April 27, 1954 G. L. GARRIOTT ET AL 2,676,340

BEDCOVER SUPPORT

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FIG. 1

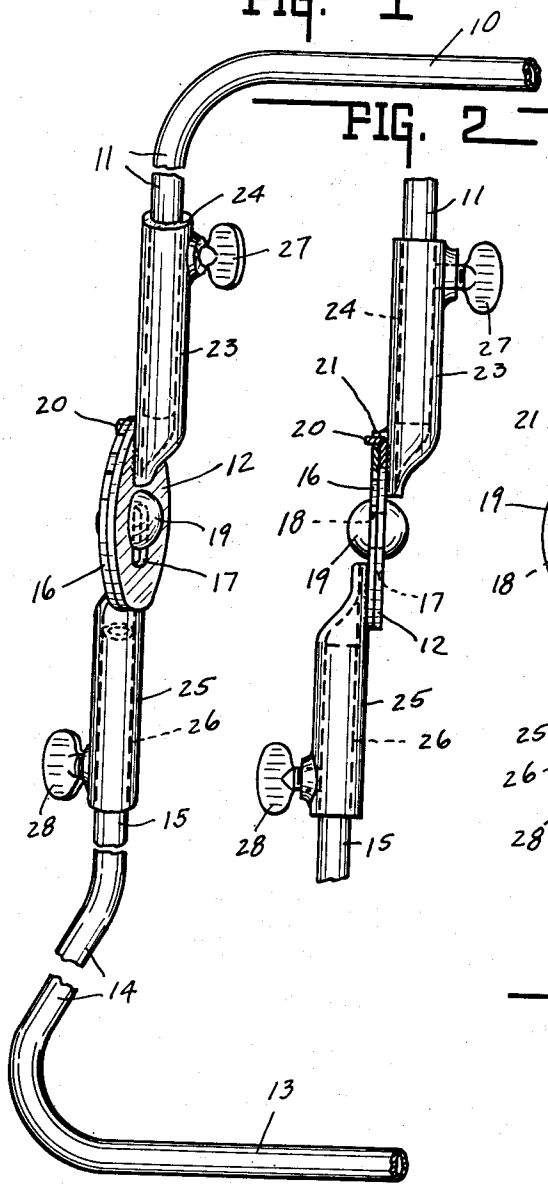


FIG. 2

FIG. 3

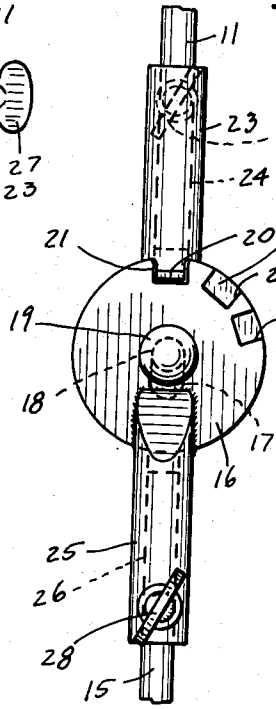


FIG. 4

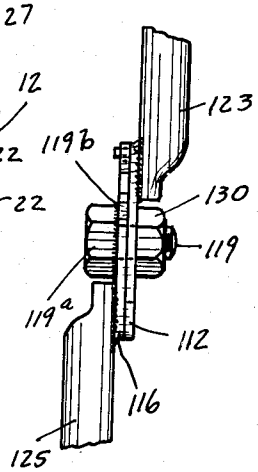
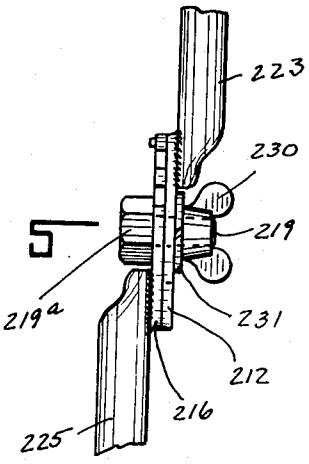


FIG. 5



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2,676,340

BEDCOVER SUPPORT

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1 Claim. (Cl. 5—319)

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This invention relates to a bed cover support.

The chief object of this invention is to provide a bed cover support which can be applied under the mattress and beneath it and the springs, and which support is comprised of but few parts and these of simple construction and which can be collapsed for storage or transportation purposes and which can be adjusted if desired.

The chief feature of the invention resides in pivotally associating two U-shaped members at the confronting ends of their arm portions, at least one of said members at least having in each arm portion a transverse offset portion whereby the mid-portion of the U-shaped member is disposed in offset relation to the plane including the arms of that member which terminate in pivotal connections.

Another feature of the invention resides in providing extensible arms.

A further feature of the invention resides in the plate terminations of said U-shaped members and the lost motion pivotal connection therebetween.

Other objects and features of the invention will be set forth more fully hereinafter.

The full nature of the invention will be understood from the accompanying drawings and the following description and claim.

In Fig. 1 of the drawings there is illustrated a perspective view of the left end portion of a bed cover support embodying the invention, the same being of the desired width corresponding to the width of the bed.

Fig. 2 is an elevational view of the pivotal and telescopic connections included in the adjacent ends of the U-shaped members.

Fig. 3 is an elevational view of the same taken at right angles to that shown in Fig. 2.

Fig. 4 is a view similar to Fig. 2 and of a modified form of the invention.

Fig. 5 is a view similar to Fig. 4 and of a still more modified form of the invention.

In Figs. 1 to 3 of the drawings there is illustrated an extensible embodiment of the invention. Therein there is provided a U-shaped means which includes a mid-portion 10 and right angularly disposed arms 11 that are operably associated with plates 12. A second U-shaped means is provided having a mid-portion 13. The arms of this means are first directed at 14 at substantially right angles to said mid-portion 13 and in the same horizontal plane therewith, and then are directed vertically upwardly at 15 at substantially right angles to arm portion 14.

The arms 11 of said first U-shaped means are

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normally disposed, when the device of the invention is in use, in opposed, facing or confronting relationship to the arm portions 15 of said second means. Said arm portions 15 are each operably associated with a plate 16. The plates 16 are disposed respectively in lapping relation to the plates 12.

It will be understood with respect to said second U-shaped means that said arm portions 14 are offset from the longitudinal plane of said mid-portion 13. However, they are in the same horizontal plane therewith and serve as a base to prevent the device of the invention from tilting under the weight of bed clothes.

As previously indicated the portion 13 is disposed under the mattress and between it and the springs. The portion 10 is thus projected above the mattress in such manner that it can support bed clothes in spaced relation thereto. The weight of the bed clothes is thus taken off the feet of the occupant of the bed.

Herein each of the plates 12 and 16 are suitably apertured as at 17 and 18 respectively. The plates are shown as circular in outline. A rivet 19 permanently connects the plates together although the rivet is of such character that the plates may, despite such permanent connection, nevertheless be rotated one with respect to the other. Herein the opening 17 is elongated as shown more clearly in Figs. 1 and 3.

Projecting laterally relative to the arm portions of one means and formed from a portion of the plates is a tongue 20 directed toward the other plate and seatable in a notch 21 formed in that other plate. The tongue 20 is disposed in longitudinal alignment with the arm 11 and the longitudinal axis of the slot 17.

When it is desired to provide for the positioning of the cross member or mid-portion 10 at other than the immediately vertically disposed upright relation the plate 16 may be provided with additional notches 22 arcuately offset from each other and the notch 21.

Whenever it is desired to collapse the structure the two U-shaped means are pulled apart as it were to the extent permitted by the slot 17 at the aligned pivotal connections of the complete structure and then the two means can be brought together for storage and transportation purposes. When the device is to be utilized portions are reversely actuated and tongues 20 seated in the slot 21 or 22 as desired.

To provide further adjustment whenever desired or required each of the arm end portions are receivable in a tubular socket, such as socket

23, of elongated character and having bore 24 therein and socket 25 of elongated character having bore 26 therein, the same telescopically receiving the arm portions 11 and 15 respectively and the same being secured in said bores at the adjusted position by suitable means such as the thumb screws 27 and 28 respectively.

Herein each plate is rigidly secured to, or if desired, formed integral with, the socketed end previously described. Also the cross-bar portion with the arm portions are integral and as shown may comprise metallic or like tubing. Thus the resulting structure is not only collapsible, extensibly adjustable, but is of relatively light weight even when fabricated of metal.

Referring to Fig. 4 wherein a modified form of the invention is illustrated, it will be noted that the socketed members and rigidly connected plates with the latching means are substantially the same as previously described.

However, in this form of the invention, instead of the so-called permanent rivet, a bolt having its head portion 119*a* is herein shown welded as at 119*b* to the plate 116. The stud portion 119 mounts a nut 130 that completes the pivotal connection and the free end 119 may be peened over if desired to effect a permanent connection against loss of nut 130.

In the embodiment illustrated in Fig. 5 it will be noted that the bolt having head portion 219*a* and the threaded shank 219 is independent of the plates and associated with said shank is the wing nut 230 and the lock washer 231.

The foregoing constitutes the preferred embodiments of the invention but it will be obvious to persons skilled in the art that the plate 16 might be longitudinally slotted and the tongue provided on the same plate in alignment with the arm or socket member connection thereto and the other plate include the notch or notches.

Various other reverse forms may be utilized with respect to other phases of the invention, the scope thereof being defined by the appended claim.

The invention claimed is:

A bed cover support comprising a base section to be disposed beneath a bed mattress and a bed cover supporting section to be disposed above said mattress, said sections each having a pair of tubular rod members having their ends in proximate offset relationship, an arcuate plate formed at each of said ends and disposed in parallelism with each other, said plates having centrally disposed openings in registry with each other, a pivot pin passing through said openings to hold the plates in pivotal relationship, one of said plates having spaced notches in its periphery, a tongue projecting from the other of said plates in the direction of its companion plate and near the periphery of the same to engage selectively in said notches, one of said plates having an elongated slot therein constituting a continuation of the pivot opening of said plate whereby to slidably receive said pivot pin to permit one plate to move in parallelism with respect to the other, whereby said plates may be moved to such positions with respect to one another as to engage or disengage said tongue in said slots.

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