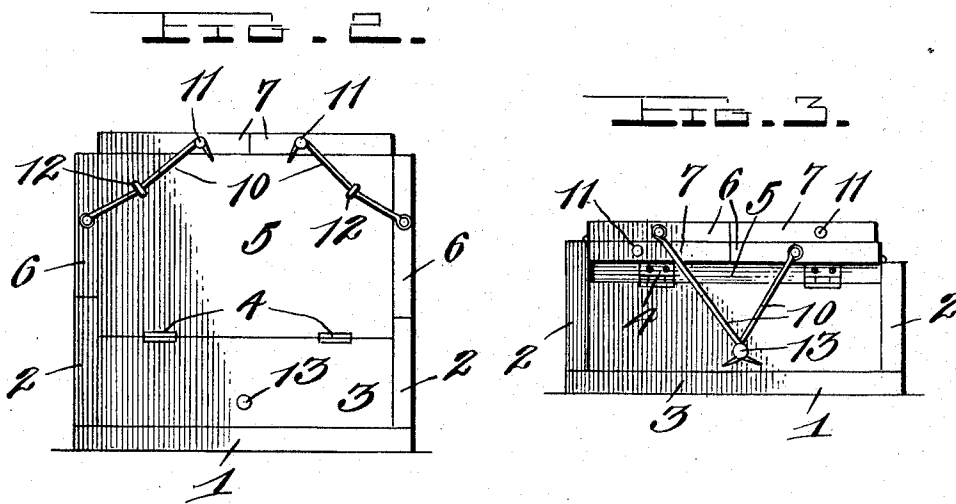
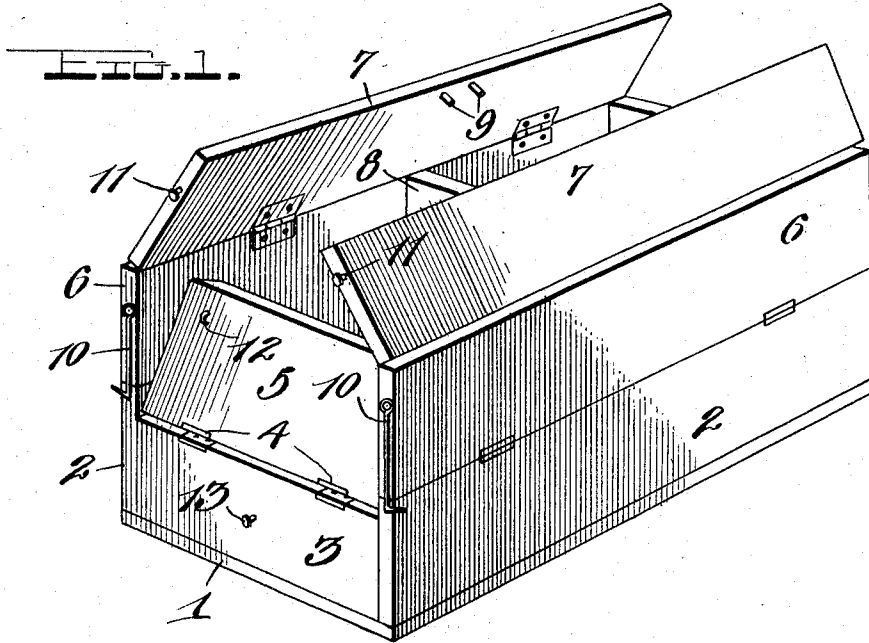


J. H. FARMER.
FOLDING CRATE.
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1,015,430.

Patented Jan. 23, 1912.



Witnesses

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JAMES HENRY FARMER, OF JESSE, OKLAHOMA.

FOLDING CRATE.

1,015,430.

Specification of Letters Patent.

Patented Jan. 23, 1912.

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To all whom it may concern:

Be it known that I, JAMES HENRY FARMER, a citizen of the United States, residing at Jesse, in the county of Pontotoc and State of Oklahoma, have invented certain new and useful Improvements in Folding Crates, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to new and useful improvements in wooden receptacles, and more particularly to that class of receptacles known as folding crates, and my object is to provide a receptacle of this character, which may be easily knocked down and carried from place to place when same is not in use.

A further object is to provide a receptacle the walls of which are adapted to be folded in such a manner as to provide a very compact device.

A further object is to provide means whereby a side wall, an end wall, and a portion of the top may be held in upright position by a single bracing means.

A still further object is to provide bracing means for the device when in upright position, which bracing means shall act in the capacity of locking means when the receptacle is disposed in knock-down position.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing, forming a part of this application, Figure 1 is a perspective view of the receptacle in semi-folded position; Fig. 2 is an end elevation of the receptacle set-up for use; and Fig. 3 is a similar view, showing the walls and top in folded position.

In carrying out my invention, I shall refer to the drawing, in which similar reference characters designate corresponding parts throughout the several views, and in which—

1 indicates the base or bottom of a receptacle having stationary sections 2 of the side walls mounted thereon, and similar sections 3 of the end walls, said end walls being of a height less than the height of the side walls, and one of said side walls being of greater height than the other.

Hingedly secured to the sections 3 of the end walls, through the medium of the

hinges 4, are the foldable sections 5, said sections being adapted to fold inwardly and similarly secured to the side sections 2 are the foldable sections 6 of the side walls, said latter sections being also adapted to fold inwardly. The top of the receptacle is also composed of two sections 7, which sections are hingedly secured to the upper ends of the foldable side sections 6, and are adapted, likewise, to fold inwardly to rest upon the upper edges of the folding side sections 5. The usual removable central wall 8 is also provided which may be held in position in any preferred manner, but preferably, as shown, by providing the vertically extending pins 9 in one of the sections 7 and similar pins (not shown) in the base 1, between which pins said wall is adapted to be held.

In order to brace the various sections of the walls and top when in upright position, I provide the wire hooks 10, which are pivotally mounted on the edges of the side sections 6, and are adapted to be brought into engagement with headed studs 11 mounted on the ends of the top sections 7. The mere engagement of the hooks 10 of the side sections with the studs 11 of the top sections would not provide for the bracing of the end sections 5 when in upright position, so that in order to provide for this feature, the small hooks 12 are securely mounted near the upper ends of the sections 5, said hooks being bent downwardly and inwardly and disposed in the paths of the hooks 10 when adapted for engagement with the studs 11. In setting up the receptacle, therefore, the wire hooks 10 are first brought upwardly into engagement with the downwardly facing hooks 12 and then positioned into engagement with the studs 11, which connections, it will be seen, allow one end section, one side section and one top section to be braced by a single bracing hook. As a pair of hooks are provided at each end of the receptacle, the same when properly engaged with the hooks and studs, will retain the folding sections securely in their upright positions without further bracing means. When it is desired to knock-down the receptacle and fold the various sections thereof, the hooks are first removed from their effective fastening means, and the top sections 7 thrown upwardly to positions contiguous with the side sections 6. The central wall 8 is then removed from its proper position and placed in the bottom of the

receptacle whereupon the end walls are folded inwardly thereby allowing the side sections 6, carrying the top sections 7, to be also folded inwardly to rest upon the said side sections. The side section 6 which is hinged to the shorter of the side sections 2, is the first to be folded inwardly, and as the difference in the height of said side sections 2 is equal to the thickness of a wall, it will be seen, that the section mounted upon the taller wall, may be folded upon the other without unnecessary bulging. When the sections have been properly folded, I have provided for the locking thereof by mounting an additional stud 13 in each of the end sections 3, adjacent the lower central portion thereof, which studs are adapted to receive in engagement therewith the hooks 10. It will be seen, therefore, that through the provision of the additional studs 13, the sections may be locked in folded position through the same bracing means, which is used to brace said sections in upright position. When the sections have been properly locked in their folded positions, as described, the device is extremely compact, and adapted to be shipped from place to place with little or no inconvenience.

From the foregoing, it will be seen that I have provided a receptacle of the folding knock-down type, which is capable of being easily and quickly set-up or knocked down, which when in upright position, will be properly braced, and when in folded position, securely locked in compact form. It will further be seen that I have provided a means for retaining an end wall, a side wall, and a top section in upright position through the medium of a single bracing hook, and it will still further be seen that by providing a pair of such hooks at each end of the receptacle, all of the sections may be securely retained in upright position. It will still further be seen, that the bracing means for the sections in upright position are adapted to perform the functions of

locking means for the sections in their folded positions.

What I claim is:

1. A device of the character described, comprising a receptacle having foldable side and end sections, foldable top sections carried by said side sections, all of said sections being foldable inwardly, hooks carried by the ends of said side sections, studs carried by the ends of said top sections adapted to receive said hooks, and means on said end sections engaging portions of said hooks, whereby said sections will be held in upright position.

2. A device of the character described, comprising a receptacle having portions of the side and end walls foldable inwardly, top sections hingedly mounted upon the outer ends of the foldable side portions, and also folding inwardly, bracing hooks carried by the ends of the folding side portions, and means on the folding end and top sections adapted to engage portions of said hooks, whereby a single hook is adapted to retain a folding end, side and top section in upright position.

3. A device of the character described, comprising a receptacle having inwardly folding side and end walls, inwardly folding top sections carried by the side sections adapted to rest upon the end walls, hooks carried by the ends of said side sections, studs carried by the ends of the top sections adapted to receive said hooks, and additional hooks carried by the end sections adapted to engage a portion of the afore-said hooks, whereby all of said folding sections may be held in upright position, by the same bracing means.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JAMES HENRY FARMER.

Witnesses:

W. J. BAUGH,
STANLEY MCGEE.