

No. 737,561.

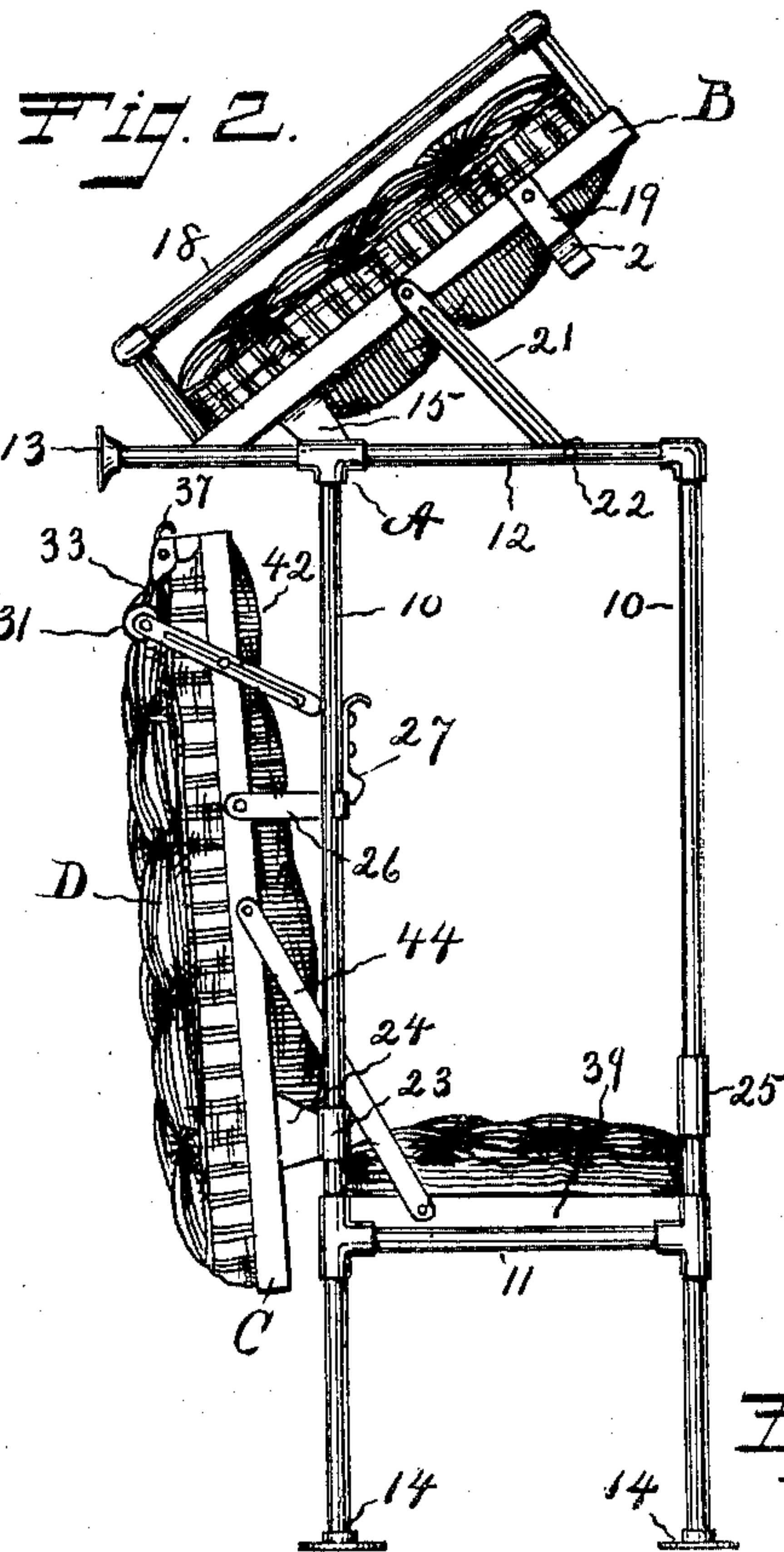
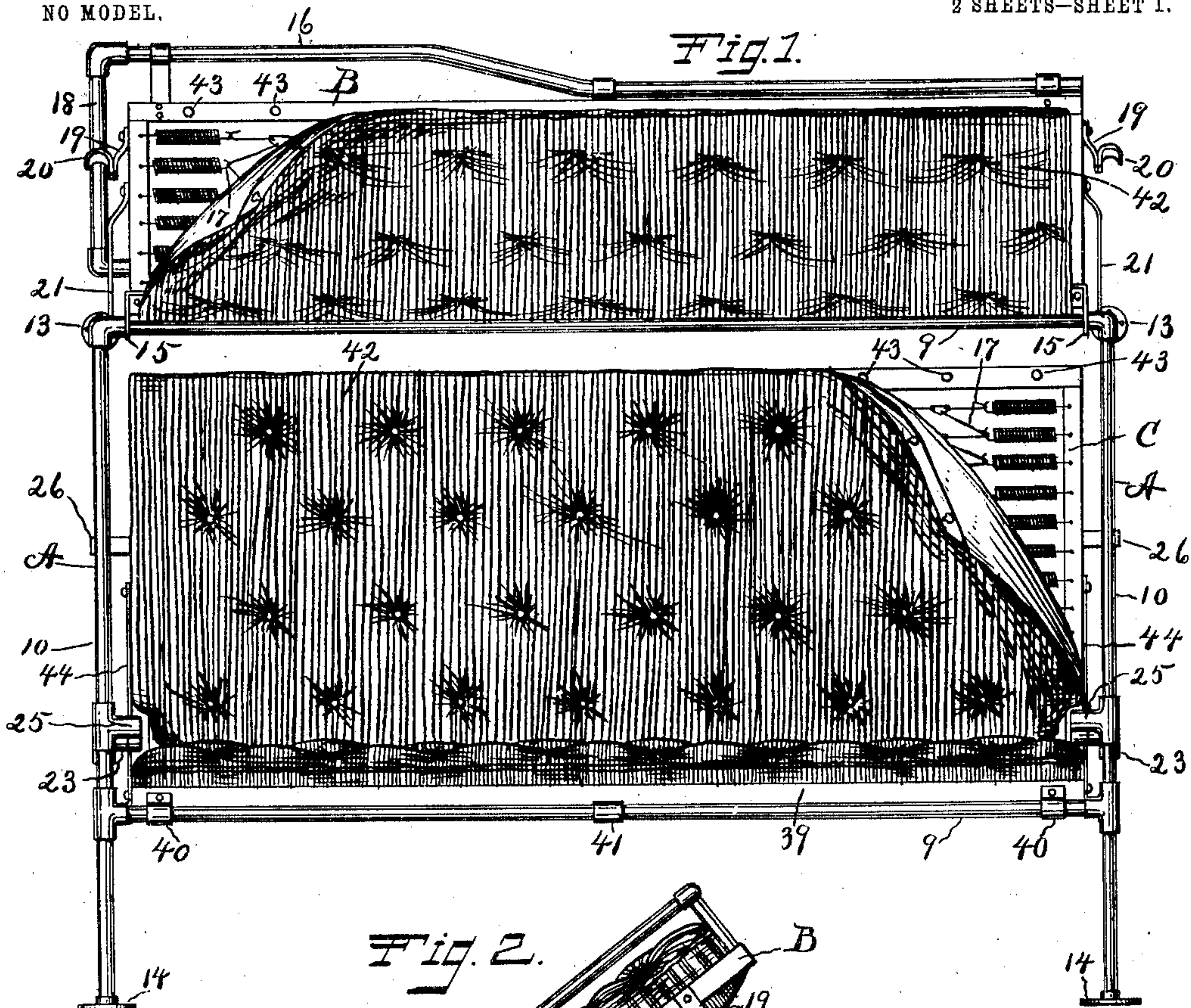
PATENTED SEPT. 1, 1903.

H. B. ARNOLD.
 CONVERTIBLE BERTH AND DIVAN.

APPLICATION FILED MAR. 14, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses.
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2 SHEETS—SHEET 2.

Fig. 3.

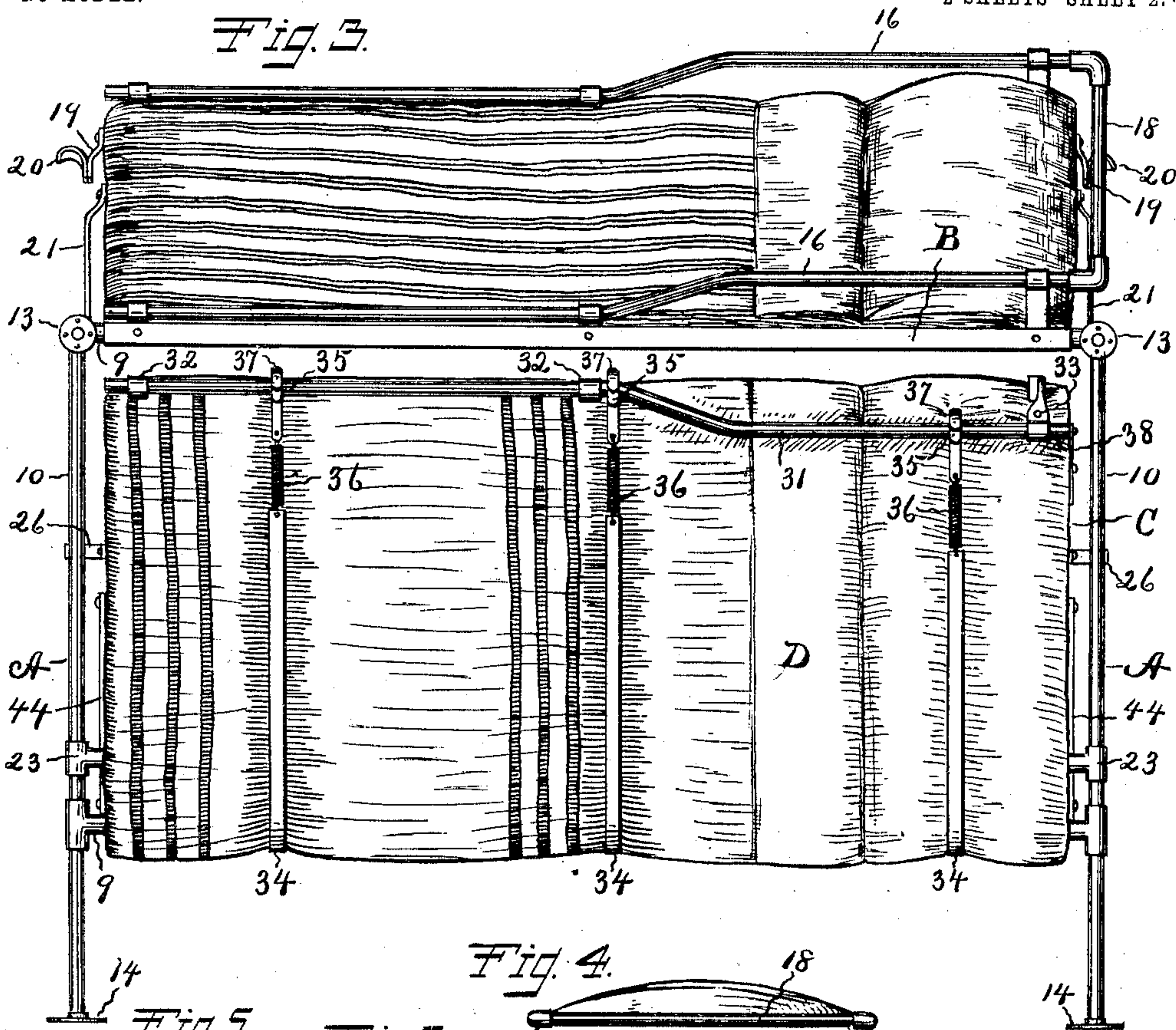


Fig. 4.

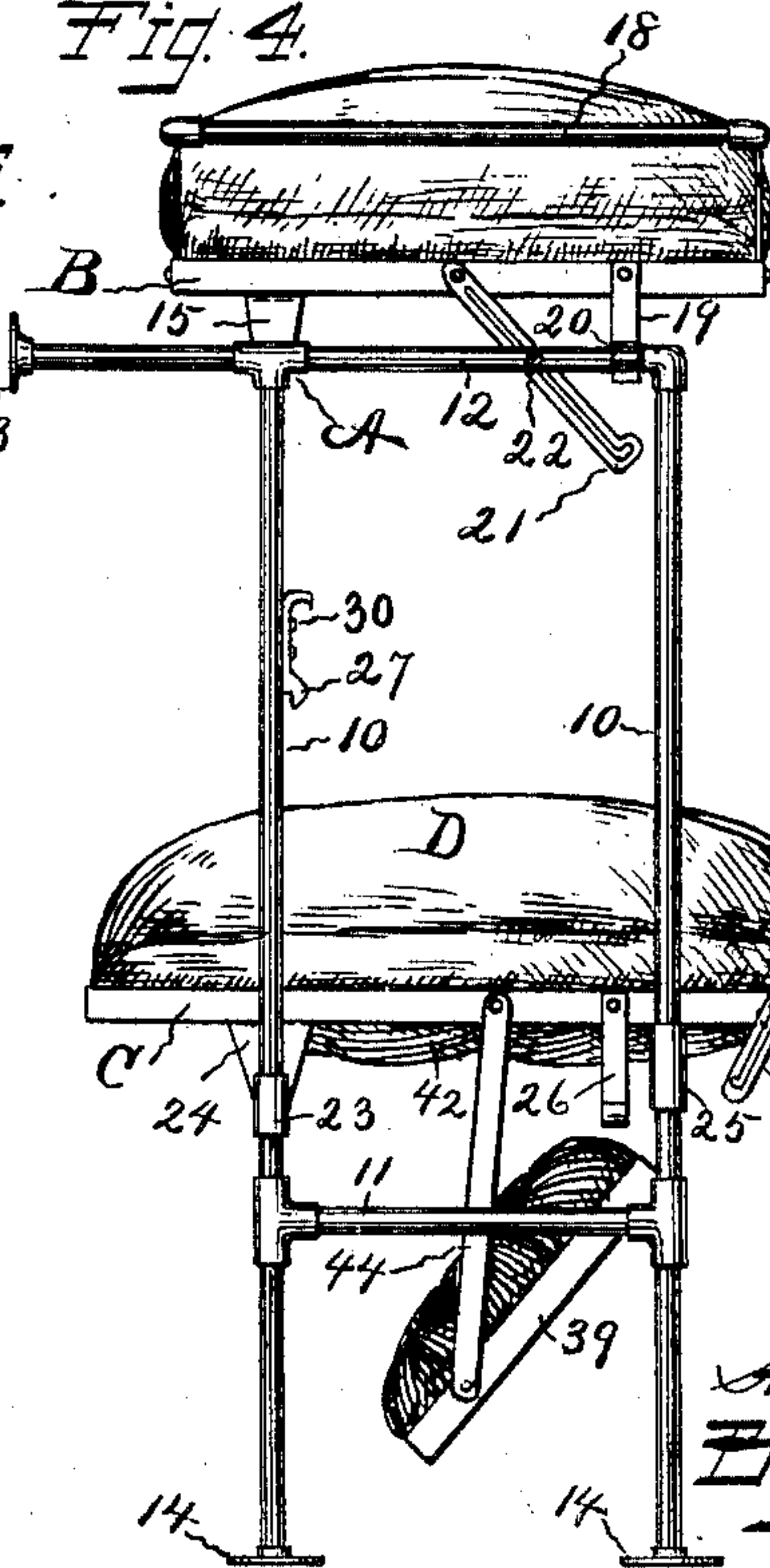


Fig. 5.

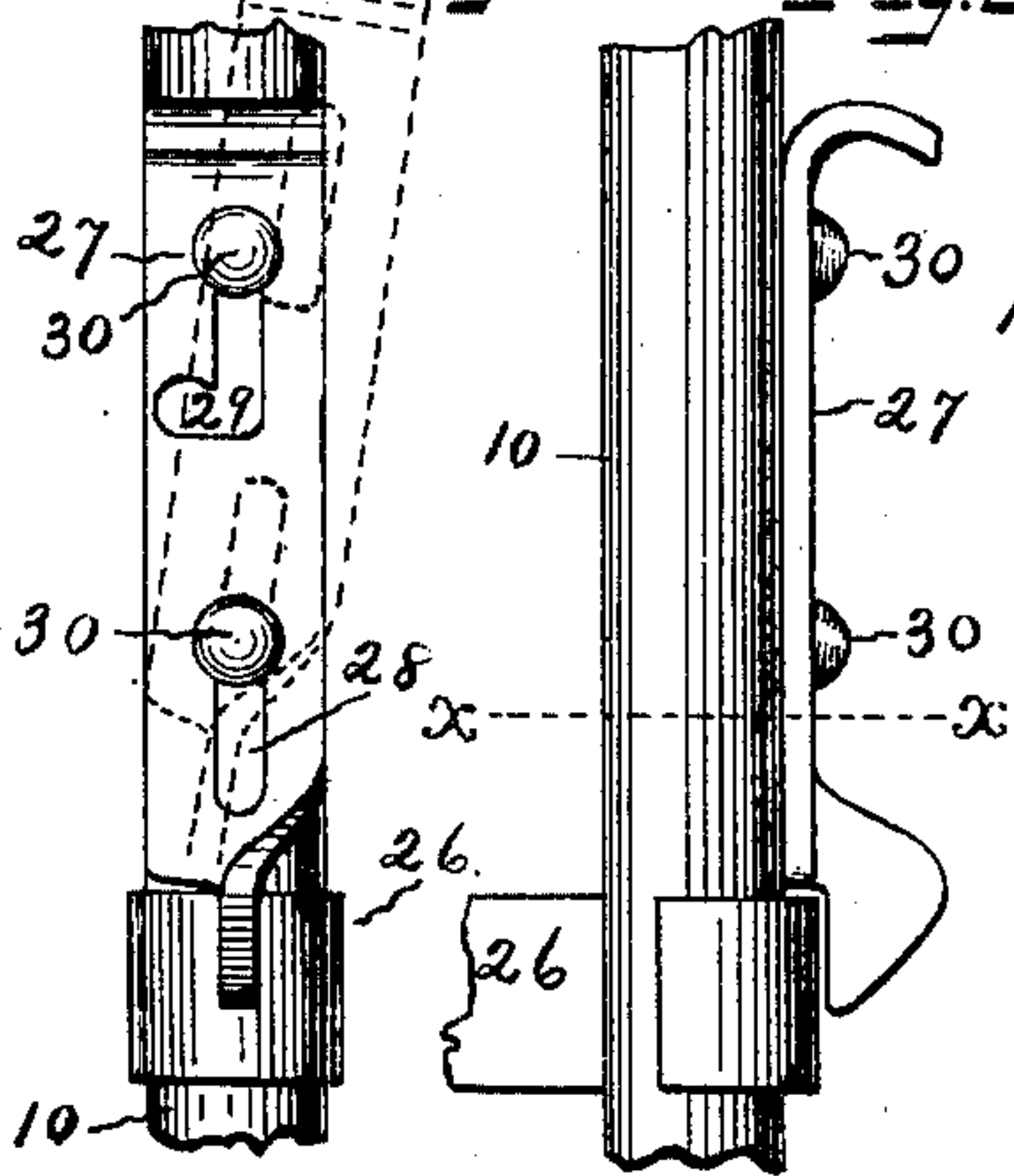


Fig. 6.

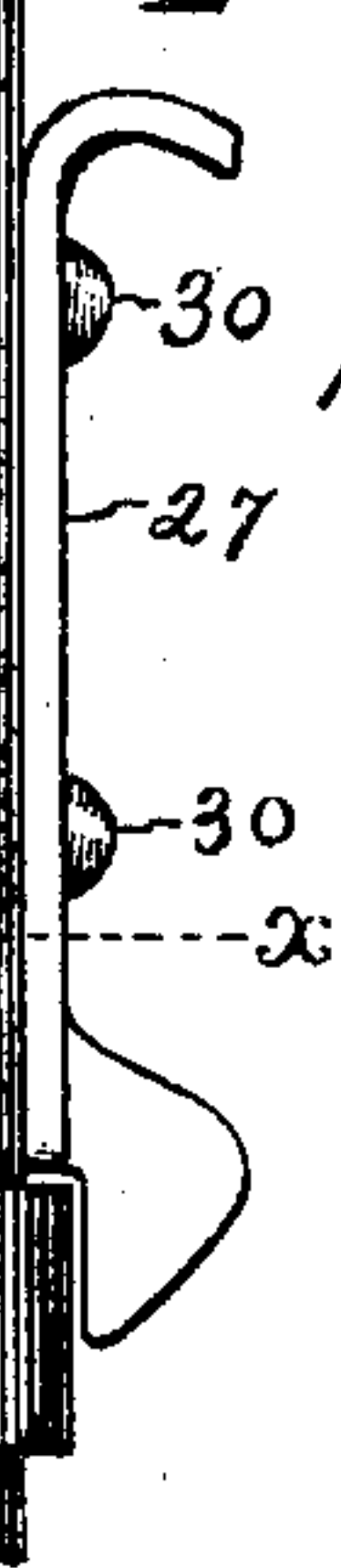


Fig. 7.

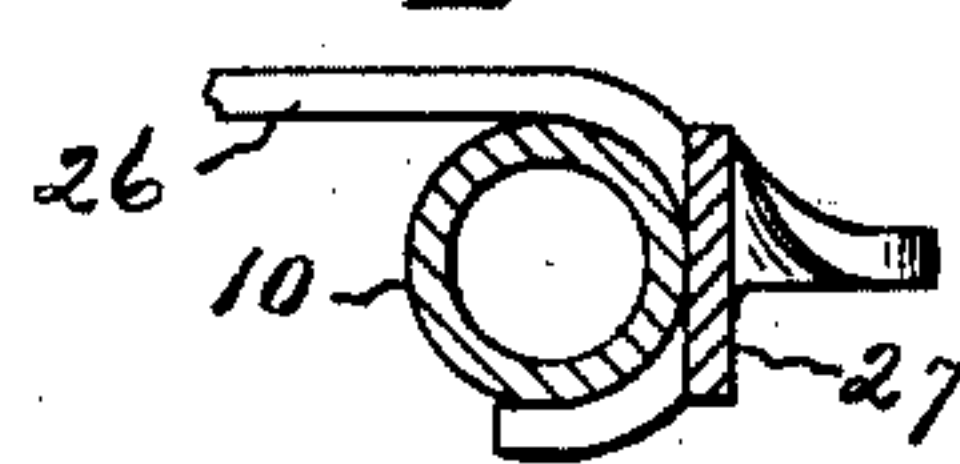
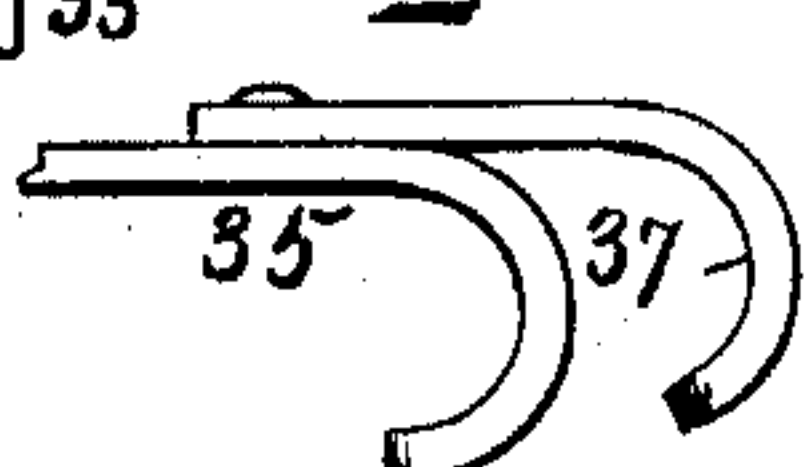


Fig. 8.



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UNITED STATES PATENT OFFICE.

HARRY B. ARNOLD, OF HARTFORD, CONNECTICUT.

CONVERTIBLE BERTH AND DIVAN.

SPECIFICATION forming part of Letters Patent No. 737,561, dated September 1, 1903.

Application filed March 14, 1903. Serial No. 147,847. (No model.)

To all whom it may concern:

Be it known that I, HARRY B. ARNOLD, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented a new and useful Convertible Berth and Divan, of which the following is a specification.

My invention relates to a convertible berth and divan; and the objects of my improvement are simplicity in construction and efficiency and convenience in use, particularly with reference to a berth that may be used as a divan when the bed is made up ready for use on lowering it into the proper position.

In the accompanying drawings, Figure 1 is a front elevation of my convertible berth and divan when arranged as a divan, a portion of the covering being turned back to show the spring-bed. Fig. 2 is a side or end view of the same, showing the right-hand end. Fig. 3 is a rear elevation of the same. Fig. 4 is a side or end elevation corresponding to Fig. 2, but with the beds turned into their horizontal position. Fig. 5 is an enlarged front elevation of a portion of one of the rear posts of the frame and the latch for holding up the lower bed, together with the stop-arm that the said latch engages. Fig. 6 is a side elevation of the same. Fig. 7 is a sectional plan view of the same on the line *xx* of Fig. 6. Fig. 8 is a detached side elevation of the hook and finger-pull for the outer end of the bedclothes-securing strap.

My berth and divan is built upon a frame consisting, substantially, of two end frames A, connected together by longitudinal rails 9. These end frames are of the ordinary iron-work construction comprising piping and unions, each frame consisting, substantially, of two posts 10, bottom cross-rod 11, and upper cross-rod 12. The upper cross-rod extends rearwardly beyond the rear post and is provided at its rear end with a screw-hole flange 13, by which to secure the frame to a wall, while the posts are provided with flanged feet 14, by which to secure them to the floor in the same way that analogous structures have been secured in place. There are two lower longitudinal bars or rails 9, connecting the frame A A in substantially the plane of the lower cross-rod 11, and two more such

bars or rails 9 substantially in the plane of the upper cross-rods 12.

B designates the bed-bottom frame of the upper bed or berth, which frame may have any desired form of wire mattress or spring bed-bottom mounted thereon—as, for example, the ordinary bottom 17. (Partly shown in Fig. 1.) The said frame may also have any suitable side and head guards 16 and 18. On the under side of the frame B near the rear side at each end is a downwardly-extending short leg 15, that is pivoted on the rear one of the upper longitudinal rails 9, and toward the front at each end there is a leg 19, having a curved foot 20 for resting on the upper side of the upper cross-rod 12 when the said frame B is turned on its hinge-leg to its horizontal position, as shown in Fig. 4. There is also pivoted to the said frame B at each end an ordinary stay-brace 21, having an elbow-shaped slot through which a pin or bolt 22 on the inner side of the upper cross-rod passes, whereby when the frame B is raised to the inclined position (illustrated in Figs. 1, 2, and 3) the lower ends of the said braces fall a little to bring the short arm of the elbow-slot over the pin or bolt 22 and lock the frame in said position, as in an ordinary trunk-stay. This upper berth or frame may be made up with the usual bedclothes and then raised to its inclined canopy-like position to get it out of the way and improve the appearance of the divan, the inclination to which it is thus tilted not being great enough to displace the bedclothes.

C designates the frame for the lower berth or bed, having any desired form of spring bed-bottom 17. (Partly shown in Fig. 1.) The rear one of the posts 10 in each of the end frames A has a hinge lug or union 23, to the inner side of which the short hinge-leg 24, similar to the leg 15, is pivoted to constitute the hinge of this frame C to swing on from the position shown in Figs. 1, 2, and 3 to that shown in Fig. 4. The front post 10 of each frame A is provided with a stop-lug 25 for the frame C to rest on when in the horizontal position. (Shown in Fig. 4.) The ends of the frame C are also provided at each end with a stop-arm 26, rigidly secured thereto and having a hook-shaped outer end for engaging

the rear post 10 of the end frame A when the frame C is turned up and back, as shown in Figs. 1, 2, and 3. The hook-shaped outer end comes against and partially encircles the post 10 on its front side. A combined sliding and swinging latch 27 is projected downwardly in front of the hook-shaped outer end, as shown in Figs. 2, 5, 6, and 7, to hold the said stop-arm and through the said arm hold the frame in its upright position for use as the back of the divan instead of a bed. This latch is provided with a straight longitudinal slot 28 and an elbow or L-shaped slot 29 and is mounted on the post 10 by two headed pins 30, upon which pins the said latch may be lifted vertically and its upper end then swung toward one side on the lower pin as an axis to engage the short arm of the slot 29 with the upper pin and hold the said latch in its elevated or disengaged position, as indicated by the broken lines in Fig. 5.

A guard 31 is hinged to the front of the bed-frame C by means of the lugs 32 and arm 33. Near the head end of the frame the guard is offset to bring it into a higher position at that end than toward the foot, the arm 33 being at the head end. This guard is turned on its hinges down upon the bedclothes D after the bed is made up and when the bed is not occupied and the bedclothes are secured in place and the guard held in its turned-down position by means of straps 34, Fig. 3, which are secured by one end to the rear part of the frame C and by means of hooks 35 at the other end to the guard 31, as best shown in Fig. 3. I prefer also to provide these straps with a spring 36 to make them yielding and to make them snugly hug the bedclothes. For convenience of unhooking these straps when they are thus tightly drawn over the bedclothes I provide their outer or free ends with a finger-piece 37, that projects beyond the hook 35, as best shown in Fig. 7. The head end of the guard 31 is connected with a slotted stay 38, acting on a pin on the frame C to hold the guard into its turned-up position when the bed is let down, as indicated by the broken lines for the elevated guard in Fig. 4.

The divan-seat 39 may be of any ordinary construction as to its general make-up and is hinged to the front one of the lower longitudinal rails 9 of the main frame by ears or lugs 40 41 and is also connected at each end with the bed-frame C by means of links 44, which are pivoted by their respective ends to the said frame and seat, whereby the seat is held in its proper horizontal position by means of the said links for use as a seat when the bed-frame C is turned up and back, as shown in Fig. 2, while the seat is automatically let down out of the way of the bed-frame when the bed-frame is let down, as shown in Fig. 4, the said seat swinging downwardly at the rear on its hinges at the front as the bed-frame is lowered.

The under side of the upper-bed frame B

and the corresponding side of the lower-bed frame C may be covered with any desired upholstery or covering 42, secured in place in any desired or ordinary manner—as, for example, by suitable knobs or buttons 43.

In my convertible berth and divan both berths or beds can be made up at any desired time and then turned into the position for use as a divan, the top of the lower berth having the bedclothes confined thereon to keep them in place when the bed-frame becomes the back of the divan. The divan-seat is automatically raised into position for use as a divan and lowered into a position out of the way of the bed by the act of changing the bed from one of its positions to the other. The latches for holding and releasing the turned-up bed-frame can be operated one at a time and then readily set in either their locking or releasing position, as may be desired.

It is apparent that some changes from the specific construction herein disclosed may be made, and therefore I do not wish to be understood as limiting myself to the precise form of construction shown and described, but desire the liberty to make such changes in working my invention as may fairly come within the spirit and scope of the same.

I claim as my invention—

1. In a convertible berth and divan, the combination of the main frame with a divan-seat at the lower part of the said main frame, the upper and lower bed frames, the lower bed being hinged to the back part of the said main frame above the said divan-seat for being turned down into a horizontal position for a berth and upwardly and backwardly below the back edge of the upper bed for use as the back of the divan, and means for securing the said lower bed in the latter position, substantially as described.

2. In a convertible berth and divan, the combination of the main frame, with a divan-seat hinged directly to a fixed part of the said main frame, a bed-frame hinged to an adjacent fixed part at the back portion of the said main frame and in a higher plane than the plane of the said divan-seat, and means for connecting the said hinged seat and bed-frame, substantially as described.

3. In a convertible berth and divan, the combination of the main frame with a divan-seat hinged by its front side edge to the said main frame, the bed-frame hinged to the rear part of the said main frame, and the links pivotally connecting the said hinged seat and bed-frame, to necessitate their simultaneous movement in changing from one position to another.

4. In a convertible berth and divan, the combination of the main frame, with the upper and lower bed frames, the lower-bed frame being hinged to the back part of the said main frame for being turned from a horizontal position upwardly and backwardly under the rear part of the upper-bed frame for use as the back of the seat, and means for

binding the bedclothes on the back of the said back for holding the made-up bed intact when the device is arranged for use as a divan.

5 In a convertible berth and divan, the combination of the main frame, with the bed-frame hinged to a fixed part at the back portion of the said main frame for being turned down into a horizontal position for use as a berth and upwardly and backwardly for use
10 as a back, means for securing the said bed-frame in its turned-back position, a divan-seat hinged to the said main frame at its front edge, a link pivoted by one end to the said
15 divan-seat and by its other end to the said bed, the said link serving as the means for holding the divan-seat in its proper position when the said bed-frame is secured in its turned-back position.

20 6. In a convertible berth and divan, the combination of the main frame with the divan-seat, the lower-bed frame mounted on the said main frame for being changed from a horizontal to an approximately vertical position, and the upper-bed frame hinged upon
25 the said main frame above the upper edge of the turned-up lower-bed frame, and means

for holding the said upper-bed frame in its elevated position.

7. In a convertible berth and divan, the combination of the main frame having posts 30 with the bed-frame hinged to the lower rear post of the said main frame, the hooked stop-arms attached to the said hinged bed-frame for engaging the front of the said posts to stop the said bed-frame in its turned-back 35 position, and a fastening device engaging the said stop-arm to lock the said bed-frame in the said turned-back position.

8. In a convertible berth and divan, the combination of the main frame with the up- 40 per-bed frame hinged to the upper rear part of the said main frame for being let down into a horizontal position and tilted for elevating its front edge to bring the said bed-frame into an inclined canopy-like position, 45 and means for holding it in the said position, substantially as described.

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Witnesses:

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