the outer transverse edges of the end mattress sections, a pad member, and fabric strips curled upon themselves and secured at one edge along the under side of the pad member adjacent the outer transverse edges thereof, the free edges of the fabric strips being disposed in a plane substantially parallel with the pad member and being provided with separable fastener elements adapted to be engaged with the fastener elements along the outer transverse edges of the end mattress sections whereby the pad may be superimposed on and cover the mattress section members and the fastener units therebetween.

2. A mattress comprising two or more elongated sectional members of rectangular configuration, each member being provided with side and end walls and corners, said member having secured to the side walls at the upper edges thereof elongated fabric strips protruding beyond the planes of the sides thereof, said strips being secured, at one edge, to the mattress section, providing for the free flexing and pivoting of the fabric strips, separable fastener units secured to and coextensive with the free ends of the fabric strips, whereby, by aligning said sectional members in parallel relation with the fastener units in abutment, said sections may be secured together at their upper longitudinal edges with the abutting separable fastener units intermediate and pivotally connecting the mattress sections at their upper longitudinal edges to enable movement of the sections angularly relatively to each other while presenting a substantially continuous upper surface and a pad member coextensive with said upper surface, and separable fastener units secured at the outer transverse edges of the pad adapted to be engaged with the fastener elements of the fastener units along the outer transverse edges of the end mattress sections.

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