Jan. 26, 1932.

M. E. LEEKING

1,842,873

MATTRESS HOLDER

Filed July 29, 1930

Fig. 1.

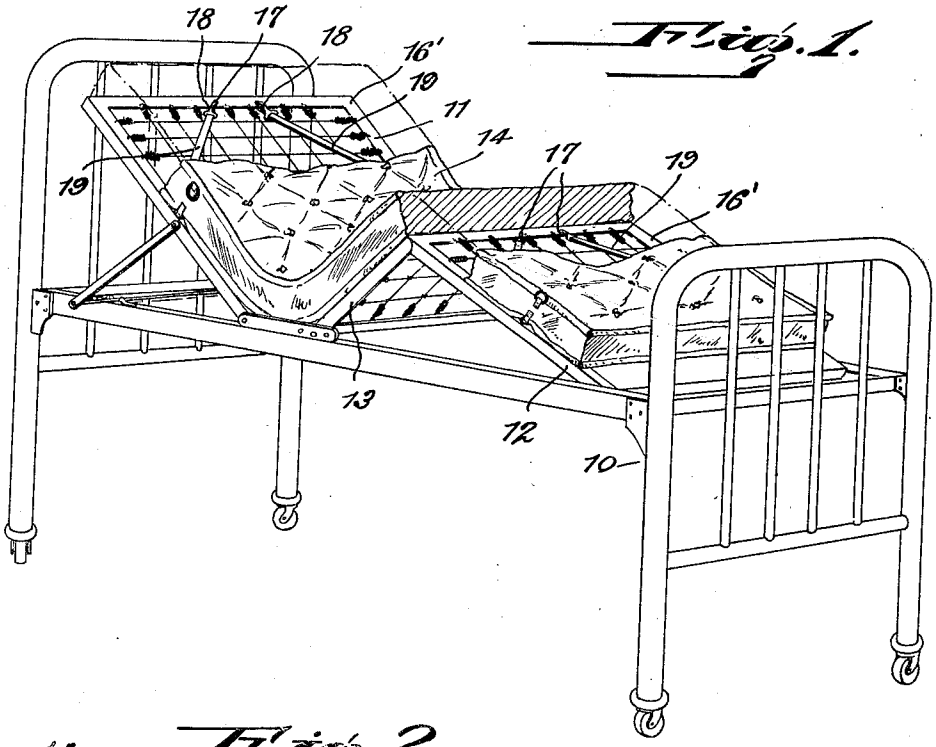


Fig. 2.

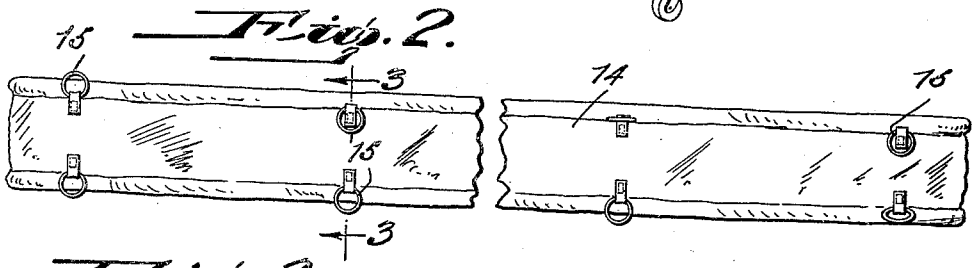


Fig. 3.

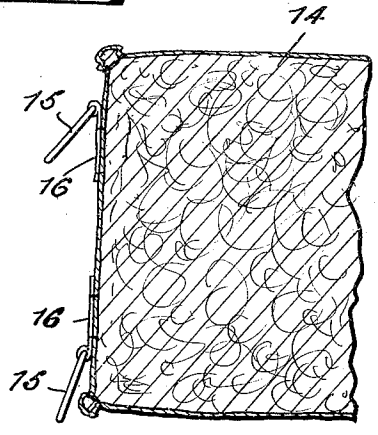
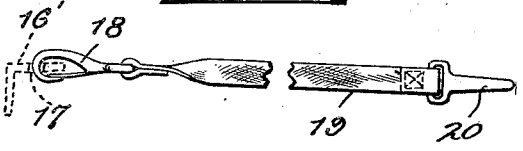


Fig. 4.



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UNITED STATES PATENT OFFICE

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MATTRESS HOLDER

Application filed July 29, 1930. Serial No. 471,478.

This invention relates to improvements in mattress holders for hospitals or sick beds.

It will be appreciated that in hospital beds wherein the springs are constructed of several adjustable sections to enable the propping up of a patient, that the mattress has a tendency to creep or work down toward the foot of the bed. This necessitates the frequent lifting of the patient to enable the shifting of the mattress back toward the head of the bed and which requires the services of two nurses or attendants in order to rearrange the mattress for the comfort of the patient. It is therefore the primary object of my invention to prevent the accidental shifting of the mattress relative to the spring so that it will always remain in position when the springs are adjusted.

Another object of the invention is to provide a simple means of connecting the mattress to the spring to arrest movement of the mattress relative thereto, and which means does not interfere with the making up or changing of the bed clothes.

Another object is the provision of a mattress holder for beds in which sets of straps have their respective ends detachably connected to the spring frame and mattress, and which permits the turning and reversal of the mattress as is the usual custom.

A still further object is to provide a mattress holder which is simple of construction, inexpensive of manufacture and which may be applied to beds and mattresses now in use without requiring any radical changes in the construction thereof.

With these and other objects in view, the invention resides in the certain novel construction, combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claim and are illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of a hospital bed showing the spring in an adjusted position and with parts of the mattress broken away in section.

Figure 2 is an enlarged side elevation of the mattress.

Figure 3 is an enlarged detail vertical sectional view on the line 3—3 of Figure 2.

Figure 4 is a detail elevational view of one of the supporting straps.

Referring to the drawings by reference characters, the numeral 10 designates a hospital bed of the conventional type which includes an adjustable spring composed of a foldable head spring section 11, a foldable foot spring section 12, and intermediate foldable spring section 13. It will be appreciated that when the sections 11, 12, and 13 are in a lowered position, they provide a flat surface for the support of the mattress 14, but by raising the several sections the spring may be adjusted to accommodate a patient in a sitting or partially sitting position.

The mattress 14 is provided with spaced sets of eye members 15 along opposite sides thereof, the said members being connected to the sides of the mattress by fabric tabs 16 so as to be capable of folding flat against the sides of the mattress. The sets of eye members are so spaced that the supporting means to be presently described may be used irrespective as to which side of the mattress is face up or which end is disposed at the head and foot end of the bed.

The end bars 16′ of the head spring section 11 and of the foot spring section 12 are each provided with spaced openings 17, the said openings being disposed at equal distances on opposite sides of the center of the cross rails and engageable with the walls of the opening are the fastening elements in the nature of snap hooks 18 carried at the upper end of flexible straps 19. The other ends of the straps 19 carry similar snap hooks 20 for engagement with the eye members 15 adjacent the upper and lower ends of the mattress 14. In view of the fact that the eye members 15 are disposed at the sides of the mattress, the straps 19 of each set will be disposed in converging relation with respect to each other, as clearly shown in Figure 1 of the drawings. With the mattress connected to the springs in this manner any tendency of the mattress to shift or crease toward the foot end of the bed is arrested, and furthermore the mattress is prevented from lateral shifting by

reason of connecting opposite sides of the mattress to the springs through the medium of the respective sets of straps.

It will be noted that the straps 19 are disposed beneath the mattress to be concealed from view, and they do not interfere with the folding of the sheets and other bed clothing beneath the mattress when the bed is made up for use. As previously stated, by reason of the spaced relation of the eye members 15, the mattress may be turned around and reversed so as to change its position with respect to the spring, and still be connected to the springs by the respective sets of straps. This invention will prevent the effort now required in order to rearrange a mattress upon the springs caused by shifting of the same which is a hardship to nurses and other attendants to the sick and invalid.

While I have shown and described what I deem to be the most desirable embodiment of my invention, I wish it to be understood that various changes in construction may be resorted to if desired, and that I do not wish to limit myself to the details shown and described, nor to anything less than the whole of my invention limited only by the appended claim.

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

In combination with a bed having a foldable and adjustable bed spring, a mattress supported upon said spring, a double row of eye members attached to each side of the mattress, one row being arranged adjacent one face of the mattress and the other adjacent the other face, the end members of the spring frame having holes therein adjacent their centers, and a pair of straps for each end of the bed, each strap having a hook at each end thereof, one hook adapted to engage a hole in the spring frame and the other an eye member of a row at the bottom of the mattress, said straps extending diagonally from the ends of the bed to the sides thereof and being located under the mattress.

In testimony whereof I affix my signature.

MARY E. LEEKING.