

A. O. S. JONES.

SCREEN BED.

APPLICATION FILED SEPT. 19, 1910.

Patented Dec. 27, 1910.

2 SHEETS—SHEET 1.

979,506.

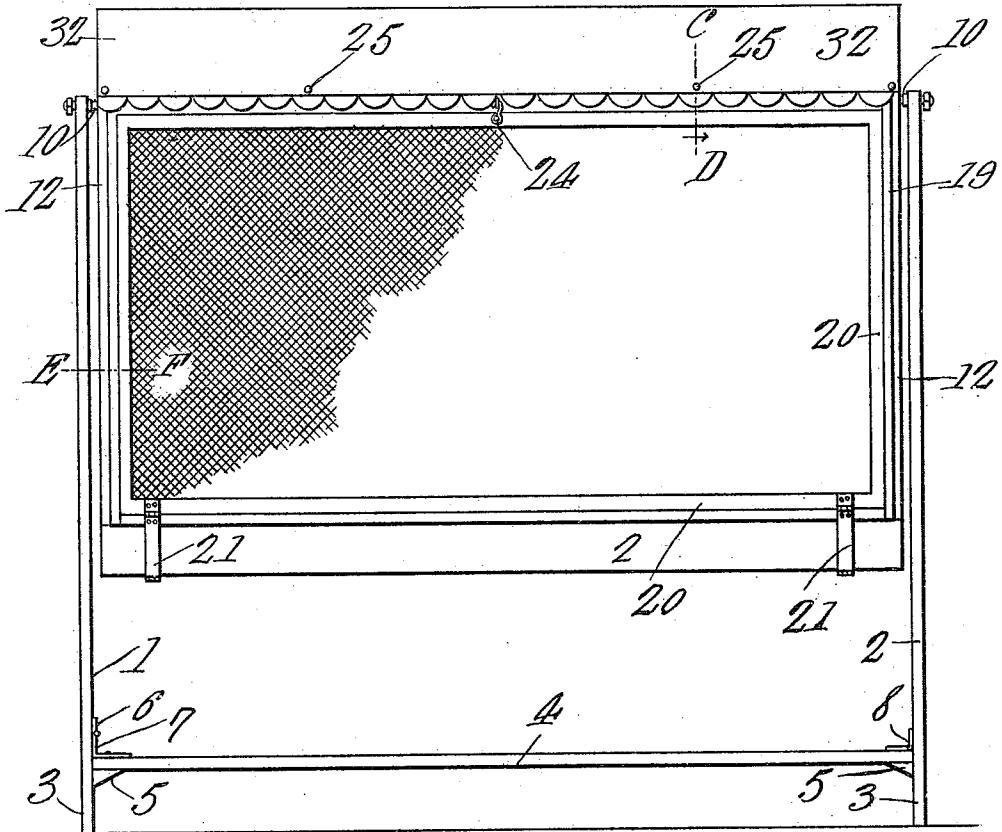


Fig. 1.

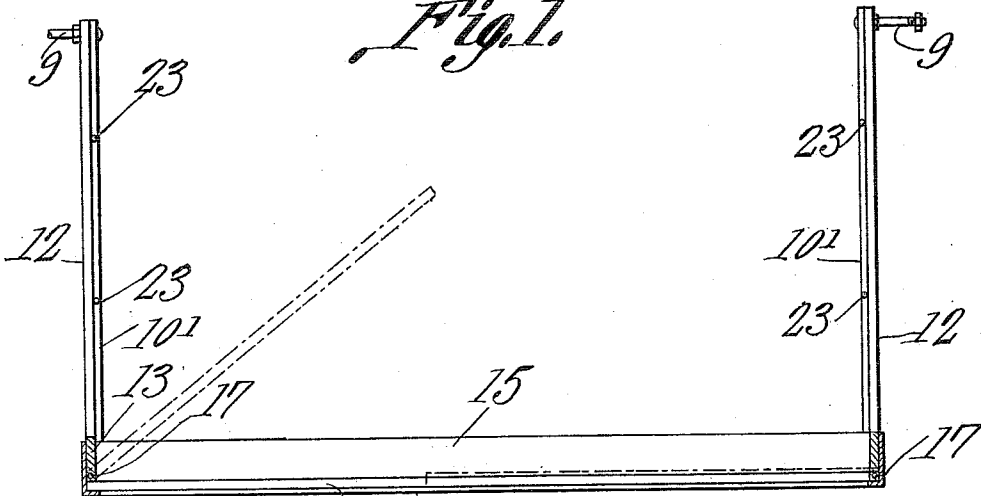


Fig. 3.

Witnesses

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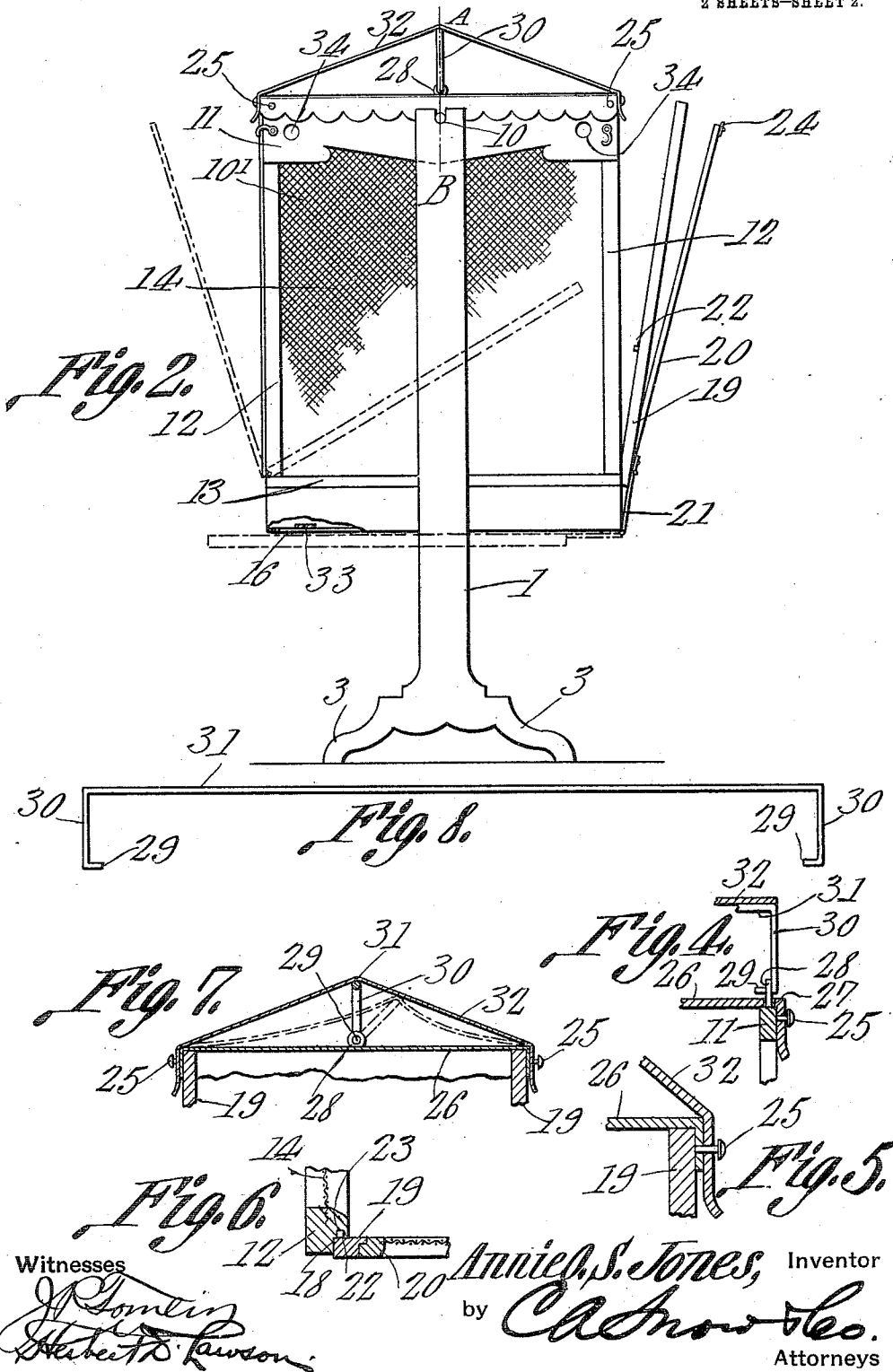
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UNITED STATES PATENT OFFICE.

ANNIE O. S. JONES, OF SHREVEPORT, LOUISIANA.

SCREEN-BED.

979,506.

Specification of Letters Patent.

Patented Dec. 27, 1910.

Application filed September 19, 1910. Serial No. 582,700.

To all whom it may concern:

Be it known that I, ANNIE O. S. JONES, a citizen of the United States, residing at Shreveport, in the parish of Caddo and State of Louisiana, have invented a new and useful Screen-Bed, of which the following is a specification.

This invention relates to screen beds for use by young children or adults and its object is to provide a compact device of this character which can be collapsed so as to be readily stored in a small space and conveniently transported.

A further object is to provide a bed of this character adapted to be mounted for swinging movement, the panels constituting the side and end walls of the bed being formed of screens which serve to prevent flies or other insects from annoying the occupant of the bed.

Another object is to provide a bed of this character having a novel form of cover which can be readily set up or removed and collapsed.

With the foregoing and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings;—Figure 1 is a side elevation of a bed constructed in accordance with the present invention. Fig. 2 is an end elevation thereof, one of the side panels and its door being swung outwardly, certain of the positions assumed by the side panels being indicated by dotted lines. Fig. 3 is a side elevation of the bed body with the lower portion thereof in section and the near side panels removed, certain of the positions assumed by the end panels, being indicated by dotted lines. Fig. 4 is a section through one end portion of the body, said section being taken on the line A—B Fig. 2. Fig. 5 is an enlarged section through a portion of one side of the body of the bed, said section being taken on the line C—D Fig. 1. Fig. 6 is a section through one corner portion of the body, said section being taken on the line E—F Fig. 1. Fig. 7 is a transverse section through the roof portion of the bed, one of the positions of the roof end and stretcher being shown in dotted lines. Fig. 8 is a detail view of the roof stretcher and support.

Referring to the figures by characters of reference 1 and 2 designate standards each of which has downwardly diverging legs 3 at its lower end and these standards are connected by a strip 4 provided, at its ends, with stop blocks 5 arranged upon the lower face of the strip and adapted to bear against the standards when they are perpendicular to the strip. Standard 1 is connected to the strip 4 by a hinge 6 having an L-shaped leaf 7 secured upon the strip 4 and upstanding therefrom so that, when the standard 1 is swung relative to the strip, it will be supported thereabove by the L-shaped leaf 7. The other standard 2, however, is connected to the strip 4 by an ordinary hinge 8 both leaves of which are straight so that, when standard 2 is swung toward the strip 4, it will rest thereon and between said strip and the other standard 1.

The two standards are provided, at their upper ends, with notches or openings 9 for the reception of trunnions 10 extending from the ends of the bed body. These trunnions are secured to and extend from the upper portions of the end panels 10' of the bed body, each of these panels consisting of a strong top strip 11 which may be formed of metal or hard wood or the like, this strip 11 being attached to the upper ends of the side pieces 12 of the frame and these side pieces being attached at their lower ends to the bottom strip 13 of the frame of the end panel. A screen 14 is secured to these strips 90 and completes the end panel.

The bottom frame of the bed body consists of side and end strips 15 preferably of metal and having inwardly directed longitudinal flanges 16 along the lower edges thereof. The two end panels 10' are hingedly connected to the end portions of this frame 15, as shown at 17, one of the end panels being connected to the bottom frame so as to lie flat upon the flanges 16 when said end panel is swung inwardly upon the frame 15 while the other end panel is adapted, when folded into the frame 15, to rest upon the other end panel 10'. This will be apparent by referring to Fig. 3 wherein one of the end panels is shown, in dotted lines, resting on the flanges 16 while the other end panel is shown, in dotted lines, partly folded down onto the first mentioned panel.

The outer side edges of the strips 12 are rabbeted, as indicated at 18 in Fig. 6 so as to receive the end strips of side panels 19,

each of the side panels being in the form of a frame having a door 20 hingedly connected to it and adapted to be seated therein when closed. Each door is in the form of a screen, as clearly indicated in Figs. 1 and 6. Double hinges 21 are arranged at one side of the frame 15 and are secured to the bottom of said frame and to the panel frame 19 and the door 20. It will thus be seen that the door is capable of swinging relative to the panel frame 19 and the said panel frame can be swung into position at the side of the bed body or can be lowered as shown by dotted lines in Fig. 2. The other side panel is connected to the frame 15 by an ordinary hinge and is adapted to swing onto the said frame 15. Dowel pins 22 are preferably extended from the end portions of the panel frame 19, these pins being adapted to project into recesses 23 formed in the side strips 12.

The doors 20 are provided with any suitable fasteners 24 for securing them in closed positions within the panel frames 19 and hooks and eyes or other suitable fastening devices may be employed for fastening the ends of the side panels within the rabbets 18 in the end panels.

Buttons 25 are arranged along the upper edge portions of the side and end panels and are adapted to be engaged by the edge portions of a fabric cover 26 which is stretched over the bed body. This cover has slots 27 in the end portions thereof and which are adapted to receive eyes 28 extending upwardly from the end panels 10'. These eyes are engaged by inwardly directed trunnions 29 formed at the ends of arms 30 extending from the end portions of a rod 31, this rod and the arms constituting a stretcher for a supplemental cover or shield 32. This shield consists of a single piece of fabric the side portions of which are adapted to engage the buttons along the side panels 19. By swinging the arm 30 upwardly the rod 31 will stretch the shield 32 and hold it taut and spaced from the cover 26. An air space will thus be formed between the cover 26 and the upper cover or sun shield 32 and the occupant of the bed will therefore be better protected from the heat of the sun when the bed is located out of doors.

The bed can be readily collapsed by swinging the stretcher rod 31 onto the cover 26 and then unbuttoning the supplemental cover or sun shield 32. The arms 30 can then be spread apart so as to disengage their trunnions 29 from the eyes 28, thus detaching the stretcher. The cover 26 can be unbuttoned and pulled off of the eyes 28 after which the bed body may be removed from its supporting standards and the end panel 10' folded onto the frame 15 while one of the side panels is also folded onto said frame

and the other side panel folded under the said frame. Standards 1 and 2 can then be swung onto the strip 4 and the entire device can thus be stored within a small space. It is only necessary to reverse the foregoing operation in order to set up the device and make it ready for use. The flanges 16 formed on the bottom frame 15 are adapted to support slats 33 or the like on which the mattress is placed.

Instead of hanging the bed body from the standards 1, the same may be supported by chains or the like from the ceiling or other structure and openings 34 can therefore be formed within the strips 11 so as to receive the supporting chains if used.

While the device which has been described is particularly designed for use by children, it is to be understood of course that they can be made on a large scale for use by adults. Moreover in lieu of the supports shown and described, it will be apparent that other forms of support may be employed whereby the bed may be held in any position desired.

What is claimed is:—

1. The combination with a bed body, of a flexible cover stretched thereover and detachably secured thereto, a supplemental cover detachably secured to opposite portions of the bed and extending over the first mentioned cover, and means movably mounted upon the bed body for stretching and supporting the middle portion of the supplemental cover.

2. A bed body including a bottom frame, end screens hingedly connected thereto and foldable thereon, said screens constituting end walls, side frames hingedly connected to the bottom frame, means for securing the side frames to the end panels, and screen doors hingedly connected to the side frames.

3. A bed body including a bottom frame, screens hingedly connected to and foldable on the bottom frame, said screens constituting end panels, means for supporting said end panels, side frames hingedly connected to the bottom frame and foldable thereon, means for detachably securing the frames and end panels together, and a screen door movably connected to each side frame.

4. A bed body including a bottom frame having inwardly directed supporting flanges, end screens hingedly connected to the frame and constituting end panels, means for supporting said end panels, side frames hingedly connected to the bottom frame, screen doors mounted within the side frames, and a flexible cover detachably engaging the end panels and side frames, said cover including spaced upper and lower flexible portions.

5. The combination with a foldable support including standards, of a collapsible bed body including a bottom frame, end

5 screens hingedly connected thereto and constituting end panels, means upon said screens for engaging the standards, side panels hingedly connected to the bottom frame, means for detachably securing the side and end panels together, and a cover detachably mounted upon the panels.

10 6. The combination with a foldable support including spaced standards, of a bed body including a bottom frame, screens hingedly connected to the ends thereof and foldable into the frame, said screens constituting end panels, trunnions upon the screens for engaging the standards, side panels hingedly connected to the bottom frame and foldable thereagainst, means for

detachably securing the panels together, a flexible cover detachably engaging the panels and stretched therebetween, a stretching device detachably engaging the end panels and disposed above said cover, and a supplemental cover detachably engaging opposed panels and contacting with the stretching device. 20

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses. 25

ANNIE O. S. JONES.

Witnesses:

W. P. HALL,

W. T. ATKINS.