

1,038,923.

Patented Sept. 17, 1912.

Fig. 1.

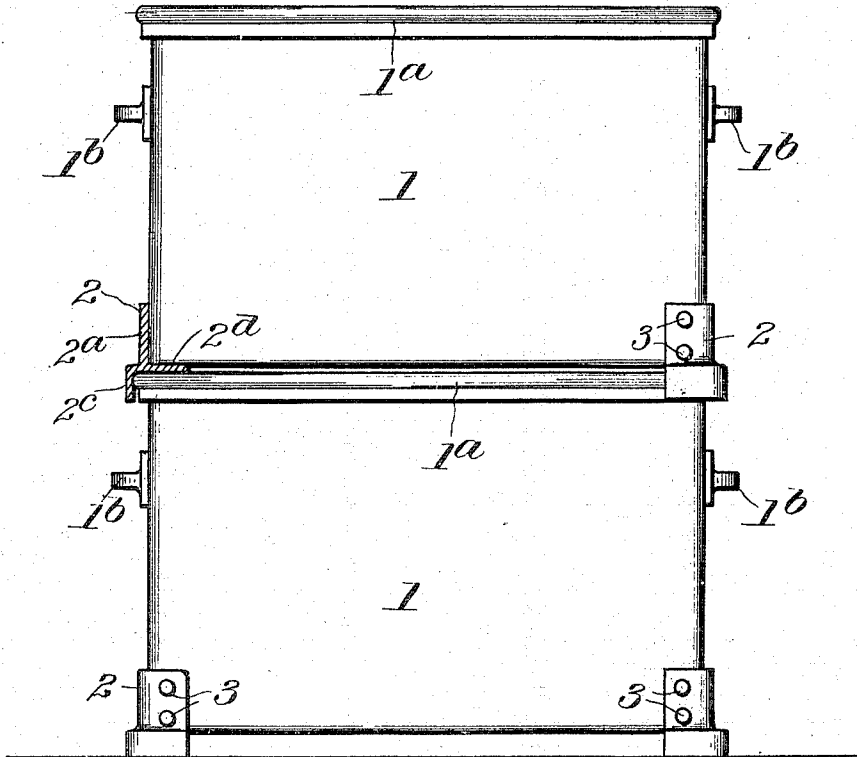


Fig. 2. Fig. 3.

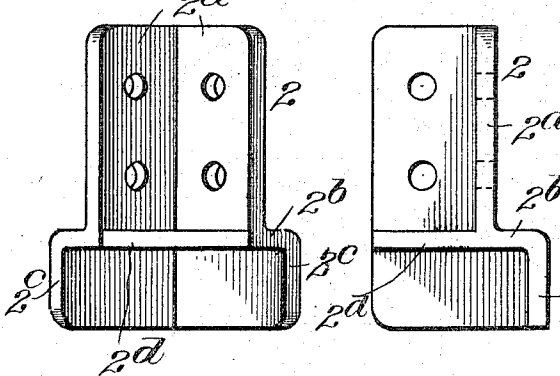


Fig. 4.

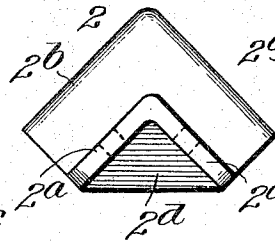
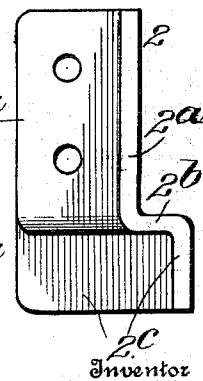


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOSEPH MATHY, OF WASHINGTON, DISTRICT OF COLUMBIA.

CRATE-CORNER LOCK.

1,038,923.

Specification of Letters Patent.

Patented Sept. 17, 1912.

Application filed May 27, 1909. Serial No. 498,727.

To all whom it may concern:

Be it known that I, JOSEPH MATHY, of Washington, in the District of Columbia, have invented certain new and useful Improvements in Crate-Corner Locks; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

10 This invention is an improvement in metallic crates for transporting bottles of milk, beer, etc., and its object is to provide novel devices whereby when the crates are piled one on top of the other they will be kept from lateral or horizontal displacement.

The invention consists in novel corner pieces attached to the bottom corners of the crates and which serve both as feet to support the crate when placed on a flat surface, and as means for locking the crates against lateral displacement when piled one upon another.

I will now describe the invention with reference to the accompanying drawings in which—

Figure 1 is a side view of two crates provided with my improved corner pieces, and piled one on top of the other. Fig. 2 is a view of one of the corner pieces enlarged. Fig. 3 is a side view thereof. Fig. 4 is a plan view. Fig. 5 is a side view of a slight modification.

The crates 1 are preferably rectangular and made of metal, and are provided with top stiffening bands or flanges 1^a, and with handles 1^b of any suitable kind. To the lower corners of each crate are secured novel corner pieces 2 which have two vertical side portions 2^a, at right angles to each other adapted to fit against the end and side of the box at the corner thereof, and are secured thereto by rivets 3; I preferably use two rivets in each part 2^a so as to securely fasten the corner pieces to the box. The parts 2^a are provided with outwardly projecting horizontal flanges 2^b, from which depend short vertical flanges 2^c. The corner pieces are preferably attached to the box in such manner that the underside of the

flanges 2^b are substantially flush with the bottom of the box, while the flanges 2^c project below the box and form feet upon which the box will be upheld slightly above the surface upon which it is placed; as indicated by the lower box, Fig. 1. The foot portions 2^c project slightly beyond the side and end walls of the box and are adapted to fit easily over the corners of the top flange 1^a of an underlying box, when one box is placed on another, as indicated in Fig. 1, and will effectively prevent lateral or longitudinal movement of one box relative to the other when thus arranged.

In order to relieve the strain on the rivets 3 a web 2^d may be formed between the lower ends of the parts 2^b as indicated in Figs. 2, 3 and 4,—the web 2^d being preferably flush with the flanges 2^b. In some cases this web may be omitted as indicated in Fig. 5. It is obvious that by using such corner pieces the boxes can be made with vertical sides, as the bottom corner pieces of an upper box will engage the top corners of a lower box and keep the boxes in proper relative position when piled one upon the other.

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

1. In combination a metallic box, with corner pieces having vertical portions extending at right angles to each other adapted to fit the corner of a box, horizontally extending flanges at the lower end of the vertical portions and short vertical pieces at the outer end of the horizontal flanges,—and a web at the lower ends of the vertical portions adjacent the horizontal flanges said web extending under the adjacent corner of the box to support the same.

2. In combination with a metallic box having vertical sides and flanged upper edge, of corner pieces having vertical side portions extending at right angles to each other adapted to fit the corner of a box and be attached thereto by rivets, horizontally extending flanges at the lower ends of these side portions, and short vertical pieces at the outer ends of the horizontal flanges,—and a web adjacent the horizontal flanges

underlying the corner of the box and supporting it on the corner piece, said corner pieces being adapted to serve as feet for the box, and as means to prevent lateral and
5 horizontal movement of a superposed box relative to the underlying box.

In testimony that I claim the foregoing

as my own, I affix my signature in presence of two witnesses.

JOSEPH MATHY.

Witnesses:

JAMES R. MANSFIELD,
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