March 18, 1952 R. E. TEN EYCK 2,589,894

TWO-DECK TRAILER

Filed Nov. 18, 1948 2 SHEETS—SHEET 1

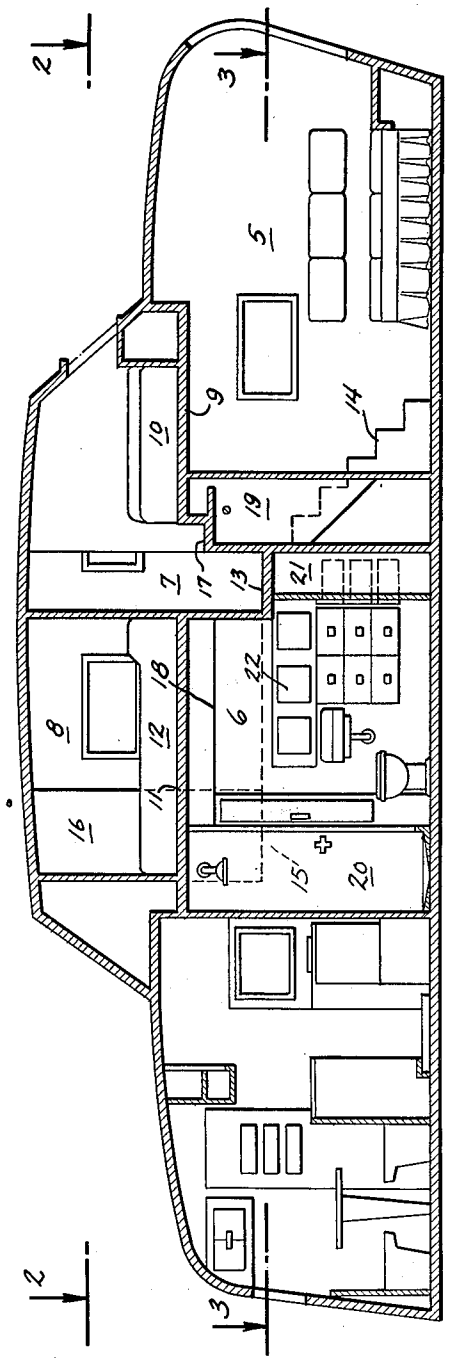


FIG. 1.

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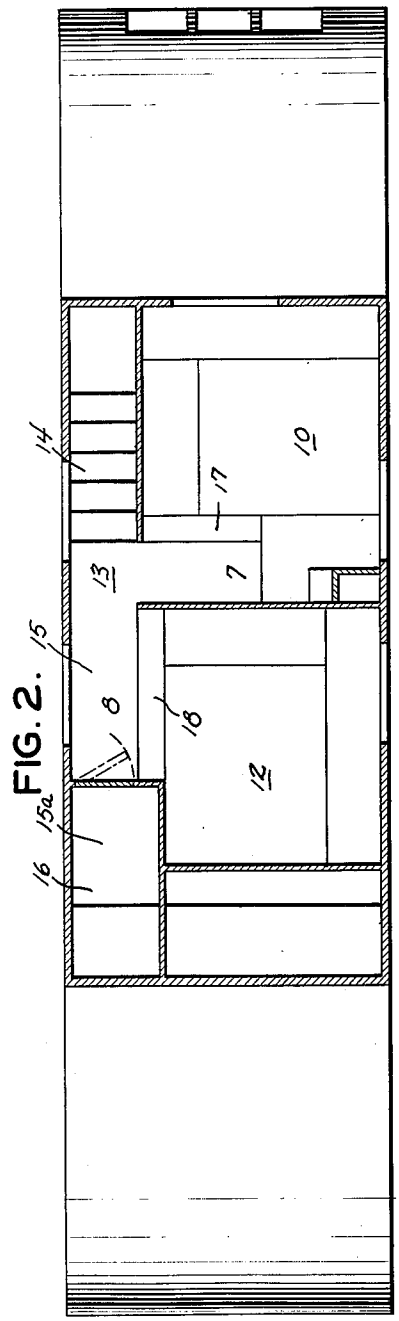


FIG. 2.

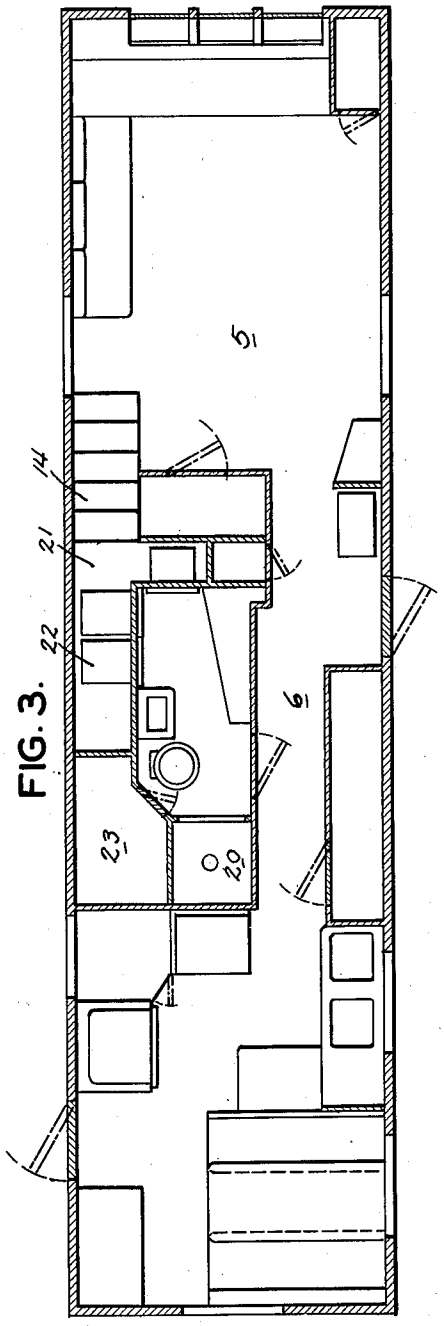


FIG. 3.

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UNITED STATES PATENT OFFICE

2,589,894

TWO-DECK TRAILER

Richard E. Ten Eyck, Wichita, Kans.

Application November 18, 1948, Serial No. 60,702

2 Claims. (Cl. 296—23)

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The invention herein disclosed relates to house trailers.

Special objects of the invention are to attain the advantages of upper and lower floors in a trailer structure without having to double or approximately double the overall height, as customary with two-story structures.

Particularly it is a purpose of the invention to gain the advantages of upstairs and downstairs accommodations within a trailer structure of no greater or not much greater than usual overall dimensions, and to do this without sacrificing advantageous features of such upper and lower floor accommodations.

Further special objects of the invention are to attain all these and related advantages at reasonable cost and in an entirely practical form of structure.

Other desirable objects and the novel features through which all purposes of the invention are attained are set forth or will appear in the course of the following specification.

The drawings accompanying and forming part of the specification illustrate one practical present embodiment of the invention. Structure, however, may be modified and changed as regards the immediate illustration, all within the true intent and broad scope of the invention as hereinafter defined and claimed.

Fig. 1 in the drawings is a longitudinal vertical sectional view of one of the new dual deck trailers;

Fig. 2 is a horizontal sectional view on substantially the plane of line 2—2 of Fig. 1, showing the upstairs plan;

Fig. 3 is a similar view on substantially the plane of line 3—3 of Fig. 1, showing the lower or main floor plan.

The present invention involves the principle of arranging the necessary full height portions of lower and upper floors in staggered relation and locating the less than full height portions of one floor opposite full height portions of the other floor.

In the case illustrated the lower floor is designed with full ceiling height portions as at 5 and 6, for living room and kitchen accommodations, and the upper floor has full ceiling height portions as at 7 and 8 for two upstairs bedrooms offset from or staggered in respect to the downstairs full height spaces.

The ceiling 9 for the living room space forms an elevated support for the bed 10, and the kitchen ceiling 11 provides an elevated support for the bed 12.

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The floor 13 for the full height upstairs space 7 extends transversely from the head of the stairs 14 rising from the living room space and provides a floorway alongside the bed 10, and the floor 15 for the upstairs full height space 8 extending longitudinally back from the stairway provides floorway for the occupants of the second bed 12.

The latter floor 15 is shown extended or continued to the rear to provide flooring at 15a for the full height closet space 16.

The flooring 7 and 8 provides full height standing access alongside both beds and steps are indicated at 17 and 18 above said floor level for providing easy entranceway into and out of such beds.

The less than full height spaces above the full height downstairs spaces are thus utilized as bedrooms carrying full size beds and with full height standing room alongside each bed. The beds, while raised somewhat higher than usual above floor level, are made conveniently accessible through the provision of the step-up ledges 17 and 18.

Full height closet space is provided at 16 by utilizing extension at 15a of the upstairs flooring 15.

To similar effect a full height closet is provided downstairs at 19 beneath the ceiling 9 which also serves as support for the bed 10, and a full height shower stall at 20 beneath the ceiling 11 which forms the support for the bed 12.

The less than full standing height spaces beneath the lowered upstairs flooring 13, 15, are utilized in the illustration for cabinets or closets 21, 22.

Thus practically no space is lost and the advantages of a two story dwelling are attained without the objection of double overall height.

The staggered arrangement of full height upstairs and downstairs spaces, with the necessary partitions and bulkheads stiffens and strengthens the basic structure without adding objectionable weight. The shorter or less than full height cabinets, closets and the like directly opposite the full height sections of the other floors, provide facilities and accommodations for essential household features and may be varied in shape, size and arrangement to suit particular needs.

The less than full height space beneath the full height upstairs closet 16 is shown utilized at 23 as a downstairs storage bin or cabinet.

The many advantages attained by this invention are accomplished, it will be seen, without objectionable additional cost and without adding

objectionably to the bulk or impairing the appearance or streamlined design of the trailer structure.

The lowered upstairs floor construction provides lowered center of gravity, better equilibrium and affords a short stairway of few steps between the two floors.

In accordance with the patent statutes I have described what I now believe to be the preferred embodiment of the invention, but it will be obvious that various changes may be incorporated in arrangement of the compartments and stairway without departing from the spirit of the invention and it is intended that all such changes be included within the scope of the appended claims.

What is claimed is:

1. A house trailer conforming with the limited height requirements for use on highways comprising a lower deck section and an upper deck section which extends over a portion of the lower deck section, the upper deck section comprising walkways of full standing height one of which extends through a portion of the length of the upper deck section adjacent one wall and another of which communicates therewith and extends partially across the width of the upper deck section, a plurality of compartments of less than full standing height in communication with the walkways and a step up therefrom, the lower deck section being subdivided into compartments of full standing height from end to end and from side to side except for areas beneath the walkways, the ceiling of the lower deck section providing the flooring of the upper deck section, and an access stairway communicating the lower deck section with the walkways, the compartments in the upper deck section including one which extends lengthwise alongside the stairway for connection with the crosswise walkway and another which extends crosswise in communication with the lengthwise walkway, the lower deck section having compartments at each end of full standing height from end to end and from side wall to side wall and an intermediate compartment of full standing height except for areas beneath the walkways.

2. A house trailer conforming with the limited height requirements for use on highways comprising a lower deck section and an upper deck section which extends over a portion of the lower deck section, the upper deck section comprising walkways of full standing height extending partially lengthwise and crosswise of the upper deck section, compartments of less than full standing height in communication with the walkways and a step up therefrom and adapted to receive bed members therein, the lower deck section being separated into compartments of full standing height throughout except for the limited lengthwise and crosswise areas beneath the walkways, the ceiling of the lower deck section providing the flooring of the upper deck section, and an access stairway communicating the lower deck section with the walkways, the compartments in the upper deck section including one compartment which extends alongside the stairway and in communication with the walkway and another compartment which extends crosswise to the opposite wall of the trailer in communication with the walkway.

RICHARD E. TEN EYCK.

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