No. 851,565. PATENTED APR. 23, 1907.

G. S. SHERMAN.

COMBINED SETTEE AND BERTH.

APPLICATION FILED JUNE 1, 1906.

2 SHEETS—SHEET 1.

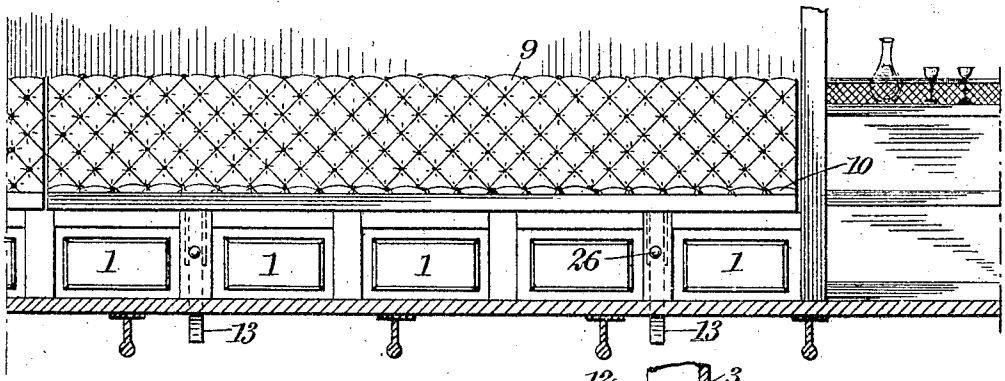


Fig. 1

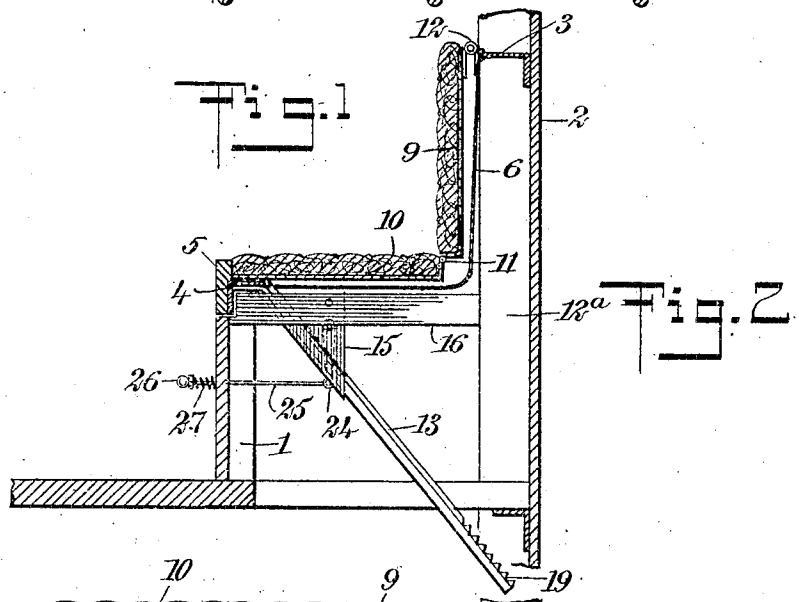


Fig. 2

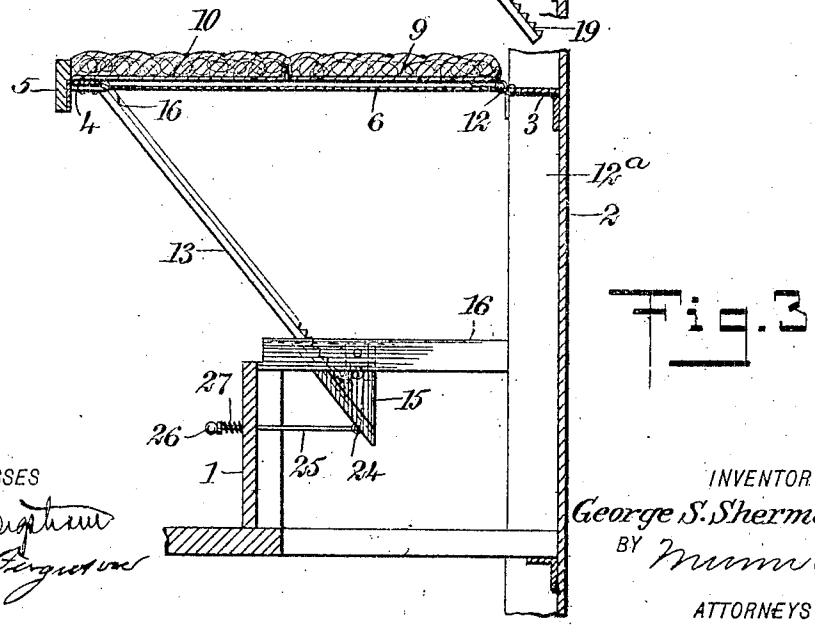


Fig. 3

WITNESSES

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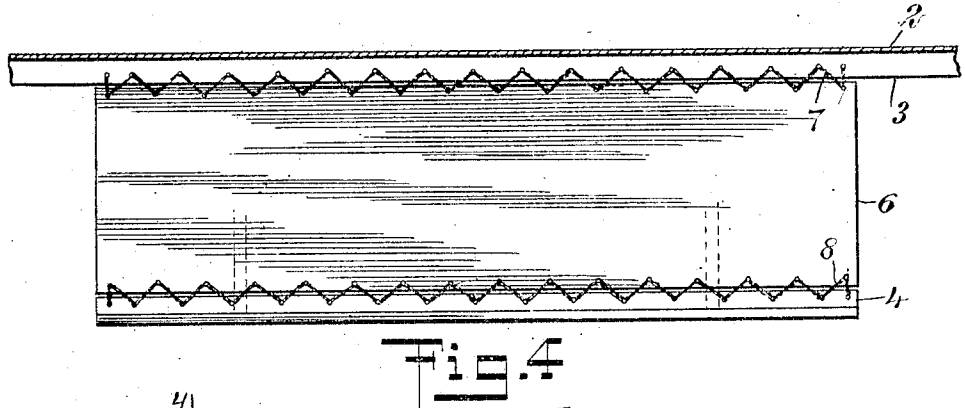


Fig. 4

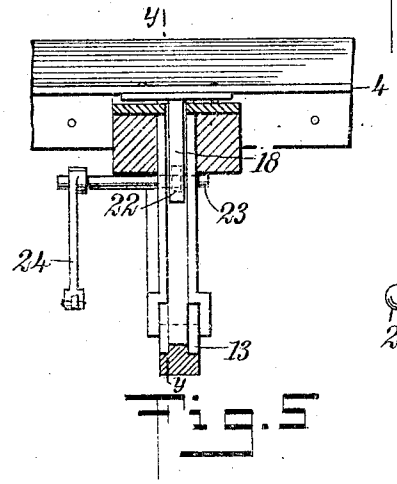


Fig. 5

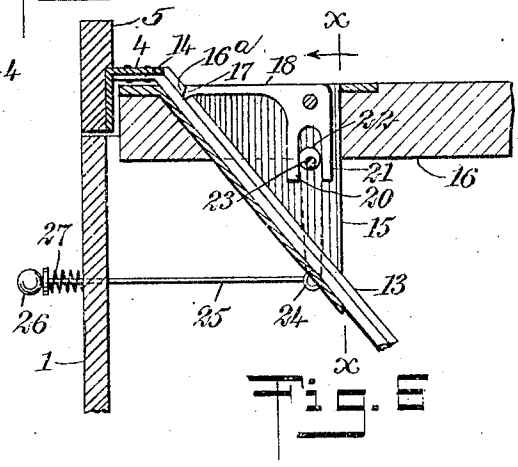


Fig. 6

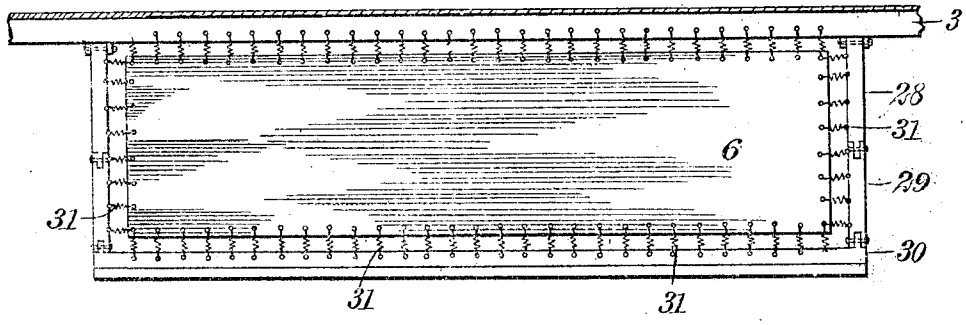


Fig. 7

WITNESSES

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COMBINED SETTEE AND BERTH.

No. 851,565. Specification of Letters Patent. Patented April 23, 1907.

Application filed June 1, 1906. Serial No. 319,735.

To all whom it may concern:

Be it known that I, GEORGE SALE SHERMAN, a citizen of the United States, and a resident of Nyack, in the county of Rockland and State of New York, have invented a new and Improved Combined Settee and Berth, of which the following is a full, clear, and exact description.

This invention relates to improvements in combination settees and berths or beds, particularly adapted for use on yachts or other water craft, or, as will appear obvious, it may be used under other conditions, the object being to provide a device of this character that will take up no more room than the usual settee or bed, the construction being such that the apparatus may be easily and quickly converted from one use to the other.

I will describe a combined settee and berth embodying my invention, and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a combined settee and berth or bed embodying my invention; Fig. 2 is a cross section thereof; Fig. 3 is a cross section showing the parts as arranged for a berth or bed; Fig. 4 is a plan with the cushions removed; Fig. 5 is a detail section on the line x—x of Fig. 6, showing a supporting means employed; Fig. 6 is a section on the line y—y of Fig. 5; and Fig. 7 is a plan showing a modification.

Referring to the drawings, 1 designates a locker which, as here shown, is connected to a cabin wall 2. Attached to the wall 2 and extended longitudinally thereof is an angle-iron 3, and an angle-iron 4 is also secured to the front rail 5 for the frame of the seat. A flexible material 6, such for instance, as canvas, is connected to the angle-iron 3, by means of a lacing 7; and the opposite front edge of the canvas is connected to the angle-iron 4 by means of a lacing 8; this canvas, when the parts are extended to form a bed or berth as will be hereinafter described, forms a support for the cushions, of which there are two, indicated at 9 and 10; the cushion 9, when the device is in the position indicated in Fig. 1 forms the back of a settee, while the cushion 10 forms the seat. The frames of the two cushions are connected together by hinges 11, and the upper portion of the frame of the cushion 9 has hinge connection 12 with a fixed part of the vessel, such for instance as to the standards 12^a. When the parts are elevated to form a bed they are thus supported or secured by means of brace rods 13, and while I have shown two brace rods it is obvious that more may be employed if required. The upper ends of the brace rods 13 have horizontally disposed head portions 14 which are bolted to the angle-iron 4. The rods 13 are of T-shape and they extend at a downward and rearward incline and are slidable through boxings 15 secured between cross strips 16 in the upper portion of the locker. The boxings of course, correspond to the shape of the bar 13 so that the bar may readily slide in the boxings but cannot become disengaged therefrom; and obviously, as clearly indicated in the drawing, the bottom wall of the boxings is inclined to correspond to that of the bar. The web portion of each bar 13, near its top is provided with a notch 16^a which receives the hook-shaped end 17 of a dog 18 mounted to swing in the boxing 15, and the lower end of the bar is provided with a series of teeth 19, with any one of which the said hook end of the dog may be engaged when the cushions are raised to form a bed. The downwardly disposed portion of the dog 18 has spaced fingers 20, 21, and arranged between these fingers is an eccentric 22 mounted on a rock shaft 23 having bearings in the side walls of the boxings 15; and extended from the rock shaft 23 is a lever 24 from which a rod 25 extends outward through an opening in the front wall of the locker; and between the head 26 on the rod and the outer surface of the said front wall is a coiled spring 27.

In the modification, Fig. 7, the frame for the back and seat consists of pivotally connected end members 28, 29, the member 28 being hinged to a fixed part, and the outer ends of the members 29 are connected to a front angle-iron 30; the canvas 6 in this construction is connected to the angle-irons and to the end members of the frame by means of coiled springs 31. The device for operating this example of my improvements is precisely the same as those described in the first example.

When the device is to be used as a settee it is obvious that the parts will be in the position indicated in Fig. 1, and the seat member will be prevented from accidental upward movement or rattling, by the ends of the dogs 18 engaging in the notches 16.

When it is desired to raise the cushions to form a bed, the rods 25 are to be pushed inward, which will rock the dog out of the notches 16, and then the seat is to be raised, and of course, during this movement the bars 13 will slide through the boxings, and when in elevated position the dogs 17 will engage with the teeth 19 at the lower ends of said bars, thus firmly holding the parts as elevated. When it is desired to return the device to its settee condition, it is only necessary to push inward the rods 25, releasing the dogs; then the elevated parts will move downward by gravity.

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

1. A combined settee and berth or bed, comprising a back frame having hinged connection at the upper portion with a fixed support, a seat frame having hinged connection with the back frame, a flexible material extending under the frames and fixed at one edge to a part adjacent to the top of the back frame, and at its front edge to a part attached to the seat frame, notched bars attached to the seat frame, and means engaging said bars for supporting the frames in an elevated position to form a bed.

2. A combined settee and bed, comprising a back frame having hinge connection with a fixed support, a settee frame hinged to the back frame, canvas secured at one edge to a fixed part adjacent to the upper edge of the back frame, an opposite edge of said canvas being secured to the front portion of the seat frame, supporting bars extended from the front portion of said seat frame at a downward and rearward angle, and having teeth, fixed boxings through which said bars are slidable, dogs mounted to swing in the boxings for engagement with teeth of said bars, and means for operating said dogs.

3. A combined settee and bed, comprising a back frame having hinge connection to a fixed support, the said frame having hinge connection with the back frame, a locker underneath the seat frame, cross pieces in the upper portion of the locker, bars connected to the front portion of said frame and extended at a downward and rearward angle, and having teeth at its lower end, boxings secured to said cross pieces and having their bottom walls inclined to correspond to the incline of the bars, dogs mounted to swing in the boxings, and having downwardly extended spaced fingers, rock shafts, and eccentrics carried by the rock shafts between the fingers, levers extended downward from the rock shafts, and spring pressed rods extended from said levers through the front wall of the locker.

4. A device for the purpose specified, comprising a back frame having hinge connection with a fixed support, a seat frame having hinge connection with a back frame, T-shaped bars secured to the front portion of the seat frame and extended at a downward and rearward angle therefrom, said bars having teeth at the lower end, fixed boxings corresponding in shape to the bars, dogs mounted to swing in said boxings, and means for swinging said dogs.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE SALE SHERMAN.

Witnesses:

JOHN A. BERGSTROM,

E. C. NIELSON.