R. W. JEFFERIS.

METAL LOCKER.

APPLICATION FILED FEB. 3, 1909.

948,628.

Patented Feb. 8, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

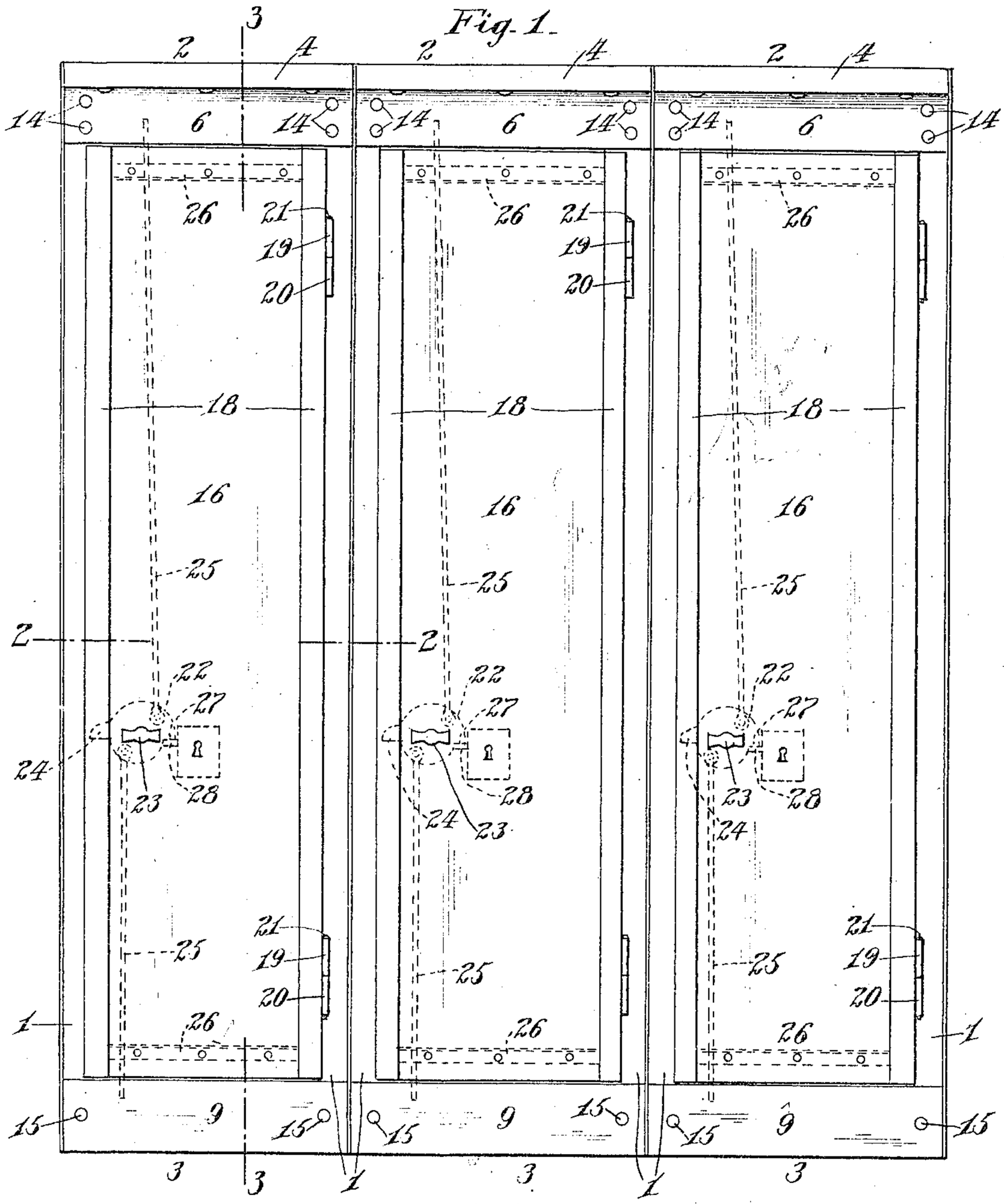
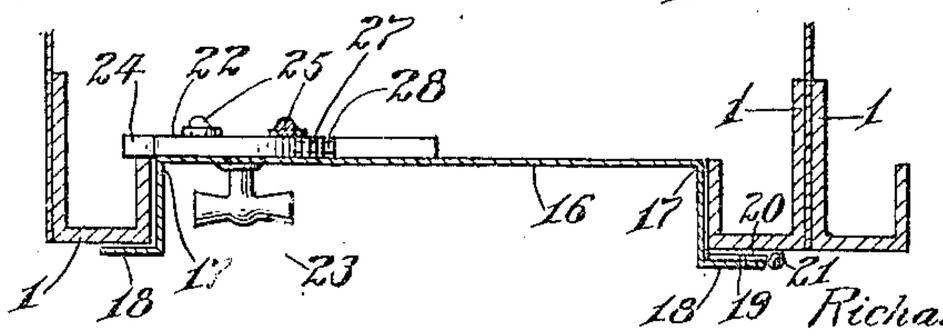


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

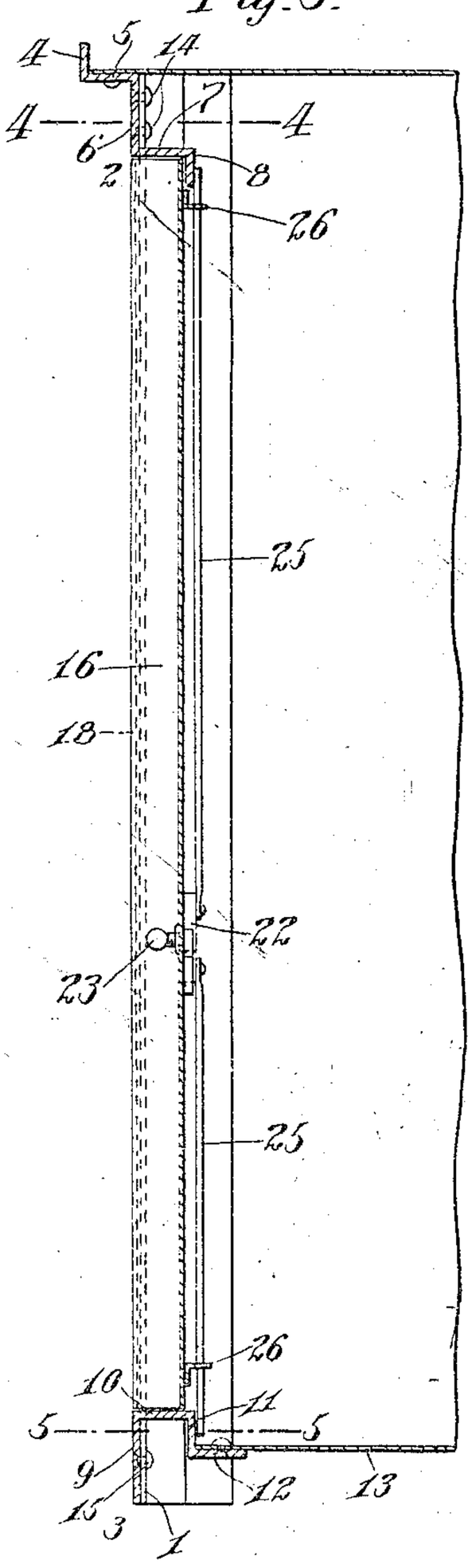


Fig. 4.

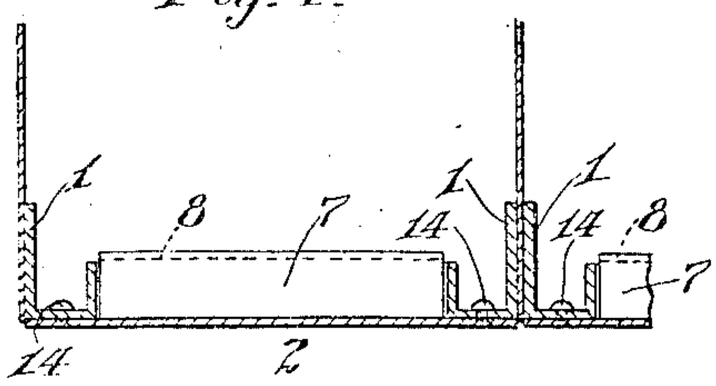
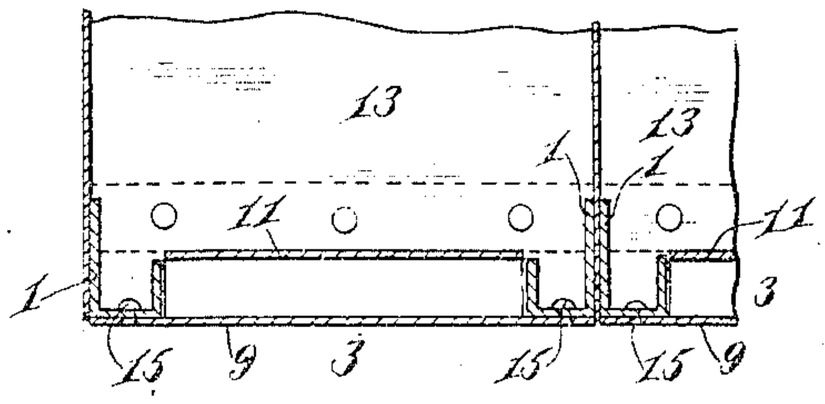


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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METAL LOCKER.

948,628. Specification of Letters Patent. Patented Feb. 8, 1910.

Application filed February 3, 1909. Serial No. 475,746.

To all whom it may concern:

Be it known that I, RICHARD W. JEFFERIS, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Metal Lockers, of which the following is a specification.

My invention relates to improvements in metal lockers, and more particularly to improvements upon the construction disclosed in my application for patent filed November 29, 1907, and given Serial No. 404,246, the object of the invention being to provide an improved construction of locker front, and an improved door construction and mounting.

With these and other objects in view, the invention consists in certain novel features of construction, and combinations, and arrangements of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1, is a view in front elevation illustrating my improvements. Fig. 2, is a view in section on the line 2—2 of Fig. 1. Fig. 3, is a view in section on the line 3—3 of Fig. 1. Fig. 4, is a view in section on the line 4—4 of Fig. 3, and Fig. 5, is a view in section on the line 5—5 of Fig. 3.

1, 1, represent vertical parallel channel bars, constituting posts, forming the vertical members of the door frame or front, and 2 and 3 are the top and bottom horizontal bars respectively.

The top bar 2, as shown in Fig. 3, is bent at right angles at three points, giving to the bar a general stepped formation which is ornamental and especially adapted for my improved construction. For convenience of description I have placed reference character 4 on the upper outer vertical portion of said cross bar 2, and the character 5 on the inwardly projecting horizontal portion directly below; 6 on the vertical portion at the inner edge of portion 5; 7 on the horizontal portion at the lower edge of portion 6; and 8 on the depending vertical lip at the inner edge of portion 7, which serves as a stop, to limit the inward movement of the door. The lower cross bar 3 is bent forming a vertical front portion 9, a horizontal sill portion 10, a depending shoulder portion 11, and a horizontal inwardly projecting lip portion 12, to which the bottom 13 is secured. The channel bar posts 1, 1, are made with the outer flanges of the channel wider than are the inner flanges, as clearly shown in Figs. 2, 4 and 5, and the upper and lower cross bars 2 and 3 respectively, are notched or recessed to accommodate the posts 1.

As seen in Fig. 4, the recesses in the upper cross bar 2 extend through the portions 7 and 8 of the bar, so as to position the posts 1 in the rear of the vertical portion 6, and rivets 14 secure the post to the vertical portion 6 of the cross bar 2. As seen in Fig. 5, the lower cross bar 3 is provided with notches or recesses in the sill portion 10 only, to accommodate the posts 1, and the latter are secured to the front portion 9 of the cross bar 3 by rivets 15, thus forming an extremely strong front or door frame, to which the top, sides and bottom are to be secured in any approved manner, this invention being particularly to the front construction, and may be used with various forms of apparatus.

16 represents my improved door, which is composed of a single sheet metal blank, bent at right angles at its longitudinal edges, as shown at 17, and again bent at right angles as shown at 18 forming lips or tongues to engage the posts 1, 1, and position the door above the sill portion 10 of the lower cross bar 3, and below the horizontal portion 7 of upper cross bar 2, the inward movement of the door being limited by the depending tongue 8 of the upper bar 3, and also by the tongue portions 18 of the door engaging the post.

By bending the door as above explained, is so positioned under the upper cross bar 2, when the door is closed, that it cannot possibly be raised, so as to disengage the hinged members 19 and 20. These hinged members 19 and 20 are secured to a post 1 and the door 16 respectively, the door members 20 carrying pins 21 to enter the sleeves of the post members 19 to permit an easy removal of the door when open. In other words, when the door is open, it can be readily lifted out of hinged engagement, as is the case with an ordinary butt hinge, but when the door is closed, it is impossible to lift the same, and furthermore, the hinge members are hid and cannot be unfastened, as the lip portion 18 of the door effectually conceals the wing or leaf portions of the hinges.

To the inner face of the door, a locking

plate 22 is mounted, and is preferably of the shape shown by dotted lines in Fig. 1, and operated by a knob or hand hold 23 on the outside of the door to turn the same to position the locking tongue 24 back of the channel 1, and assist in locking the door, or to turn the plate 22 to unlocked position. This plate 22 at opposite sides of its pivotal point, is pivotally connected to vertically extending bolts 25, the latter mounted in strengthening angles 26 at the upper and lower portions of the door and adapted when the plate 22 is turned to one position, to project behind the upper and lower cross bars 2 and 3 respectively to effectually lock the door.

The locking plate 22 is made with a shoulder 27, and a locking bolt 28 operated by any desired locking means, is adapted to engage below the shoulder 27 and secure the locking plate 22 against turning when in locked position. I have illustrated an ordinary lock operated by a key, but my improvements may also be used with combination or other locks.

A great many slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A metal locker, comprising parallel vertical channel bars, upper and lower cross bars having inwardly bent portions notched or recessed to accommodate the vertical channel bars, and position said channel bars against the inner faces of said cross bars, devices securing said vertical bars and cross bars together, and a door mounted when closed between the said vertical channel bars and the cross bars, and having bent longitudinal edges overlapping the channel bars.

2. A metal locker, comprising vertical channel bars, and upper and lower cross bars secured to the channels, a door having two of its edges bent twice at right angles forming outwardly projecting lips at its edges to engage the outer faces of two of said bars, and position the body of the door between the channel bars and the cross bars.

3. A metal locker, comprising vertical channeled posts, upper and lower cross bars having recessed or notched ends to receive the posts and secured thereto, a door having its vertical edges bent twice at right angles forming outwardly projecting lips at its edges to engage the outer face of the channels and position the body of the door between the channels and the upper and lower cross bars.

4. A metal locker, comprising vertical channeled posts, upper and lower cross bars having recessed or notched ends to receive the posts and secured thereto, a door having its vertical edges bent twice at right angles forming outwardly projecting lips at its edges to engage the outer face of the channels and position the body of the door between the channels and the upper and lower cross bars, hinges for the door, each comprising two members, one member secured to one of the posts, and the other to the inner face of a lip portion of the door, whereby the wing or leaf portions of the hinges are concealed between the door and the post.

5. A metal locker, comprising vertical parallel channeled posts, the outer flanged members of the posts wider than the inner members, upper and lower cross bars having recessed ends to receive said posts and secured thereto, a door adapted when closed to lie between the posts and the cross bars, hinges connecting one edge of the door with one of the posts, locking means on the door and lips on the door and on the upper cross bar limiting inward movement of the door.

6. A metal locker, comprising vertical parallel channeled posts, the outer flange members of the posts wider than the inner members, upper and lower cross bars having recessed ends to receive said posts and secured thereto, top, sides and bottom secured to said posts and bars, a door hinged to one of said posts, and adapted when closed to lie between the posts and the cross bars, flanges at the side edges of the door limiting the inward movement thereof, and locking means on said door for locking the same in closed position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RICHARD W. JEFFERIS.

Witnesses:
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J. A. L. MULHALL.