March 26, 1940. L. S. SHAUER 2,195,039

BED SHEET

Filed Jan. 3, 1938 2 Sheets-Sheet 1

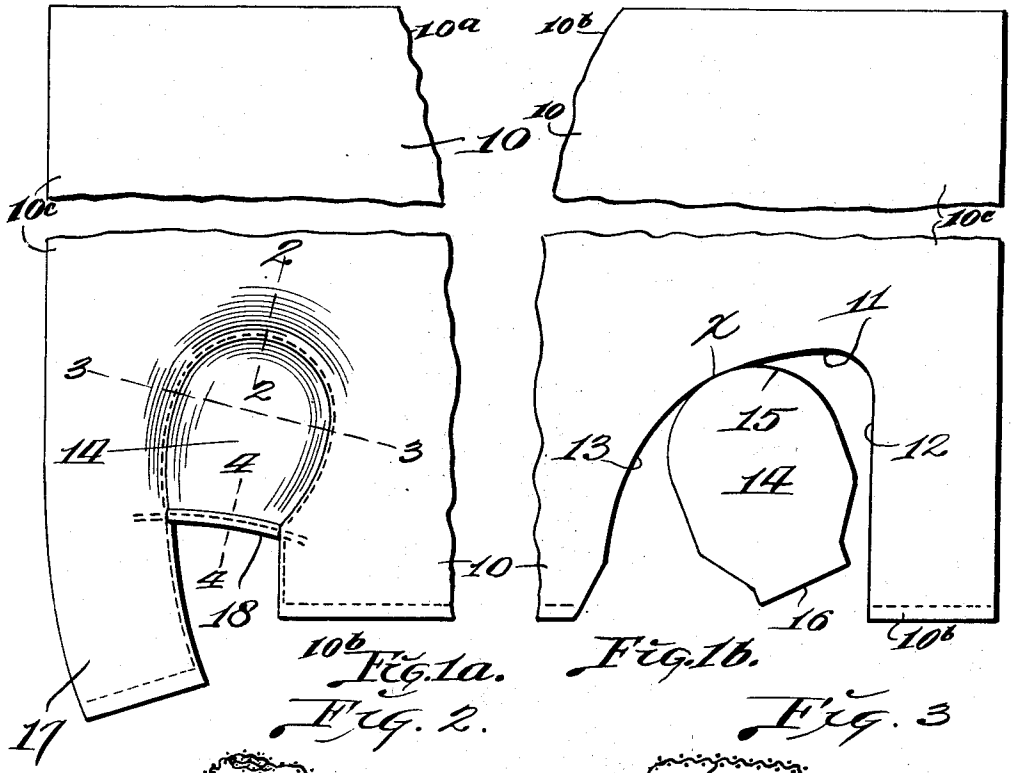

Fig. 1a. Fig. 1b.

Fig. 2.

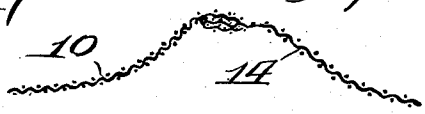

Fig. 3

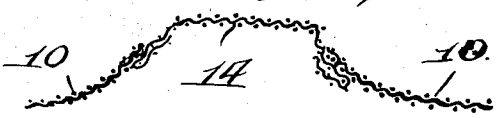

Fig. 4

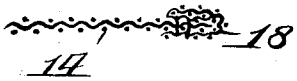

Fig. 5.

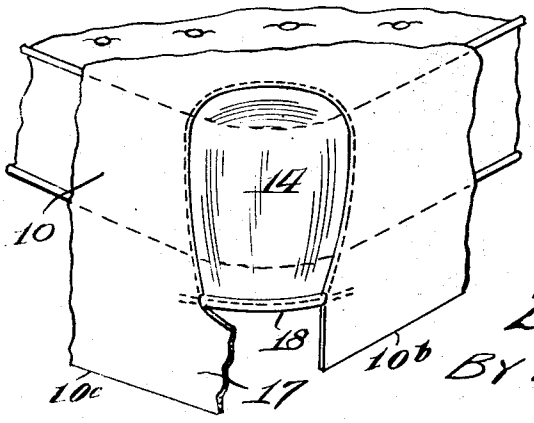

Fig. 6.

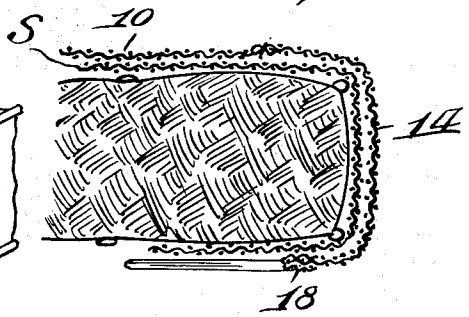

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FIG. 7

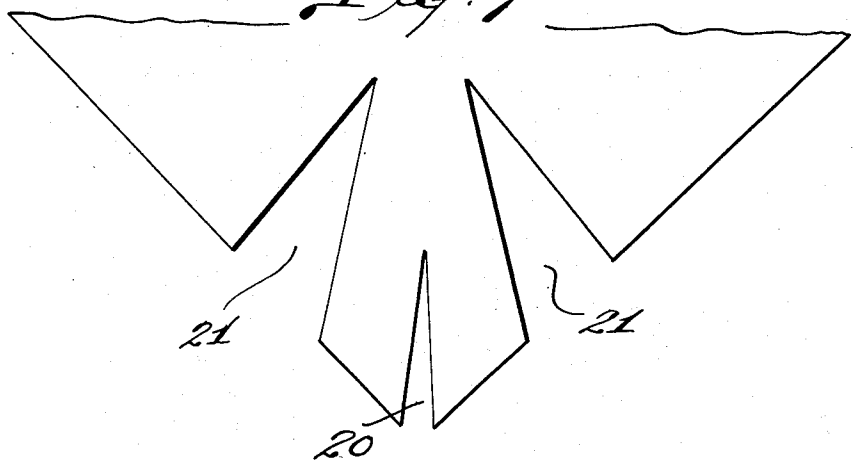
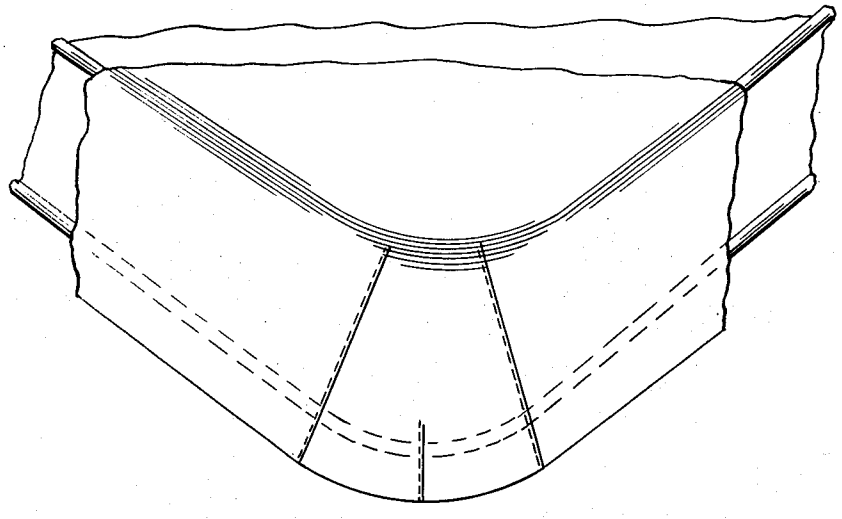


FIG. 8.



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Patented Mar. 26, 1940 2,195,039

UNITED STATES PATENT OFFICE

2,195,039

BED SHEET

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Application January 3, 1938, Serial No. 183,100

4 Claims. (Cl. 5—334)

My invention relates generally to beds, and more particularly to a top sheet for beds and has for its principal object the provision of a relatively simple, practical and inexpensive top sheet having its lower or foot end, and particularly the foot corners, constructed so as to fit over the foot end and corners of the underlying mattress so that the sheet cannot be pulled upwardly away from the foot end of the mattress by the occupant of the bed, and the particular construction of the foot end of the sheet being such as to maintain the sheet in smooth condition when properly applied to the mattress.

It is well-known that sheets, and particularly the top sheets, are liable to draw up from the bed or foot portion of the bed, thus leaving the feet of the occupant of the bed uncovered, and it is one of the principal objects of my invention to construct the foot portion of the sheet so that it engages the foot corners of the mattress in such a manner as to effectually prevent being pulled lengthwise toward the head of the bed by the occupant thereof.

A further object of my invention is, to construct a top bed sheet so that it will fit smoothly and without wrinkles over the sides and foot portion of the mattress, and portions of which sheet are adapted to be folded beneath the mattress to enhance or render more effective the connection between the sheet and mattress.

A further object of my invention is to provide a top sheet of the character referred to that does not require any additional material in its construction, beyond the amount of material used in the production of conventional bed sheets of standard sizes.

With the foregoing and other objects in view, my invention consists in certain novel features of construction and arrangements of parts that will be hereinafter more fully described and claimed and illustrated in the accompanying drawings in which:

Fig. 1 is a plan view of the left hand portion of a bed sheet constructed in accordance with my invention, with portions thereof broken away.

Fig. 1*a* is a top plan view of the right hand portion of a bed sheet with parts broken away and showing an insert positioned in a notch that is formed in the lower end of the sheet adjacent the right hand edge thereof to form a bulge in the lower corner of the sheet after the insert has been properly secured to the edges of the notch.

Fig. 2 is a large detail section taken on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged cross-section taken on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged detail section taken on the line 4—4 of Fig. 1.

Fig. 5 is a perspective view of one of the foot corners of a mattress, and showing the lower corners of my improved sheet in position thereupon.

Fig. 6 is a sectional view taken through the corner portion of a mattres and showing my improved top sheet in position thereon over the under or bottom sheet.

Fig. 7 is a plan view of the corner portion of a modified form of the top sheet after the same has been cut in accordance with my invention, and before the edges of the cuts have been secured by stitching or otherwise to each other.

Fig. 8 is a perspective view of the corner of a mattress and showing the corner portion of the modified form of top sheet positioned thereupon.

Referring by numerals to the accompanying drawings, and particularly to the construction illustrated in Figs 1 to 6 inclusive, 10 designates the body of the sheet which is formed of suitable fabric preferably in a single piece, and having longitudinal and transverse dimensions greater than the corresponding dimensions of the mattress on which the sheet is to be used. This sheet is provided adjacent its lower corners with recesses or pockets for the accommodation of the foot corners of the mattress, said pockets or recesses being inset from the sides and lower edge of the sheet so as to leave portions of material several inches in width that may be tucked or folded into position beneath the mattress when the sheet is applied thereto. In Figs. 1 and 1*a*, 10*a* designates the top or upper edge of the sheet, 10*b* the lower or bottom edge, and 10*c* the side edges. In Fig. 5, 10*b* designates the lower or bottom edge of the sheet and 10*c* the side edge thereof.

In order to form these pockets, a substantially triangular portion is cut from the material adjacent the lower edge of the sheet, thus leaving a corresponding substantially triangular opening 11 having one straight edge 12 that occupies a position parallel with and spaced inwardly from the side edge of the sheet, and extending from the inner end of this straight edge 12 is a curved edge 13 that terminates on the bottom edge of the sheet a short distance inwardly from the end of the edge 12 that joins the lower edge of the body of the sheet.

The distance between the points where the curved edges 13 join the lower edge of the body

of the sheet corresponds with the width of the mattress to which the sheet is to be applied, and thus sufficient material is left at the sides of the body of the sheet to be folded down over the sides of the mattress and to extend suitable distances inwardly beneath the mattress adjacent the sides thereof.

Cut from the triangular sections of material that are cut from the body of the sheet to form the substantially triangular openings 11 are substantially oval pieces of fabric 14, the width of each piece being considerably less than the width of the opening 11. One end of this piece 14 is substantially semi-circular in shape, as designated by 15, and the opposite end is provided with a straight edge 16, the length of which is somewhat less than the greatest width of the piece 14.

The piece of material 14 thus produced from the section of material cut from the sheet to form the opening 11, and which otherwise would be waste material, is positioned in the opening 11 with the center or apex of its rounded end positioned against the curved edge 13 at the point designated by X, Fig. 1*a*, and the curved end 15 of the inserted piece and the side edges thereof are secured to the curved edge 13 and to the straight edge 12 by stitching, thus providing in the foot corners of the sheet, pockets or recesses that bulge outwardly from the plane occupied by the sheet and which outward bulge is shown in Figs. 2 and 3. This insertion of the piece 14 in the body of the sheet produces an end extension 17 of the material at the side of the opening 14, below the inserted member, and which extension provided a flap that is folded into position beneath the mattress to which the sheet is applied, thus serving to increase and render more effective the connection between the foot portion of the sheet and the mattress. Inasmuch as member 14 is inset a considerable distance with respect to the lower foot edge of the sheet, a substantial portion of the body of the sheet at the foot end thereof extends beyond the unattached edge of the inserted member and when the sheet is applied to the bed this projecting end portion is folded into position beneath the foot end of the mattress and which arrangement is of material advantage in aiding the sheet to maintain its proper position upon the mattress and resist upward pulling strains.

Secured to the lower straight edge of the inserted member 14, is a re-inforcing strip or binding member 18 of fabric, the ends thereof being extended on the under face of the sheet beyond the ends of the straight edge and these extended ends are secured by stitching or otherwise to the fabric of the sheet.

This member 18 re-enforces the connection between the lower corners of the inserted member 14 and the sheet.

When my improved top sheet is applied for use, it is placed directly on top of the under sheet S, which latter is applied directly to the mattress and the bulging pockets or recesses 14 receive the corners of the mattress. The sides and lower or bottom edge of the sheet are folded inwardly and tucked into position beneath the mattress, and as a result, the entire lower portion of the top sheet, and particularly the corners thereof, are connected to the mattress so as to effectively prevent the top sheet from being pulled upwardly away from the foot of the mattress by the occupant of the bed. Further, the connection between my improved top sheet and the mattress is effective in holding the bottom sheet in proper position upon the mattress and tends to maintain the same in a smooth unwrinkled position.

In the modified construction illustrated in Fig. 7, each corner of the top sheet has a portion cut away to form a relatively narrow elongated V-shaped notch 20 that extends inwardly from the point where the side and end edges of the sheet meet, and substantially larger portions of the fabric to the sides of this notch 20 are removed to form elongated V-shaped notches 21.

The respective edges of the notches 20 and 21 are brought together and secured by stitching or otherwise, with the result that bulging pockets or recesses are formed in the lower corners of the sheet, which pockets or recesses receive the corners of the mattress and provide a very firm connection between the mattress and sheet. Portions of the side and lower end of the sheet extend downwardly over the sides of the mattress and the marginal portions are tucked or folded into position beneath the mattress, thus increasing the connection between the sheet and mattress.

Thus it will be seen that I have provided a top bed sheet that is relatively simple in construction, inexpensive of manufacture and very effective in performing the functions for which it is intended.

The sheet may be easily and quickly applied to or removed from the mattress, and due to the provision of the outwardly bulging corner portions and the provision of a substantial portion at the foot end of the sheet beyond the bulging corners to be tucked under the foot end of the mattress, it is practically impossible to pull the lower portion of the sheet upwardly away from the foot portion of the mattress.

By my improved construction, a substantial saving of material is effected in the manufacture of the sheets, and by providing the mattress corner receiving pockets in the lower portion of the sheet for preventing the sheet from pulling upwardly away from the foot of the mattress, the amount of material required in the length of the sheet is considerably less than where the sheets are of the conventional construction which includes a substantial amount of material to be folded or tucked in beneath the bottom of the mattress.

Obviously, sheets of my improved construction may be used as the under or bottom sheets that are placed directly on top of the mattress, or as the upper or top sheets as herein described.

It will be understood that minor changes in the size, form and construction of the various parts of my improved bed sheet may be made and substituted for those herein shown and described without departing from the spirit of my invention, the scope of which is set forth in the appended claims. I claim as my invention:

1. As a new article of manufacture, a bed sheet having portions near its lower corners cut away and fabric members inserted in said cut away portions and having substantial portions of their edges secured to the bed sheet to form outwardly bulging pockets for the accommodation of the corners of the mattress to which the sheet is applied the size of said inserted members being substantially less than the size of the cut away portions so that portions of the body of the sheet project beyond the free edges of the inserted members.

2. As a new article of manufacture, a bed

sheet provided with openings adjacent its lower corners and substantially oval-shaped members having the greater portions of their edges secured to the edges of said openings to form outwardly bulging pockets for the reception of the corners of the mattress to which the sheet is applied the size of which substantially oval-shaped members is less than the size of the openings in which they are positioned, so that portions of the bottom and sides of the sheet project beyond the free edges of said substantially oval-shaped members.

3. As a new article of manufacture, a bed sheet provided adjacent its lower corners with openings that extend inwardly from the lower edge of the sheet, substantially oval-shaped members inserted in said openings to form outwardly bulging pockets for the reception of the corners of the mattress to which the sheet is applied and which inserted members are inset a substantial distance from the side and bottom edges of the sheet so as to provide portions at the sides and bottom edge of the sheet that are adapted to be folded beneath the mattress to which the sheet is applied.

4. As a new article of manufacture, a bed sheet having portions adjacent its lower corners removed to form openings that extend inwardly from the lower edge of the sheet and sections of flexible material positioned wholly within said openings, with the greater portions of their edges secured to the edges of the sheet around the openings therein, which inserted sections of flexible material are smaller in size than the openings that are formed in the fabric of said sheet so that said inserted sections of flexible material are inset substantial distances from the sides and bottom edges of the sheet and there being one section of flexible material inserted in each opening in the sheet.

LOUIS S. SHAUER.