July 12, 1966 C. J. BATTERAM 3,259,923

BED ATTACHED SHELF

Filed June 19, 1964

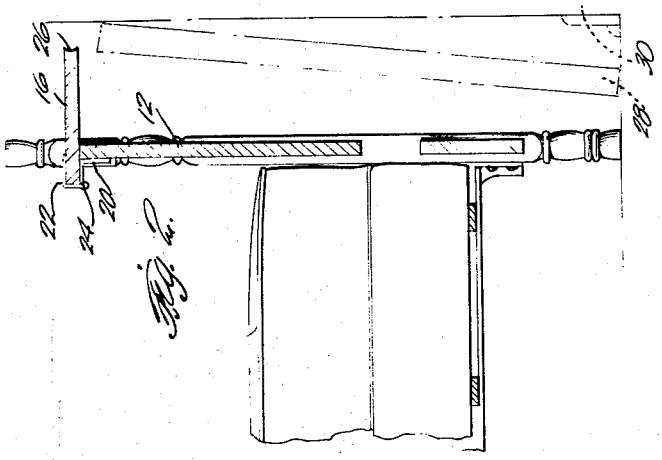


Fig. 5.

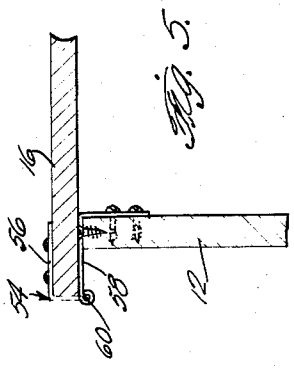


Fig. 4.

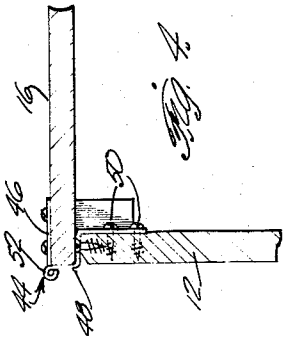


Fig. 1.

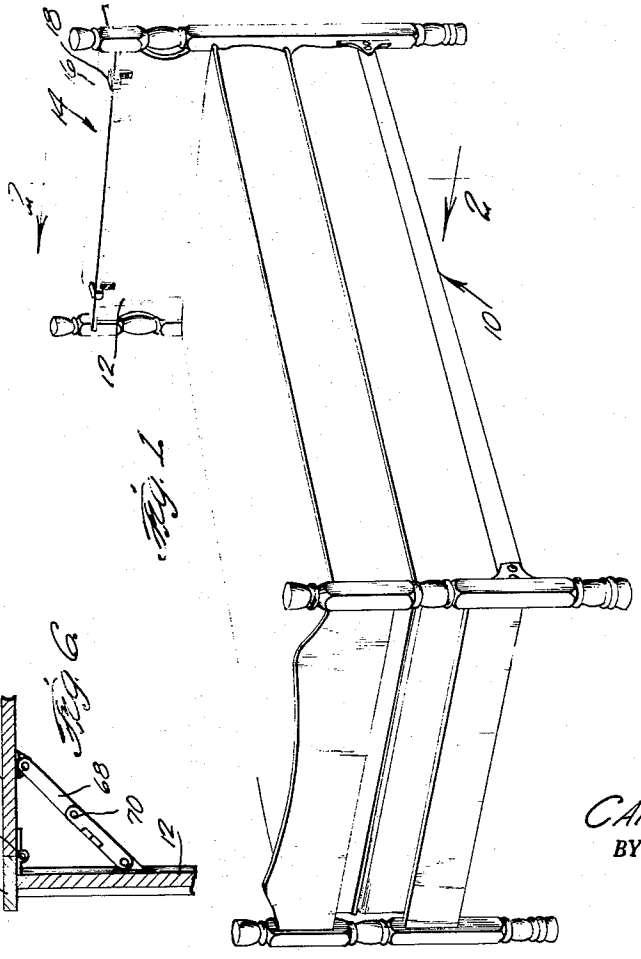


Fig. 3.

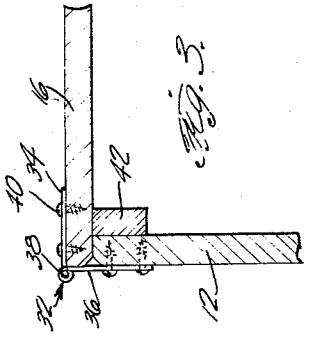


Fig. 6.

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United States Patent Office 3,259,923 Patented July 12, 1966

3,259,923

BED ATTACHED SHELF

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Filed June 19, 1964, Ser. No. 376,319
1 Claim. (Cl. 5—332)

The present invention generally relates to an attachment for a bed and particularly the headboard of the bed in order to form a storage shelf at the top end of the headboard and to form a storage area between the headboard and the wall of a room.

An object of the present invention is to provide a bed attachment in the form of a shelf hingedly attached to the top edge portion of a headboard so that the shelf may be orientated in a horizontal position for use and conveniently stored in a vertical position when the shelf is in inoperative condition.

A further object of the present invention is to provide a shelf attached to the top edge of the headboard of a bed in which the shelf projects outwardly of the headboard towards a wall surface for forming a storage area thereon for receiving card tables, folding chairs, cleaning equipment such as dust mops and the like, and otherwise any objects that are normally found in a household particularly in the bedroom in which it is desirable to store them in a concealed position.

A further important object of the present invention to provide a shelf attached hingedly or pivotably to the upper edge portion of a headboard with the edge of the shelf adjacent the mattress projecting a very slight distance inwardly in the headboard thereby eliminating any danger of engagement therewith when sleeping in the bed in a normal manner.

Still another important object of the present invention is to provide a shelf attachment for the headboard of a bed which is simple in construction, easy to attach, effective for its purposes and relatively inexpensive to manufacture.

These and other objects of the present invention will be more fully realized and understood from the following detailed description when taken in conjunction with the accompanying drawing wherein:

FIGURE 1 is a perspective view of the bed having the shelf attached thereto;

FIGURE 2 is a sectional view taken substantially upon a plane passing along section line 2—2 of FIGURE 1 illustrating the structural details of the shelf;

FIGURE 3 is an enlarged fragmental sectional view illustrating a modified type of hinge for securing the shelf to the headboard;

FIGURE 4 is a sectional view similar to FIGURE 3 but illustrating another type of hinge structure;

FIGURE 5 is a sectional view similar to FIGURES 3 and 4 but illustrating another form of hinge structure for securing the shelf to the headboard;

FIGURE 6 is a detailed sectional view similar to FIGURE 5 but illustrating a hinge structure with a folding brace for retaining the shelf in horizontal position.

Referring now specifically to the drawings, the numeral **10** generally designates a bed of conventional construction and which includes a generally vertically disclosed headboard, also of conventional construction with it being understood that the shelf may be attached to various types of beds and various types of headboards insofar as its combination with the bed is concerned.

The shelf attachment is generally designated by the numeral **14** and includes a horizontally disposed shelf or board **16** which may be in the form of a counter top number or the like having any suitable finish on the upper surface thereof and any suitable finish on the peripheral and bottom surface if desired. The board or shelf **16** lies against the top edge of the headboard **12** and is

hingedly attached thereto by a hinge structure **18** which includes a lower L-shaped hinge strap **20** and an upper L-shaped hinge strap **22** pivotably attached by a hinge barrel **24** and the lower inner corner of the shelf or board **16** as illustrated in FIGURE 2. Thus, with this construction, the board **16** may be hinged from its operative horizontal position as is illustrated in FIGURE 2 into a vertical position lying along the front surface of the headboard **12**. When the board or shelf **16** is in operative position as illustrated in FIGURE 2, the outer edge thereof is concaved as at **26** for providing a neat appearance and the area underneath the board **16** is adapted to receive and store various articles such as card tables **28** or the like which may lean against a wall surface **30**. Thus, the shelf **16** when combined with the headboard **12** and the wall surface **30** forms a storage compartment for card tables, folding chairs, mops, suitcases and the like of which will be concealed and kept out of the way in a conveniently stored position. The length of the hinge structures may vary and the spacial relationship thereof may vary depending upon the expected load to be placed on the shelf **16**. The hinge structure as well as the shelf structure may be finished in a manner compatible with the finish on the headboard or any suitable finish may be provided thereon.

FIGURE 3 illustrates another type of hinge structure generally designated by numeral **32** and including a hinge strap **34** and a hinge strap **36** which are straight and which are interconnected by a hinge barrel **38** at the upper inner edge of the shelf **16**. Suitable screw threaded fasteners **40** of the wood screw type may be employed for securing the hinge straps **34** and **36** in position and reinforcement blocks or bars **42** may be attached to the outer surface of the headboard **12** to provide a wider ledge for engaging the under surface of the shelf **16** thereby more adequately supporting the shelf **16**.

FIGURE 4 illustrates another form of hinge structure **44** for interconnecting the headboard **12** and shelf **16**. In this form of the invention, the hinge strap **46** is straight whereas the hinge strap **48** is substantially Z-shaped and extends downwardly across the edge of the board or shelf **16**, inwardly across the top edge of the headboard **12** and downwardly along side of the outer surface of the headboard **12** and screw threaded fasteners such as wood screws **50** are employed through the strap **46** and through the vertical and horizontal components of the strap **48** which lies along side of the outer surface and top surface of the headboard **12** respectively. Of course, the straps **46** and **48** are secured together by a hinge pin and barrel **52** at the upper corner of the shelf **16**.

FIGURE 5 illustrates another embodiment of hinge structure **54** which includes an upper hinge strap **56** and a lower hinge strap **58** interconnecting the shelf **16** and headboard **12** with both hinge straps being L-shaped. The hinge strap **56** extended downwardly across the inner edge of the shelf **16** and the L-shaped strap **58** extends across the top of the headboard **12** and downwardly across the outer surface thereof with the leg of the strap **58** extending across the top edge of the headboard **12** extending inwardly thereof a distance for connection with a hinge barrel **60** at the lower inner corner of shelf **16** which provides for an arrangement in which the hinge axis of the shelf **16** is spaced inwardly of the headboard **12** which is adequate when the shelf **16** is above the mattress a sufficient distance. Also, this structure provides more support for the under surface of the shelf **16** since the point of support is faced inwardly from the inner edge of the shelf **16**.

FIGURE 6 illustrates another embodiment of the invention in which the headboard **12** is provided with a stationary top member **62** which may be a part of the existing headboard or may be attached thereto. Pivot-

ably attached to the strip **62** is a shelf **64** which is connected thereto by a plurality of hinge structures **66** at the juncture therebetween. Extending between the outer edge portion of the shelf **64** and the outer surface of the headboard **12** is a folding brace structure **68** which can pivot about a central pin **70** in a conventional manner of folding braces used in table leaves, folding legs on card tables and the like thus enabling the shelf **64** to fold downwardly along side of the outer surface of the headboard **12**.

Various shapes and sizes of hinges, reinforcement blocks and shelf boards may be employed and the shelf provides the support area for various magazines and other items normally associated with a bedside table or headboard with a cabinet incorporated therein.

The principles of the invention explained in connection with the specific exemplifications thereon will suggest many other applications and modifications of the same. It is accordingly desired that, in construing the breadth of the appended claim it shall not be limited to the specific details shown and described in connection with the exemplifications thereof.

I claim:

In combination with the headboard of a bed, a horizontally disposed shelf orientated at the upper edge of

the headboard and projecting outwardly therefrom so that an intermediate portion is supported by the upper edge of the headboard, means connecting the shelf to the headboard whereby the volume under the shelf and outwardly of the headboard from the intermediate portion form the storage area, said connecting means including a hinge structure for enabling the shelf to fold to a vertically retracted position, said connecting means including a pair of hinge strips and a hinge barrel interconnecting the strips with a portion of the shelf space from the hinge barrel engaging said upper edge of the headboard for retaining the shelf in horizontal position.

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