MATTRESS HOLDING ATTACHMENT FOR BED RESTS

Filed Sept. 27, 1922
Mattress-Holding Attachment for Bed Rests.

Application filed September 27, 1922.  Serial No. 590,821.

To all whom it may concern:

Be it known that I, JOHN P. FREEMON, a citizen of the United States, residing at Waukesha, in the county of Waukesha and State of Wisconsin, have invented a new and useful Mattress-Holding Attachment for Bed Rests, of which the following is a specification.

This invention relates to a mattress holding attachment designed primarily for use upon beds such as used in hospitals or wherever it is desired to support one end of a mattress in an inclined position. Hereinafter frames or the like have been placed under the ends of mattresses so as to support said ends but after a short time the mattresses have shifted along the supplemental supporting means causing them to become misplaced.

One of the objects of the invention is to provide a means for gripping the mattress so that it will not shift but will, instead, be held securely to its supporting means.

With the foregoing and other objects in view which will appear as the description proceeds the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings—

Figure 1 is a side elevation of a portion of a bed showing the present improvements combined therewith.

Figure 2 is a plan view of a mattress support showing the fastening means combined therewith, parts being broken away.

Figure 3 is a section on line 3—3, Figure 1.

Figure 4 is a side elevation of one of the holding latches for fastening the mattress securing means in active position.

Figure 5 is a side elevation showing the device open.

Referring to the figures by characters of reference 1 designates a supplemental mattress support which, in the present instance, is in the form of a U-shaped rod the terminals of which are adapted to be supported by the bed bottom B while the upper or intermediate portion is adapted to rest on the upstanding end frame F, thus to support a portion of the mattress M in an inclined position as shown in figure 1. The sides of the frame 1 are connected by a cross bar 2 extending, at its ends, over the side portions of the frame 1 and having terminal heads 3 the lower ends of which lap the outer sides of the frame 1. A retaining tongue 4 is attached to the bar 2 near each end and extends under the adjacent side of the frame 1, thus to hold the parts properly assembled.

Spring strips 5 are secured to the bar 2 adjacent its ends and extend preferably at right angles therefrom and toward the upper or closed end of the frame 1. Each of these spring strips 5 has an upstanding ear 6 at its free end, the ears on the two strips 5 being connected by a rod 7. Links 8 are pivotally mounted on the rod 7 and pivotally engage studs 9 projecting from the ends of a gripping bar 10. This gripping bar is preferably angular in cross section.

A yoke 11 is pivotally mounted on the studs 9 extending from the bar 10 and extending from the sides of this yoke are elongated arcuate tongues 12 forming cams movable into engagement with studs 13 projecting laterally from the heads 3.

Latches 14 are pivotally mounted on the rod 7 and are adapted to engage the yoke 11 when said yoke is folded to the position shown in Figure 1.

In using the device herein described the latches 14 are disengaged from the yoke 11 and said yoke is swung upwardly about the studs 9 so as to withdraw the tongues 12 from engagement with the studs 13. The links 8 are then swung upwardly about the rods 7 so as to allow the yoke 11 to move upwardly away from the frame 1, thus lifting the bar 10 out of active position. The mattress M is placed on the frame 1 as shown in figure 1 after which the bar 10 is swung downwardly onto the mattress with the yoke 11 in upstanding position and the lower ends of the tongues 12 back of the studs 13. Yoke 11 is then swung downwardly toward the frame 1 and this will cause the fan shaped tongues 11 to slide under the studs 13 so as to draw the bar 10 downwardly and cause it to press into the mattress M as shown in Figure 1. When the yoke 11 is brought down to a predetermined position the latches 14 can be movably engaged therewith and the parts will thus be held together securely.

The mattress M will in this way be securely fastened and cannot slide downwardly along
the frame 1 but will be held properly in the position in which it has been placed.

What is claimed is:

1. The combination with a mattress supporting structure, of a yoke movably mounted relative thereto, a mattress gripping member carried by the yoke, and cooperating means upon the yoke and mattress supporting member for shifting the gripping member to clamp upon the supported mattress.

2. The combination with a mattress supporting structure, of a yoke movably mounted relative thereto, a mattress gripping member carried by the yoke, and cooperating means upon the yoke and mattress supporting member for shifting the gripping member to clamp upon the supported mattress, and means for engaging the yoke to hold the gripping member in mattress engaging position.

3. The combination with a mattress supporting structure, of a yoke movably mounted relative thereto, a mattress gripping member carried by the yoke, and means cooperating with the yoke, the mattress gripping member and the supporting structure for binding the gripping member upon the supported mattress.

4. The combination with a mattress supporting structure, of a yoke movably mounted relative thereto, a mattress gripping member carried by the yoke, means cooperating with the yoke, the mattress gripping member and the supporting structure for binding the gripping member upon the supported mattress, and means for engaging the yoke to hold the gripping member in latch engaging position.

5. The combination with a mattress supporting structure, of a yoke, link connections between the yoke and structure, a mattress gripping member carried by the yoke, cooperating means upon the yoke and mattress supporting structure for shifting said mattress gripping member into engagement with a supported mattress when the yoke is shifted to one position relative to the supporting structure.

6. The combination with a mattress supporting structure, of a yoke, link connections between the yoke and structure, a mattress gripping member carried by the yoke, cooperating means upon the yoke and mattress supporting structure for shifting said mattress gripping member into engagement with a supported mattress when the yoke is shifted to one position relative to the supporting structure, and means for holding the yoke with the mattress engaging member in gripping position.

7. The combination with a mattress supporting structure and a cross bar mounted thereon, of links connected to and mounted to swing with respect to said bar, a yoke pivotally mounted on the links, a mattress gripping bar carried by the yoke and links, cooperating means upon the yoke and the bar on the supporting structure for shifting the mattress gripping bar into active position when the yoke is moved relative to the supporting structure.

8. The combination with a mattress supporting structure and a cross bar mounted thereon, of links connected to and mounted to swing with respect to said bar, a yoke pivotally mounted on the links, a mattress gripping bar carried by the yoke and links, cooperating means upon the yoke and the bar on the supporting structure for shifting the mattress gripping bar into active position when the yoke is moved relative to the supporting structure, and means for engaging the yoke to hold the parts in mattress gripping position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN P. FREEMON.

Witnesses:

F. G. GUSTAFSON,
JEAN V. FREEMON.