PORTABLE COLLAPSIBLE BUILDING

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The present invention relates to collapsible containers, more particularly to dog kennels, poultry coops, and the like, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a device of this character, constructed of separate parts which may be shipped, knocked down, and assembled where the building is employed.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

A perspective view of the form of collapsible building in accordance with this invention is shown in Figure 1.

A top plan view of the form shown in Figure 1 with the roof removed is shown in Figure 2.

A section on line 3—3 Figure 2 is shown in Figure 3.

A section on line 4—4 Figure 3 is shown in Figure 4.

A section on line 5—5 Figure 1 is shown in Figure 5.

Figure 6 is a sectional detail.

The improved device is designed more particularly for housing and protecting dogs, and comprises a house or kennel divided into two or more compartments, one compartment acting as a runway or hallway, and the other compartment communicating with the runway and adapted to be utilized for sleeping or retiring, and providing protection for the animal from the weather, or from being disturbed by other animals.

Referring to Figures 1 to 6, the form of building disclosed thereby includes a removable floor 34, removable front and rear walls 35, 36 respectively, removable side walls 37, 38 and a removable roof 73. The front wall 35 has an entrance opening 40 to a runway 41 provided by a removable upstanding partition 42, a part of floor 34 and the side wall 38. The runway 41 extends from the front wall 35 to the rear wall 36. The partition 42 is positioned adjacent one side of the vertical medians of the front and rear walls 35, 36 respectively and the side wall 38 and forms in connection with the side wall 37 and another portion of the floor 34 a compartment 43.

The partition 42 has an entrance opening 44 for the compartment 43. Secured to the inner face of front wall 35 is a pair of spaced, parallel vertical bars 45 forming in connection with the front wall a vertical pocket or groove 46 to receive the forward end of partition 42. Secured to the inner face of rear wall 36 is a pair of spaced, parallel vertical bars 47 forming in connection with the rear wall a vertical pocket or groove 48 to receive the rear end of partition 42. The pairs of bars 45, 46 removably retain the partition 42 in an upright position. The partition when in an upright position is mounted on the floor 34.

A pair of front corner posts 49, 50 and a pair of rear corner posts 51, 52 form elements of the building. The front posts are of greater height than the rear posts. The front wall 35 is of greater height than the rear wall 36. The top edges of the side walls incline downwardly from front to rear.

Each corner post between its transverse median and its lower end is formed with an opening 53 extending from its outer side face to its inner side face. The openings 53 in the front posts are arranged parallel to the openings 53 in the rear posts. The openings 53 are arranged in the posts the desired distances above the lower ends of the latter.

The post 49 is detachably connected to the post 52 by a supporting bar 54 standing on its lower longitudinal edge and coupled to said posts by removable pins or bolts 55 extending through the openings 56 formed in the bar 54 in proximity to the ends of the latter and further extending through the openings 53 in posts 49, 51. Each pin 55 has an eye 66 at one end to facilitate the removal thereof. The post 50 is detachably connected to the post 51 by a supporting bar 57 standing on its lower longitudinal edge and coupled to posts 50, 52 by removable pins or bolts 58 extending through openings 59 formed in the bar 57 in proximity to the ends of the latter and further extending through the openings 53 in the posts 50, 52. Each pin 58 has an eye 60 at one end to facilitate the removal thereof.

The floor 34 is removably supported on the top edges of bars 54, 57 and is spaced from the front and rear walls 35, 36 respectively and arranged under the lower ends of the bars 45, 47. The front and rear walls 35, 36 respectively seat upon the bars 54, 57 adjacent the floor 54.

The posts 49, 50 have their rear faces abutting the front face and their outer side faces flush with the side edges of front wall 35. The posts 49, 50 are anchored to wall 35 by holdfast devices. The posts 49, 50 each have a pair of superposed openings 61, 62 extending from the inner to the outer side face thereof. The posts 51, 52 have their forward faces abutting the rear face and their outer side faces flush with the side edges of rear wall 36. The posts 51, 52, each have a...
pair of superposed openings 63, 64 extending from the inner to the outer side face thereof. The holdfast devices for securing a post to a front or rear wall are indicated at 65, Figure 13.

The side wall 37 has secured to its outer face a pair of flat bars 66, 67, the former extending forwardly and the latter rearwardly from such wall. The bar 66 opposes post 49 and is formed with openings aligning with openings 61 in such post. The bar 67 opposes post 52 and is formed with openings aligning with openings 64 in such post. The side wall 38 has secured to its outer face a pair of flat bars 68, 69, the former extending forwardly and the latter rearwardly from such wall. The bar 68 opposes post 50 and is formed with openings aligning with openings 62 in such post. The bar 69 opposes post 51 and is formed with openings aligning with the openings 63 in such post. The openings in the bars 20 66, 67, 68 and 69 are designated 70. The side walls are detachably connected to the posts by headed bolts 71 carrying wing nuts 72. The bolts extend through the openings 70 aligning with the openings 61, 62, 63 and 64.

The roof indicated at 73 inclines from front to rear, is removable and is formed with cleats 74 opposing the posts and inner faces of the side walls. The cleats 74 prevent the roof shifting from off the walls.

The improved device is simple in construction, can be formed of any size or material, or of any number of compartments.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that modifications within the scope of the claimed invention may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

What I claim is:

1. In a collapsible building, a pair of front and a pair of rear corner posts, the posts of each pair being arranged in parallel spaced relation, the posts of the front pair being arranged in parallel spaced relation with respect to the posts of the rear pair, each of said posts being formed with superposed horizontally disposed openings, a front wall secured to the rear faces of the posts of the front pair, a rear wall secured to the forward face of the posts of the rear pair, the bottoms of said walls being spaced above the lower ends of the posts, a pair of removable side walls corresponding in height to that of and arranged between the front and rear walls, flat bars fixed to the outer faces of the side walls and extending rearwardly therefrom to oppose the outer sides of the front posts, flat bars fixed to the outer faces of the side walls and extending rearwardly therefrom to oppose the outer sides of the rear posts, said bars having the extended portions thereof provided with horizontal openings aligning with the openings in said posts, a pair of spaced parallel supports arranged above the lower ends of the posts and below the bottoms of said walls, means for detachably connecting the ends of each support to a front and a rear post, a floor removably mounted on said supports, means extending through said aligning openings for detachably connecting said bars to the posts, and a roof removably mounted on the posts.

2. In a collapsible building, a pair of front and a pair of rear corner posts, the posts of each pair being arranged in parallel spaced relation, the posts of the front pair being arranged in parallel spaced relation with respect to the posts of the rear pair, each of said posts being formed with superposed horizontally disposed openings, a front wall secured to the rear faces of the posts of the front pair, a rear wall secured to the forward face of the posts of the rear pair, the bottoms of said walls being spaced above the lower ends of the posts, a pair of removable side walls corresponding in height to that of and arranged between the front and rear walls, flat bars fixed to the outer faces of the side walls and extending rearwardly therefrom to oppose the outer sides of the rear posts, said bars having the extended portions thereof provided with horizontal openings aligning with the openings in said posts, a pair of spaced parallel supports arranged above the lower ends of the posts and below the bottoms of said walls, means for detachably connecting the ends of each support to a front and a rear post, a floor removably mounted on said supports, means extending through said aligning openings for detachably connecting said bars to the posts, a roof removably mounted on the posts, vertically disposed means removably connected to said front and rear walls to provide in connection with the latter and with the said floor, roof and the side walls a compartment and runway and an entrance from the latter to the former and said front wall being formed with an entrance opening for the runway. WAYNE CUNNINGHAM.