June 23, 1953 M. L. COBB 2,642,589

BEDCLOTHES SUPPORT

Filed Aug. 21, 1951

Fig. 1.

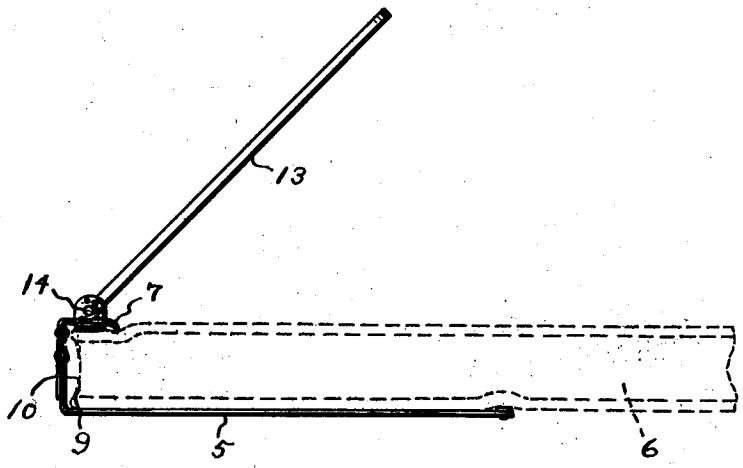


Fig. 2.

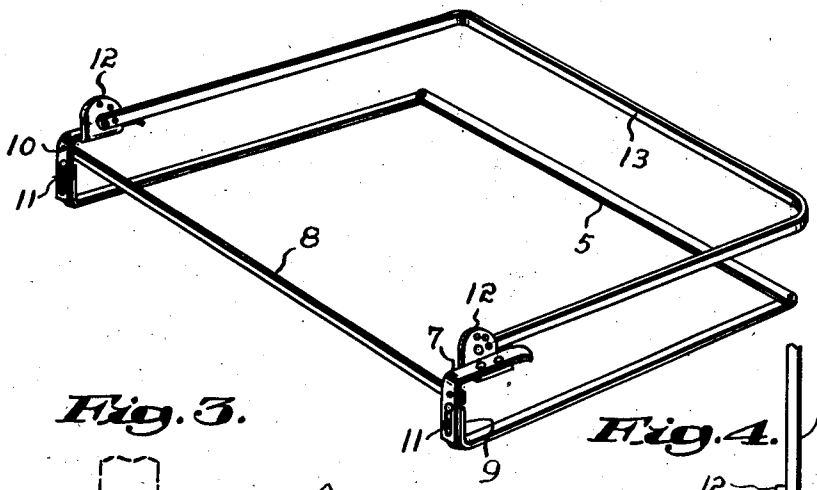


Fig. 3.

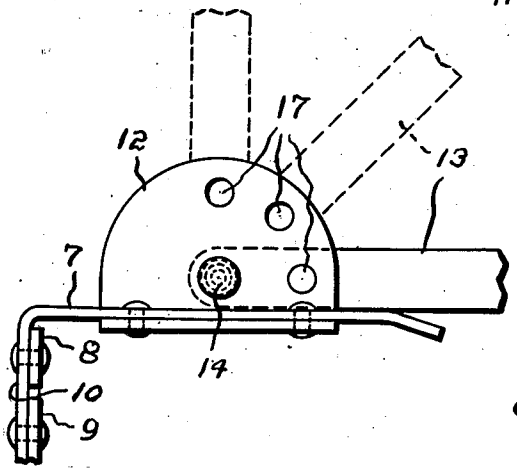
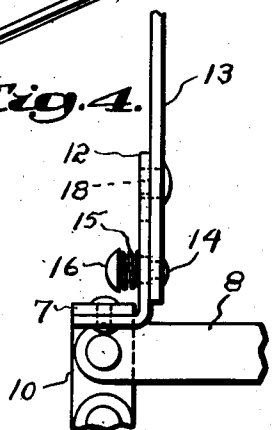


Fig. 4.



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BEDCLOTHES SUPPORT

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5 Claims. (Cl. 5—319)

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This invention relates to a support attachable to a mattress and readily adjustable into any one of a plurality of predetermined positions to so support the bed clothes that the bed occupant is relieved of the weight thereof.

It is obvious that, in a hospital, there are many instances where it is either desirable or necessary to free a patient in whole or in part from the weight of the bed clothes. This is most readily appreciated in the case of foot injuries but, in addition, there are many persons whose ability to sleep is seriously affected by discomfort resulting solely from the weight of bed clothes on their feet.

In accordance with the invention, a bed clothes support consists of a base having vertically spaced parts which receive between them a portion of the mattress and these are preferably adjustably interconnected to ensure a suitable grip on the mattress regardless of its thickness. A bed clothes supporting element is pivotably connected to the base to swing from a position flat against the mattress upwardly into any one of a plurality of predetermined positions. In each of those positions, the element is securely locked but the connection between it and the base is preferably such that the element may be quickly and easily released to be re-positioned or folded against the mattress without disturbing covering bed clothes.

In the accompanying drawings, an illustrative embodiment of the invention is shown from which its novel features and advantages will be readily appreciated.

In the drawings,

Fig. 1 is a side view of a support attached to a mattress with the support in one of its predetermined positions of use,

Fig. 2 is a perspective view of the support in its collapsed position and removed from the mattress,

Fig. 3 is a fragmentary side view, on an enlarged scale, showing the connection between the base and the bed clothes supporting element, and

Fig. 4 is an end view, on a similar scale, showing that connection.

The support, shown in the drawings, consists of a base in the form of a U-shaped member 5 engageable with the under surface of the mattress 6, and an upper part consisting of a pair of arms 7 engageable with the upper mattress surface. The arms 7 are interconnected by the cross piece 8. The extremities 9 of the member 5 are upturned and the extremities 10 of the arms 7 are downturned and these extremities

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have a slotted adjustable interconnection 11 enabling the base parts to be vertically spaced to grip the mattress suitably.

Each of the arms 7 is shown as having a mount 12. The mounts 12 are transversely alined and receive between them the ends of the U-shaped bed clothes supporting element 13 which is preferably made of resilient stock. A pivot 14 extends through each mount 12 and is secured to the adjacent end of the element 13 to enable the element 13 to swing upwardly from a mattress engaging position into positions of use.

As may be seen in Fig. 4, each pivot 14 is of sufficient length so that when the ends of the element are pressed towards each other, said ends may move away from the mounts. Such movement is yieldably resisted by springs 15, there being one such spring supported by each pivot and located between its head 16 and the adjacent mount 12.

At least one and preferably both mounts 12 are provided with a series of recesses 17 which are arranged arcuately with respect to the pivot axis and their functon is to receive the locking member 18 of which there is preferably one on both ends of the element 13. By these or equivalent means a suitable range of preestablished positions of the element 13 is provided. When the locking members 18 are entrant of corresponding recesses, the element 13 is locked against swinging movement. The function of the pivot connection between the element 13 and the base is to enable the ends of the element to be moved away from the mounts a sufficient distance to effect the disengagement of the locking members 18 from the mounts to enable the position of the element 13 relative to the base to be changed. It will be appreciated that such disengagement may be effected through covering bed clothes.

Bed clothes supports in accordance with the invention are inexpensive to manufacture and convenient in use and are well adapted to meet the requirements of both home and hospital service.

What I therefore claim and desire to secure by Letters Patent is:

1. A bed clothes support attachable to a mattress, said support comprising a base including parts vertically spaced and interconnected to receive a portion of said mattress between them and a pair of transversely alined and vertically disposed mounts carried by the uppermost part in the zone of its interconnection with the lowermost part and a U-shaped supporting element,

the ends of said element and said mounts including portions interengageable to connect said element to said base in any one of a plurality of pre-established positions.

2. A bed clothes support for attachment to a mattress, said support comprising a base including a U-shaped part to engage the under surface of said mattress and having its extremities upturned, a pair of arms to engage the upper surface of said mattress having their extremities down-turned and an adjustable connection between each arm extremity and a corresponding base extremity to interconnect said mattress engaging parts in mattress gripping relationship, a U-shaped supporting element, and a mount on each of said arms, said mounts and the ends of said element including portions interengageable to connect said element to said base in any one of a plurality of pre-established positions.

3. A bed clothes support attachable to a mattress, said support comprising a base including parts vertically spaced to receive a portion of said mattress between them and a pair of transversely alined mounts, and a U-shaped supporting element of resilient stock, the ends of said element being located between said mounts and normally engaging therewith, a pivot loosely connecting each extremity to a mount to enable said element to swing upwardly and downwardly with respect to said mattress and said element ends to be moved towards each other relative to said mounts to establish a released position, each mount having a series of recesses arcuately disposed with respect to the pivot axis, and a member carried by each element end to enter into a recess to lock said element in a predetermined position except when said ends are in their released position.

4. A bed clothes support attachable to a mattress, said support comprising a base including parts vertically spaced to receive a portion of said mattress between them and a pair of transversely alined mounts, and a U-shaped supporting element, a pivot interconnecting each element end to a mount to enable said element to be swung upwardly and downwardly with respect to said base, at least one pivot being of sufficient length to enable the element end through which it extends to be moved along the pivot axis away from its mount, a spring carried by that pivot yieldably preventing such sliding movement, the adjacent mount having a series of recesses arranged arcuately with respect to the pivot axis, and a member carried by the adjacent arm to enter any one of said recesses except when said arm is slid along its pivot against the action of said spring.

5. A bed clothes support attachable to a mattress, said support comprising a base including parts vertically spaced to receive a portion of said mattress between them and a pair of transversely alined mounts, and a U-shaped supporting element, a pivot interconnecting each element end to a mount to enable said element to be swung upwardly and downwardly with respect to said base, each pivot being of sufficient length to enable the element end through which it extends to be moved along the pivot axis away from the mount to which it is connected, a spring carried by each pivot yieldably holding said ends against such sliding movement, each of said mounts having a series of recesses arranged arcuately with respect to the pivot axis, and a member carried by each arm to enter any one of the recesses of the adjacent mount except when said arms are slid along said pivots against the action of said springs.

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