Aug. 19, 1952 F. E. POSEY 2,607,047

COMBINATION BED AND SHELTER

Filed Oct. 6, 1950 3 Sheets-Sheet 1

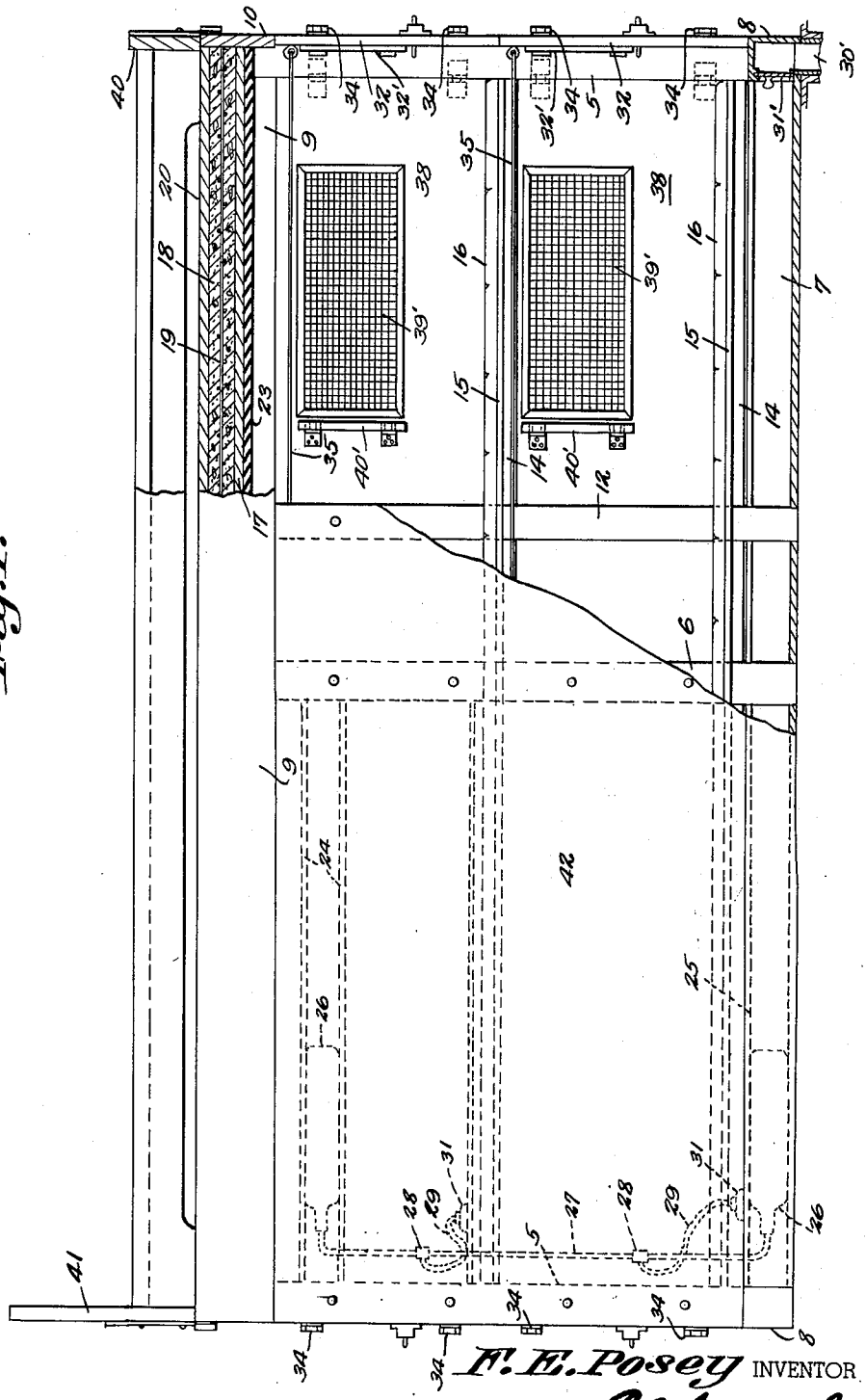


Fig. 1.

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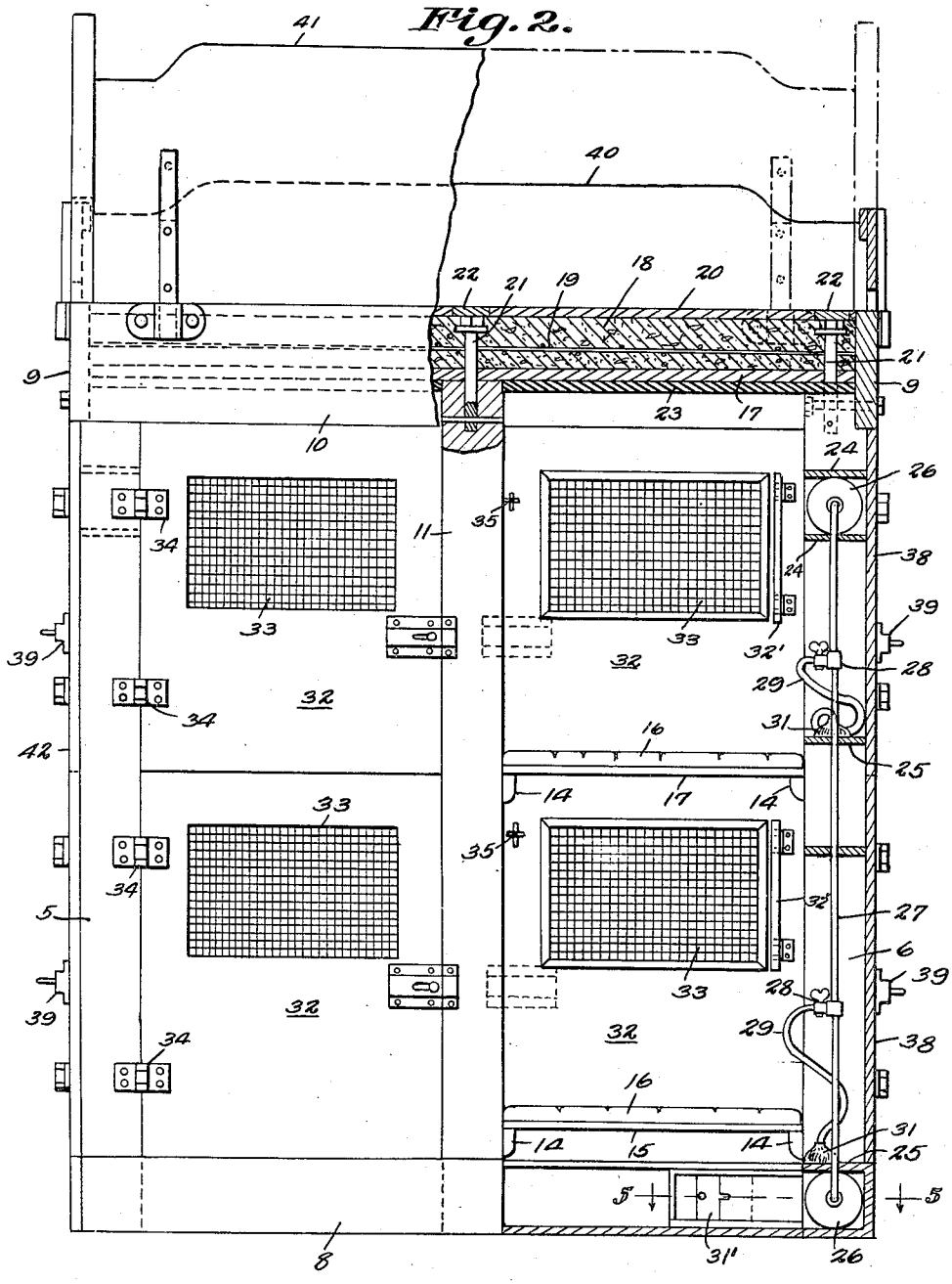
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Fig. 2.



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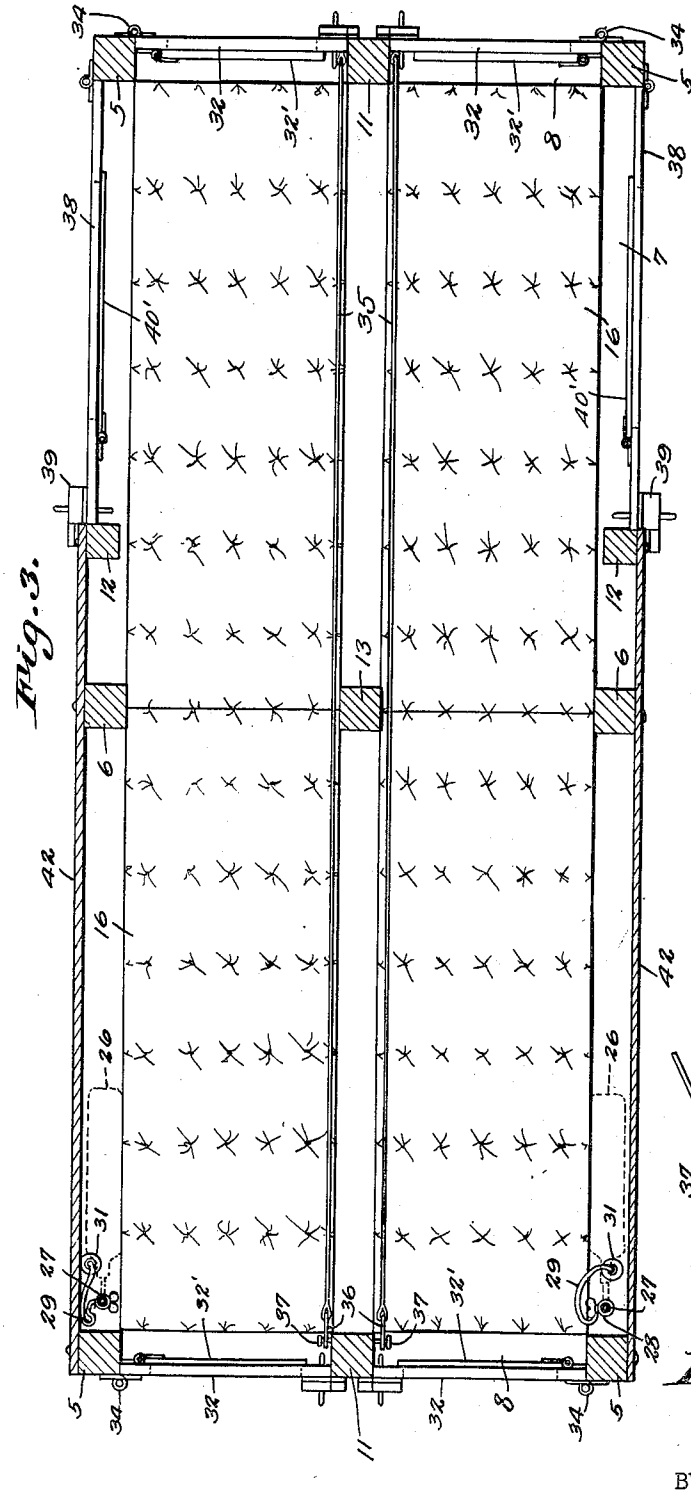


Fig. 3.

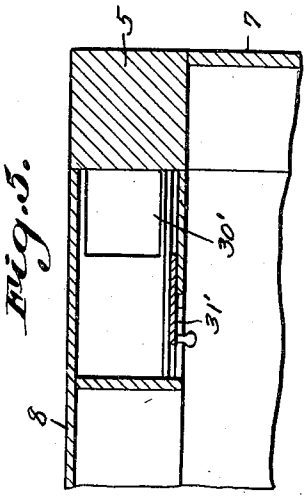


Fig. 5.

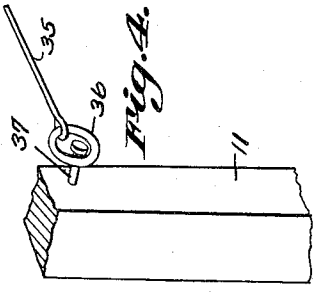


Fig. 4.

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UNITED STATES PATENT OFFICE

2,607,047

COMBINATION BED AND SHELTER

Frank E. Posey, Lancaster, Calif.

Application October 6, 1950, Serial No. 188,838

2 Claims. (Cl. 5—2)

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This invention relates to bed construction which is so designed that a protecting shelter is provided for human occupancy and sleeping purposes during periods of emergency, such as air raids, earthquakes or the like.

An important object of the invention is to provide a structure of this character which will be exceptionally strong and durable as a protective shield into which the occupants of the bed may retreat, with safety against results incident to the bombing or earthquake, the device providing refuge and sleeping quarters.

Still another object of the invention is to provide a combined bed and protective shield which may be readily dismantled and stored when not in use, but one which may be readily assembled, as desired.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawings

Figure 1 is a side elevational view of a combined bed and shelter, constructed in accordance with the invention, a portion of the side of the device having been broken away to illustrate a portion of the interior of the device.

Fig. 2 is an end elevational view thereof, with a portion of the end broken away illustrating the interior of the structure.

Fig. 3 is a horizontal sectional view through the device at a point substantially centrally of the structure.

Fig. 4 is a fragmental detail view of the cable or flexible device used in closing the end doors.

Fig. 5 is a sectional view taken on line 5—5 of Fig. 2.

Referring to the drawings in detail, the reference character 5 indicates the corner posts of the bed, which are four in number, while the reference character 6 indicates central supporting posts, the posts being connected at points adjacent to the lower ends thereof, by means of the side bars 7 and end bars 8, while the upper ends of the posts are connected by the side bars 9 and end bars 10.

At each end of the frame of the device, and disposed at points intermediate the space between the corner posts 5, are door posts 11 while at the sides of the frame, are door posts 12, the

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door posts 11 and 12 being disposed vertically so that the doors, to be hereinafter more fully described, may abut thereagainst.

A central post 13 forms a part of the frame, and provides a support for the shelves or mattress supporting members, to be hereinafter more fully described.

Extending inwardly from the corner posts and the door posts 11, are brackets 14 the brackets being spaced apart vertically, providing supports for the horizontal panels 15 which provide supports for the mattresses 16.

It might be stated that these horizontal panels are arranged at opposite sides of the door posts 11 and 13, and are designed to provide four compartments to be occupied by four people.

The uppermost panel or roof of the device comprises the panel member 17 which stretches across the upper ends of the posts 5 and 6, providing a support for the layer of concrete 18 which is reinforced in the usual manner, by means of rods indicated at 19.

The reference character 20 indicates a horizontal panel which provides a protecting surface for the layer of concrete 18, the panel 20 and layer of concrete having openings through which the bolts 21 extend, the bolts having their heads recessed below the surface of the panel 20, the openings in the panel 20 through which the bolts extend, being closed by the plugs 22. These bolts 21 are connected with the corner posts or central supporting posts associated therewith, thereby to hold the upper panels or roof section of the device in position on the corner and central supporting posts of the frame.

Disposed against the panels 17, are panels 23 constructed of rubber, the rubber panels 23 being designed to absorb shock and vibrations incident to exploding bombs or earthquakes.

Extending longitudinally of the frame of the device and disposed in spaced relation with respect to each other, are the strips 24 and 25, the strips 24 providing a compartment, between which the oxygen tanks 26 are held, the tanks 26 being connected by means of the pipe 27, which pipe is provided with outlets 28 to which the hoses 29 are connected, the hoses 29 being provided with masks 31 at their free ends to be used by the occupants of the compartments.

The end and bottom bars of the frame, are constructed to provide ducts 30' which are in communication with the conventional air conditioning hook-up of a house or building not shown, the air supply being controlled by the sliding closure 31'.

The ends of the various compartments are closed by means of the hinged closures **32**, the closures having openings covered with the wire mesh material **33**. Solid doors or closures **32'** are so constructed that they will swing over the wire mesh material **33** closing the openings over which the wire mesh material is positioned.

The hinges **34** on which the closures **32** are mounted, are secured to the vertical end corner posts of the frame and swing inwardly to contact the door posts **11**, at the ends of the frame.

The hinged closures **32** at the foot end of the compartments, are provided with ropes or flexible cables **35** that are of lengths to extend to the post **11** at the head end of the compartments, the ropes or flexible cables being supplied with rings **36** at their free ends which rings hook over the pins **37** so that the occupants of the compartments may by pulling the ropes or flexible cables **35**, cause the hinged closures **32** at the foot end of the structure, to close. When the rings **36** are hooked over the pins **37**, the hinged closures will be firmly secured in their closed positions.

The hinged closures **32** at the head end of the structure may of course be closed by the hand of the person occupying the compartment.

At the sides of the frame are hinged closures **38** which are substantially large as compared with the end closures, and these closures **38** afford access to the compartments, through the sides of the frame structure of the device. Securing members **39** are provided on the closures **38**, whereby the closures **38** may be securely held in their closed positions. The closures **38** are provided with openings covered with wire mesh material **39'** over which the solid closures **40'** are moved closing the openings of the closures **38**.

The reference character **40** indicates the foot board of the bed, while the reference character **41** indicates the head board, the panel **20** which is disposed between the head and foot boards of the bed, constituting a support for a mattress not shown, when it is desired to use the device as a bed.

From the foregoing it will be seen that due to the construction shown and described, I have provided a bed which embodies a plurality of protected compartments.

The sides of the compartments are closed by the wall panels **42** which may be constructed of any suitable material such as heavy plywood, or metal if so desired to lend added protecting qualities.

While I have shown and described my invention as of the larger size for use by four persons, it is of course within the scope of the invention to carry

out the principles of my invention in any desired size or design to meet the requirements of use.

Having thus described the invention, what is claimed is:

1. In a shelter bed, a bed frame including corner posts and intermediate posts, brackets mounted on the posts, vertically spaced horizontal panel members secured to the brackets dividing the bed frame into a plurality of compartments, said panel members comprising mattress supports, hinged closures closing the ends of the compartments, vertical wall panels closing the sides of the frame, an upper panel comprising a horizontal panel section, a layer of concrete material covering said upper panel member, means for securing the upper panel member to the upper ends of the posts forming the frame, rubber panel sections secured to the under surfaces of the horizontal panel section of the upper panel, and superimposed spaced horizontal strips secured to the vertical panels providing compartments at the sides of the frame in which oxygen tanks and nozzles for administering oxygen to occupants of the compartments, are stored.

2. In a shelter bed, a bed frame including vertical corner and intermediate posts, a head board and foot board forming a part of the frame, horizontal bars connecting said vertical posts, horizontal spaced panels disposed between the vertical posts providing mattress supports, said horizontal panels dividing said frame into individual compartments, hinged closures closing the ends of the compartments, side panels secured to the sides of the frame, said side panels terminating short of the foot board, hinged closures closing the spaces between the ends of the side panels and foot board, means for operating said closures from the interior of the compartments, and a reinforced protecting cover closing the top of the frame.

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