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RECEPTACLE.

APPLICATION FILED APR. 26, 1919.

1,326,353.

Patented Dec. 30, 1919.

2 SHEETS—SHEET 1.

Fig. 1

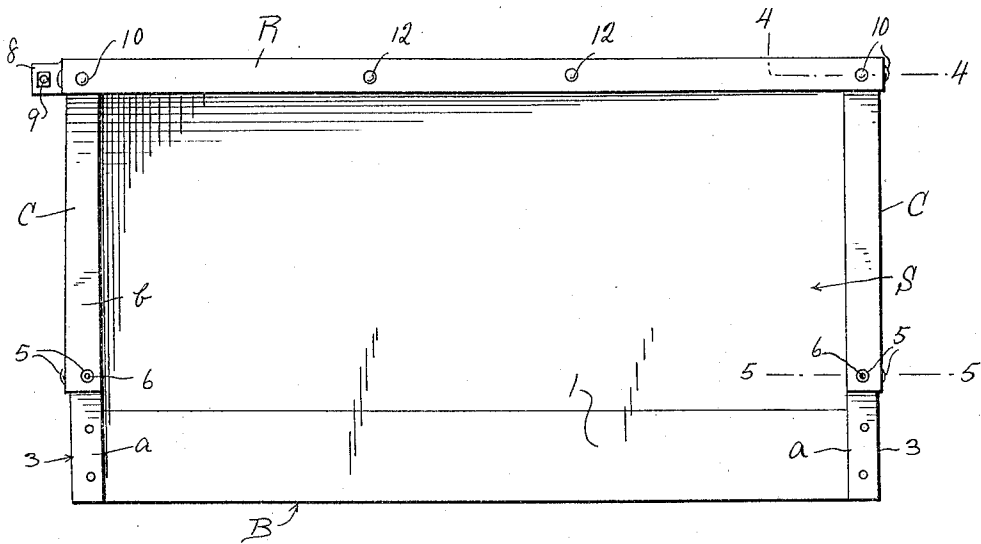
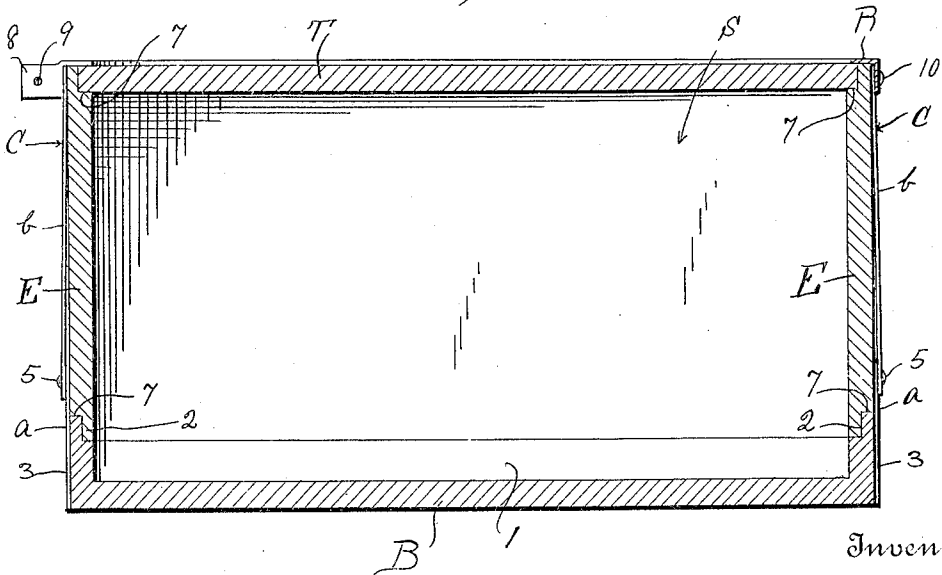


Fig. 2



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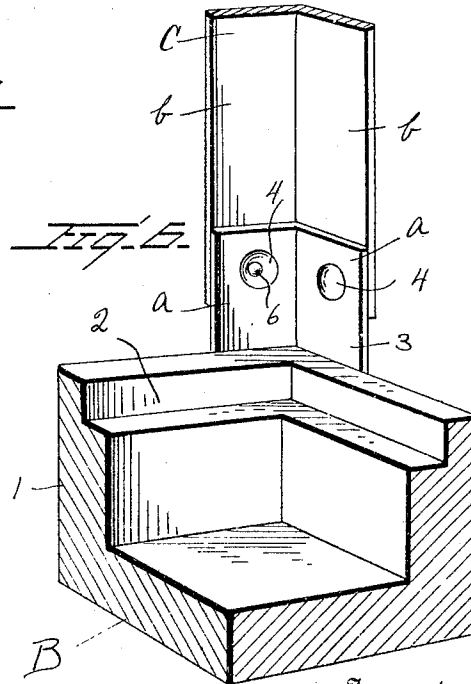
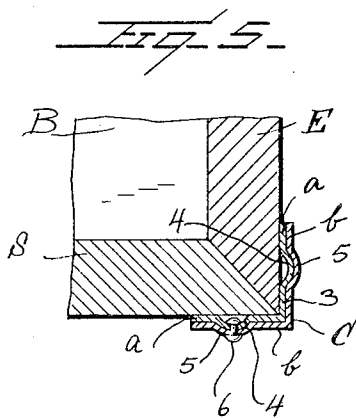
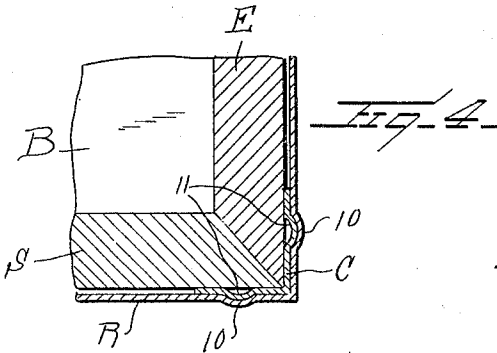
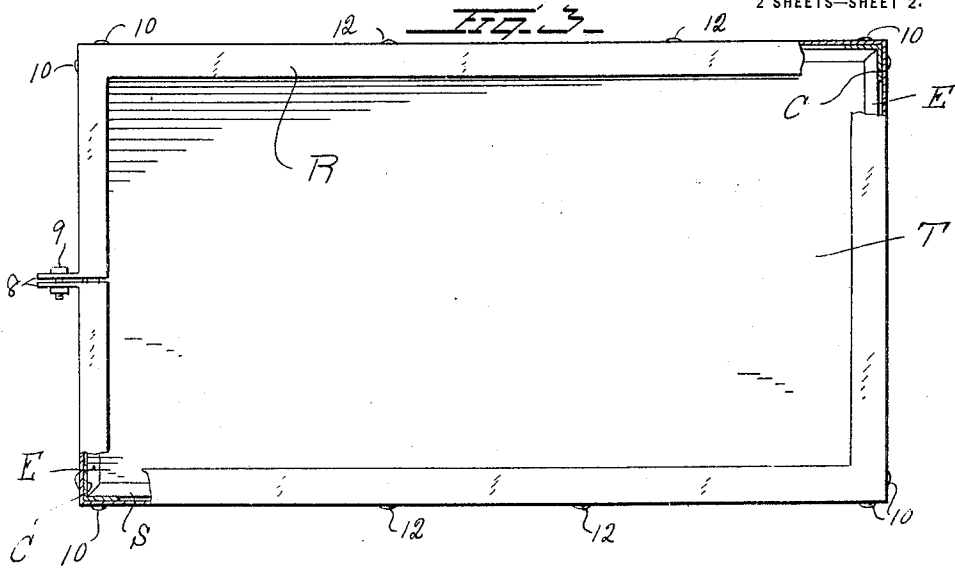
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UNITED STATES PATENT OFFICE.

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RECEPTACLE.

1,326,353.

Specification of Letters Patent.

Patented Dec. 30, 1919.

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To all whom it may concern:

Be it known that I, HIRAM D. LAYMAN, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Receptacles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in receptacles and has relation more particularly to a device of this general character of a knock-down or collapsible type so that the same may be compacted or folded within a comparatively small compass in order to facilitate return shipping or storage, and it is an object of the invention to provide a receptacle of this character with novel and improved means whereby the same may be effectively held in assembled relation and also whereby the various parts may be maintained against relative displacement when folded or collapsed.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved receptacle whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a view in side elevation of a receptacle constructed in accordance with an embodiment of my invention.

Fig. 2 is a vertical sectional view taken longitudinally through the device as illustrated in Fig. 1.

Fig. 3 is a view in top plan of a structure as herein disclosed with parts broken away.

Fig. 4 is a sectional view taken substantially on the line 4—4 of Fig. 1.

Fig. 5 is a sectional view taken substantially on the line 5—5 of Fig. 1, and

Fig. 6 is a fragmentary view in perspective illustrating in detail certain features as embodied in the device as now disclosed.

As disclosed in the accompanying drawings, B denotes a bottom panel of desired configuration and dimensions and which has its marginal portions defined by the perpendicularly related flanges 1. The upper marginal portions of the flanges 1 are provided with the internal rabbets 2.

Suitably secured to each corner portion of the bottom panel B and the flanges 1 is an angle iron 3 extending beyond the free marginal portions of the flanges 1. The outer end portion of the flange *a* of each of the irons 3 has pressed outwardly therefrom the parti-spherical protuberance or head 4 for a purpose to be hereinafter more particularly referred to.

C denotes a corner post coacting with the extended portion of each of the angle irons 3 and said post C also constitutes an angle iron which, when in extended position, has an end portion overlying the coacting iron 3. Said end portions of the flanges *b* upon the post C have pressed therein the sockets 5 to receive the heads 4, and directed through a coacting head 4 and socket 5 is a pivot member 6 whereby the post C is capable of swinging movement. When the post C is swung toward the bottom panel P, the inherent resiliency possessed by the outer flange *b* of the post permits the same to travel over the adjacent flange *a* of the iron 3 and which movement is further facilitated by the inherent resiliency possessed by said flange *a*. This is also true when the post C is swung into an extended position. When in extended position, the coaction of the heads 4 and sockets 5 serve to maintain said post C in such position.

E denotes the end panels of my improved receptacle and which have opposed marginal portions provided with the oppositely facing rabbets 7 so that a marginal portion of each of said end portions may fit within a rabbet 2 of an end flange 1 of the bottom panel B. When so engaged, the second rabbet 7 of the end panel E at the top of the receptacle faces inwardly, as is particularly illustrated in Fig. 2 of the accompanying drawings.

The side panels S of the receptacle have their upper and lower marginal portions rabbeted similarly to the end panels E while it is preferred that the end edges of the panels E and S be beveled, as particularly

illustrated in Figs. 4 and 5, so that when the panels E and S are in extended or working position, the same are effectively jointed.

The corner posts C, when extended, coact with the panels E and S to maintain the same in proper relation and said corner posts C are further maintained in their extended positions through the instrumentality of a retaining band R and which band also serves to maintain the top panel T in applied position. The retaining band R is also angular in cross section, as particularly illustrated in Fig. 2, and substantially conforms to the configuration of the receptacle when assembled and said band R is split with its extremities provided with the outstanding ears or lips 8 with which coact a clamping or binding medium 9 herein disclosed as a conventional bolt and nut.

The corner portions of the band R have pressed therefrom the inwardly facing and parti-spherical sockets 10 which receive the outstanding and parti-spherical heads 11 pressed from the adjacent end portions of the flanges *b* of the corner posts C, whereby the retaining band R is effectively maintained against displacement after proper adjustment of the binding means 9 and the corner posts C held in desired positions.

The side portions of the retaining band R are also provided with the supplemental inwardly facing sockets 12 which receive the heads 11 of the corner posts C when the receptacle is compacted or folded.

When it is desired to compact or fold the receptacle, the retaining band R is removed and the panels T, E and S arranged in superimposed relation with respect to the bottom panel B. The corner posts C are then caused to swing inwardly toward the bottom panel B. The retaining band R is then arranged to hold said overlying panels against relative displacement and in a position whereby the band extends around the irons 3 with the heads 4 of said irons 3 seated within the sockets 10 of the band R and the heads 11 of the posts C seated within the sockets 12 of the band. By properly operating the binding means 9, the retaining band R is effectively clamped to the irons 3 and the folded or compacted panels maintained against displacement.

From the foregoing description, it is thought to be obvious that a receptacle constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in

carrying out my invention in practice except as hereinafter claimed.

I claim:

1. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being angular in cross section to overlies an end panel and a side panel, and coacting means carried by each of the corner posts and corner members for holding the post in extended position, each of the posts when extended being substantially in longitudinal alinement with its coacting corner member.

2. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being angular in cross section to overlies an end panel and a side panel, and coacting means carried by each of the corner posts and corner members for holding the post in extended position, said means comprising an interfitting head and socket.

3. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being angular in cross section to overlies an end panel and a side panel, frictional coacting means carried by each of the corner posts and corner members for holding the post in extended position, and a retaining band adapted to be disposed around the side and end panels and the corner posts.

4. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being angular in cross section to overlies an end panel and a side panel, coacting means carried by each of the corner posts and corner members for holding the post in extended position, and a retaining band adapted to be disposed around the side and end panels and the corner posts, said band and corner posts being provided with coacting frictional locking means.

5. A collapsible receptacle comprising a bottom panel, corner irons carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner

posts pivotally engaged with the corner irons, each of said posts being angular in cross section to overlies an end panel and a side panel, coacting means carried by each of the corner posts and corner irons for holding the post in extended position, and a retaining band adapted to be disposed around the side and end panels and the corner posts, said band and corner posts being provided with coacting locking means, said locking means comprising interfitting heads and sockets.

6. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being angular in cross section to overlies an end panel and a side panel, coacting means carried by each of the corner posts and corner members for holding the post in extended position, a top panel coacting with the side and end panels, and a retaining band adapted to be disposed around the side and end panels and of a cross sectional configuration to overlies the marginal portions of the top panel, said retaining band and corner posts being provided with automatically coacting interlocking means.

7. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond a face thereof, separate end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being angular in cross section to overlies an end panel and automatically a side panel, and coacting means carried by each of the corner posts and corner members for holding the post in extended position, the bottom panel and end panels interfitting when in assembled relation.

8. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and perpendicularly related thereto, said corner members extending beyond the face of the bottom panel, separate

end and side panels adapted to be positioned upon the bottom panel, corner posts pivotally engaged with the extended portions of the corner members, each of said posts being of a formation in cross section to overlies an end panel and a side panel, and coacting means carried by each of the corner posts and the extended portion of the coacting corner member adjacent its pivotal connection with the corner member for holding the post in extended position.

9. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and substantially perpendicular thereto, said corner members extending beyond the face of the bottom panel and angular in cross section, separate end and side panels adapted to be positioned upon the bottom panel, each of the corner members overlying an end panel and a side panel, corner posts pivotally engaged with the extended portions of the corner members, each of said posts being of a cross sectional configuration to overlies an end panel and a side panel, the extended portion of each of the corner members and the coacting corner post being provided with interfitting means for holding the corner post extended.

10. A collapsible receptacle comprising a bottom panel, corner members carried by said panel and extending beyond the face thereof, separate end and side panels adapted to be positioned on the bottom panel, corner posts pivotally engaged with the corner members, each of said posts being of a cross sectional configuration to overlies an end panel and a side panel, and a retaining band adapted to be disposed around the side and end panels, said corner members, corner posts and retaining band being provided with interfitting heads, and sockets for holding the receptacle assembled or collapsed.

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

HIRAM D. LAYMAN.

Witnesses:

E. A. REID,

W. E. LAWSON.