H. D. WIARD.

COLLAPSIBLE ROOM.

APPLICATION FILED OCT. 4, 1913.

1,100,273. Patented June 16, 1914.

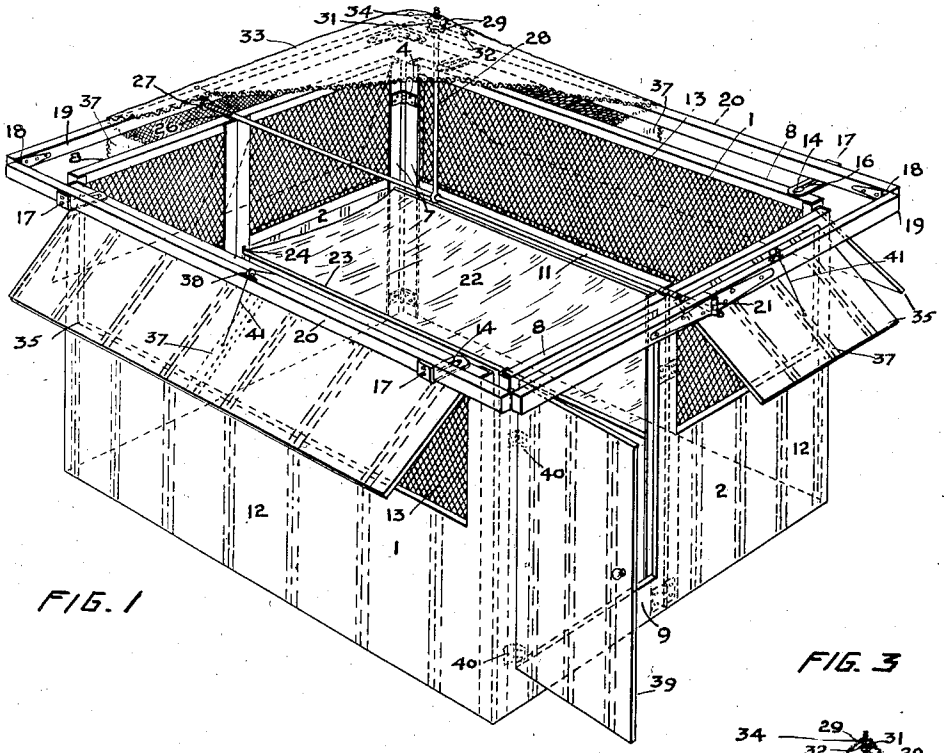


FIG. 1

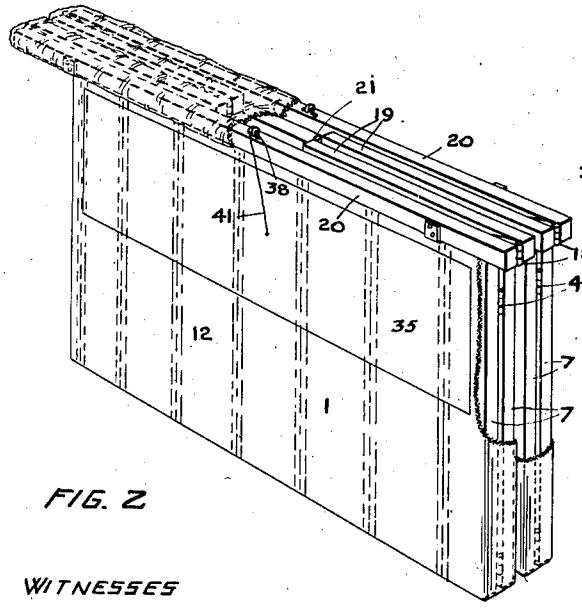


FIG. 2

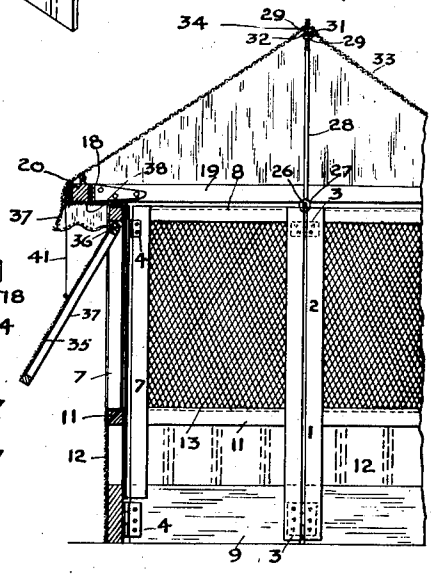


FIG. 3

WITNESSES

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COLLAPSIBLE ROOM.

1,100,273. Specification of Letters Patent. Patented June 16, 1914.

Application filed October 4, 1913. Serial No. 793,401.

To all whom it may concern:

Be it known that I, HENRY D. WIARD, a citizen of the United States, residing at Santa Cruz, in the county of Santa Cruz and State of California, have invented new and useful Improvements in Collapsible Rooms, of which the following is a specification.

The object of the present invention is to provide a collapsible and portable out-of-door room or sleeping chamber which can be easily and rapidly extended and set up in position, and again collapsed and taken down, which will be provided with means for excluding insects, while freely admitting fresh air, and which is also provided with means for shading any one or more of the upper portions of the chamber from the sun. and for protecting the interior of the chamber from wind or rain.

In the accompanying drawing, Figure 1 is a perspective view of the chamber extended, the roof or cover being broken away; Fig. 2 is a similar view of the chamber collapsed; Fig. 3 is a broken vertical section thereof extended.

Referring to the drawing, 1 indicates side walls, and 2 end walls, of my improved sleeping chamber. Each end wall is made of two members hinged to one another by hinges 3, permitting them to fold inwardly upon one another, the end members being hinged at their outer edges to the side walls 1 by hinges 4 which permit them to fold outwardly. Said side walls and three of said end members comprise each uprights 7, which are preferably made partly of wood and partly of angle irons, top bars 8, sills 9 and side bars 11 secured to said uprights, canvas 12 below said side bars and secured thereto and to said uprights and sills, and wire netting 13 above said side bars secured thereto and to said uprights and top bars. In the upper sides of the top bars of the side are secured headed studs 14, which pass through slots 16 in slide pieces 17 secured to the under sides of the longitudinal members 20 of a cover frame, said longitudinal members being hinged, as shown at 18, to end members 19 of said frame, said end members being hinged to one another, as shown at 21, so that they can fold inwardly, in like manner as the end members of the main structure.

When the walls of the chamber have been extended, it is securely maintained in the extended position by means of a cot or bed 22, of which one side is secured to a side wall 1 and the ends of a bar 23 on the other side enter suitable slots 24 formed in uprights of end members. In order to maintain said cover frame extended there is provided a round bar 26 having threaded ends upon which are screwed nuts 27. This bar is placed on the tops of the end members of the end walls adjacent to their meeting edges, and its ends extend below the lower edges of the end members 19 of the cover frame adjacent to their meeting ends, and the nuts are screwed upon said bar so that their outer sides abut against the inner surfaces of the end members 19 of the cover frame, thus preventing said end members collapsing inwardly. To said bar is secured at its center a post 28, the upper end of which is threaded and carries nuts 29, and said upper threaded end between said nuts passes through a hole 31 in a short cross bar 32 which cross bar supports a cover 33, the upper end of the post passing through an eyelet 34 secured to said cover to maintain it in position.

A very important feature of my invention resides in the fact that the cover frame overhangs the chamber on all sides, so that fresh air can enter within, and escape from below, the cover. The cover hangs down over the cover frame as shown at 37, and in order to prevent the ingress of insects through the sides, while affording ventilation, there is provided a narrow strip 38 of flexible netting, such as mosquito netting, the outer edge of which is secured to the cover and the inner edge of which is fastened to the tops of the side and end walls of the chamber. To extend or set up the chamber, first, the end members are folded outward, so that each pair are brought into alinement, also at the same time moving the side walls from each other and forming a rectangular frame. The loose side of the cot or bed is then placed in position, so that its ends engage the slots provided therefor in the uprights of the end members and thereby the frame of the chamber is secured in its extended position. The side bars of the cover frame are now moved still farther outwardly, the slide pieces sliding past the studs, and the end members of the cover frame also swing outwardly, so that the members of each pair

are brought into alinement. The bar 26 is now placed in position, so that the nuts 27 abut against the inner faces of the end members of the cover frame. The post 28 is now moved into its upper position, the cross bar 32 is raised, and the upper end of the post is inserted through the eyelet in the cover. This completes the setting up of the chamber, except the adjustment which may be desired of shades. Over each of the said spaces inclosed by the wire netting is a shade 35, having a frame, the two end members of which are pivoted, as shown at 36, to uprights 7, and to said frame is secured canvas, forming a shade and also a protection against the elements. Each shade can be raised to the desired height by a cord 41 attached to a center piece 37 of its frame and passing over the pulley 38 on the cover frame and then down into the chamber, and secured in the well known manner. By pulling, or letting go of, this cord the angle at which the shade is supported can be varied as desired. The whole of the space between the sill and top of the fourth end member of the chamber is used as the opening for the door, shown at 39, which is hinged to the adjacent upright, as shown at 40.

I claim:—

1. A collapsible room comprising side and end walls, the end walls being composed each of two end members hinged to fold inwardly upon each other, and also hinged to the side walls, and an overhanging roof frame having side pieces and pairs of end members hinged to fold inwardly upon each other and hinged to the side pieces, and removable means for supporting said roof frame upon said walls.

2. A collapsible room comprising side and end walls, the end walls being composed each of two end members hinged to fold inwardly upon each other, and also hinged to the side walls, and an overhanging roof frame having side pieces and pairs of end members hinged to fold inwardly upon each other and hinged to the side pieces, a cover over said roof frame and flexible screen fabric secured to said cover and to the tops of said walls.

3. A collapsible room comprising side and end walls, the end walls being composed each of two end members hinged to fold inwardly upon each other, and also hinged to the side walls, and an overhanging roof frame having side pieces and pairs of end members hinged to fold inwardly upon each other and hinged to the side pieces, removable means for supporting said roof frame upon said walls, and a post secured to said removable means for supporting the cover of the roof frame.

4. A collapsible room comprising side and end walls, the end walls being composed each of two end members hinged to fold inwardly upon each other, and also hinged to the side walls, and a roof frame having side pieces and pairs of end members hinged to fold inwardly upon each other and hinged to the side pieces, and slide pieces secured to the under sides of the side members of the roof frame and means on the tops of the side walls for guiding said slide pieces.

5. A collapsible room comprising side and end walls, the end walls being composed each of two end members hinged to fold inwardly upon each other, and also hinged to the side walls, and an overhanging roof frame having side pieces and pairs of end members hinged to fold inwardly upon each other and hinged to the side pieces, a cover over said roof frame and flexible screen fabric secured to said cover and to the tops of said walls, and means for maintaining said cover frame extended comprising a bar having threaded ends, and nuts screwed thereon, said bar resting on the tops of the end members of the end walls and extending below the end members of the cover frame.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY D. WIARD.

Witnesses:

FRANCIS M. WRIGHT,

D. B. RICHARDS.