

Sept. 18, 1928.

1,684,443

M. HARRIS

BEDCLOTHES CLAMP

Filed Sept. 30, 1927

Fig. 1.

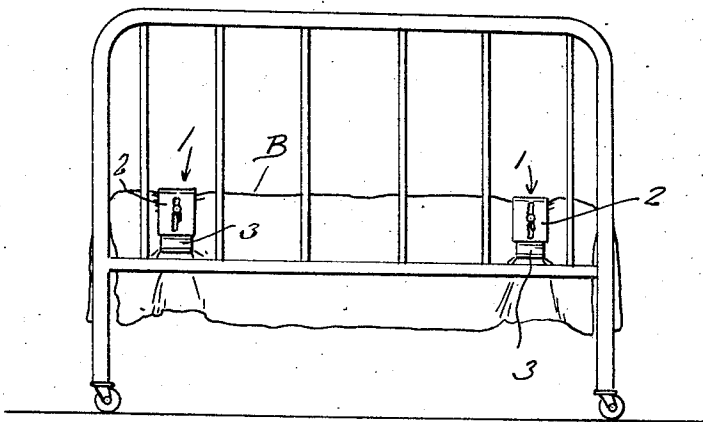


Fig. 5.

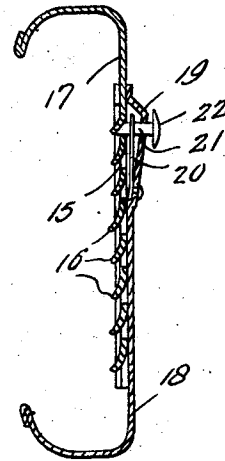


Fig. 2.

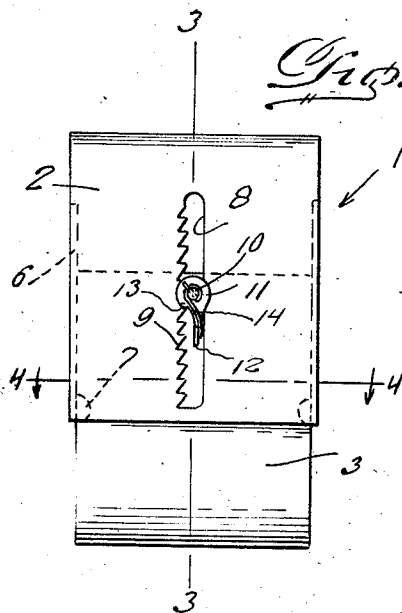
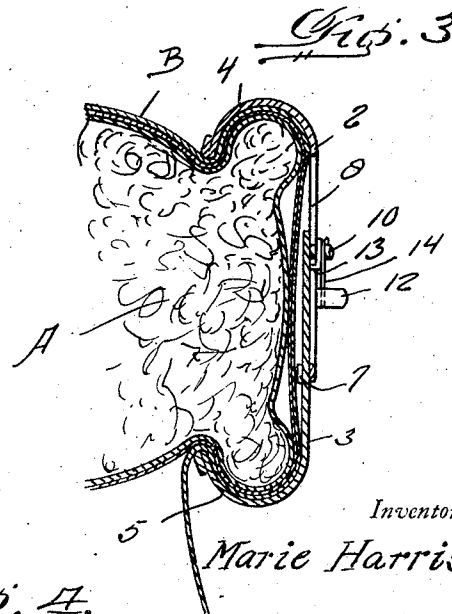


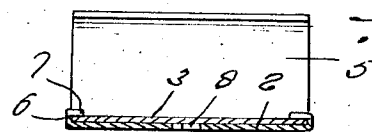
Fig. 3.



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Fig. 4.



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BEDCLOTHES CLAMP.

Application filed September 30, 1927. Serial No. 223,091.

The present invention relates to improvements in clamps and has reference more particularly to a device for association with a mattress and the bed clothing placed thereover for the purpose of securing the bed clothing to the mattress whereby to prevent the displacement of the bed clothing.

One of the important objects of the present invention is to provide a bed clothes clamp which includes a pair of complementary clamping sections adapted for adjustment in order to properly position the clamp over the edge of the mattress and the bed clothing, means being associated with the complementary clamping sections for locking the same in any adjusted position against outward movement.

A still further object is to provide a bed clothes clamp of the above mentioned character which is simple in construction, inexpensive, strong and durable and further well adapted to the purpose for which it is designed.

Other objects and advantages of the invention will become apparent from the following description when taken in connection with the accompanying drawing.

In the accompanying drawing forming part of this application and in which like numerals indicate like parts:

Figure 1 is a side elevation of one form of the bed clothes clamp showing the same in use.

Figure 2 is a side elevation of the bed clothes clamp for disclosing more clearly the locking means.

Figure 3 is a sectional view taken on the line 3—3 of Figure 2 showing the manner in which the clamp retains the bed clothes on the mattress.

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 2, and

Figure 5 is a view similar to Figure 3 showing a modified form of the clamp.

In the drawing wherein for the purpose of illustration is shown the preferred embodiment of my invention with reference more particularly to Figures 1 to 4, inclusive, the numeral 1 designates generally my improved bed clothes clamp, the same comprising a pair of complementary clamping sections designated by the numerals 2 and 3, respectively.

Each section includes a substantially rectangular reinforced sheet metal plate, the

inner opposed ends of these plates being disposed in overlapping relation and as is clearly illustrated in Figure 3, the upper edge portion of the plate-like section 2 is formed with a downwardly curved jaw 4 while the other plate-like section 3 is formed at its lower or outer end with the upwardly curved jaw 5. The free edges of these jaws are preferably rolled over, beaded or bent back upon themselves to prevent the edges of the jaws tearing or otherwise defacing the bed clothing.

Formed at the side edges of the outer plate-like section 2 are inwardly extending longitudinal ribs 6 between which is slidable the inner plate section 3 in the manner as clearly illustrated in Figures 2 and 4. For the purpose of preventing lateral movement of the plate-like sections with respect to each other, the outer plate-like section 2 is further formed with the laterally extending ears 7 which extend inwardly from the lower ends of the guide ribs 6 as indicated in Figures 2 and 4, and these ears will engage the inner face of the inner plate-like section 3.

The outer plate-like section 2 is formed with a longitudinally extending slot 8 in the central portion thereof, and this slot extends from a point adjacent the lower edge of the plate-like section to a point adjacent the jaw 4 formed at the opposite edge of said plate-like section. One side edge of this slot is formed with the ratchet teeth 9 as clearly shown in Figure 2.

Projecting outwardly from the inner plate-like section 3 adjacent the upper edge thereof and adapted for disposition through the longitudinal slot formed in the outer plate-like section is the pin 10. A lever 11 is pivoted on this pin and is disposed on the outside of the outer plate-like section 2. The free end of this lever is formed with a laterally extending thumb engaging portion 12, while the pivoted end of the lever is so constructed as to provide an inwardly extending pawl 13 which cooperates with the ratchet teeth 9 and is normally held in engagement with the ratchet teeth by means of the axial coil spring 14 which is associated with the pin 10 and the lever 11 in the manner clearly illustrated in Figures 2 and 3.

The ratchet teeth 9 are so formed as to permit the downward sliding movement of the outer section 2 so that the complementary sections may be brought in tight engagement

around one edge of a mattress A and the adjacent portion of the bed clothing B. The manner in which the opposed jaws 4 and 5 grip the edge portions of the mattress and the adjacent portions of the bed clothing is clearly shown in Figure 3.

The pawl 13 will cooperate with the ratchet teeth in preventing the upward sliding movement of the outer section 2 with respect to the inner section 3 and whenever it becomes necessary to remove the clamp, the finger piece 12 is actuated so as to release the pawl from engagement with the ratchet teeth 9 whereby to permit the sliding movement of the complementary plate like sections in opposite directions outwardly, thus enabling the clamp to be entirely disengaged from the bed clothing and the mattress.

In Figure 5 of the drawing, I have shown a modification of the locking means wherein one of the plate-like sections is formed with a series of vertically spaced indentures indicated at 15. These indentures are formed by striking out the tongues 16 and these tongues are disposed inwardly of the plate-like section 17. The complementary plate-like section 18 has its intermediate portion stamped out to form a housing 19, and secured at one end in the closed end of the housing is the spring 20, the other end of the spring being operatively connected with a latch 21 which is slidable through a transverse opening formed in the opposite end portion of the housing. This latch is formed at its outer end with a thumb engaging head 22 while the inner end of the latch is beveled for cooperation with the tongues 16 and the indentures 15 as clearly illustrated in Figure 5.

Normally the spring 20 maintains the beveled inner end of the latch 21 in engagement with one of the indentures so that sliding movement of the complementary plate-like sections in one direction is prevented. However, by pulling outwardly on the head 22, the inner end of the latch is disengaged from the

indentures, and said plate-like sections are free for slidable movement in either direction.

It will thus be seen from the foregoing description, that I have provided a highly novel, yet simple bed clothes clamp which can be readily and easily adjusted and which will at all times be positive and efficient in retaining sheets and other bed clothing on a mattress in proper position, and this without tearing or otherwise injuring the bed clothing or mattress with which the device is to be associated.

A bed clothes clamp of the above mentioned character may be manufactured at a very low cost and due to its simplicity, the parts can be easily adjusted.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claim.

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

In a bed clothes clamp of the class described, a pair of complementary inner and outer plate-like sections having their inner opposed ends arranged in overlapped relations, the outer ends of the sections being bent to form opposed gripping jaws, inwardly extending ribs formed on the side edges of the outer section between which the inner plate like section is slidable, laterally extending ears formed on said ribs for maintaining the inner plate-like section in engagement with the inner face of the outer section, means for locking the complementary sections against sliding movement in one direction, said last mentioned means comprising a pawl and ratchet arrangement associated with said inner and outer plate like sections.

In testimony whereof I affix my signature.
MARIE HARRIS.