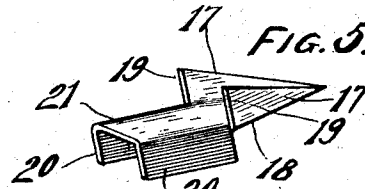
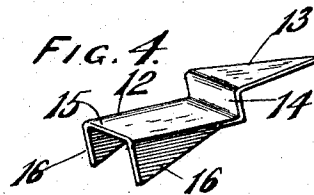
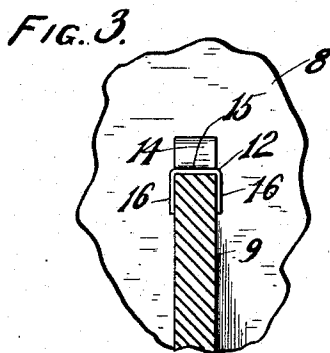
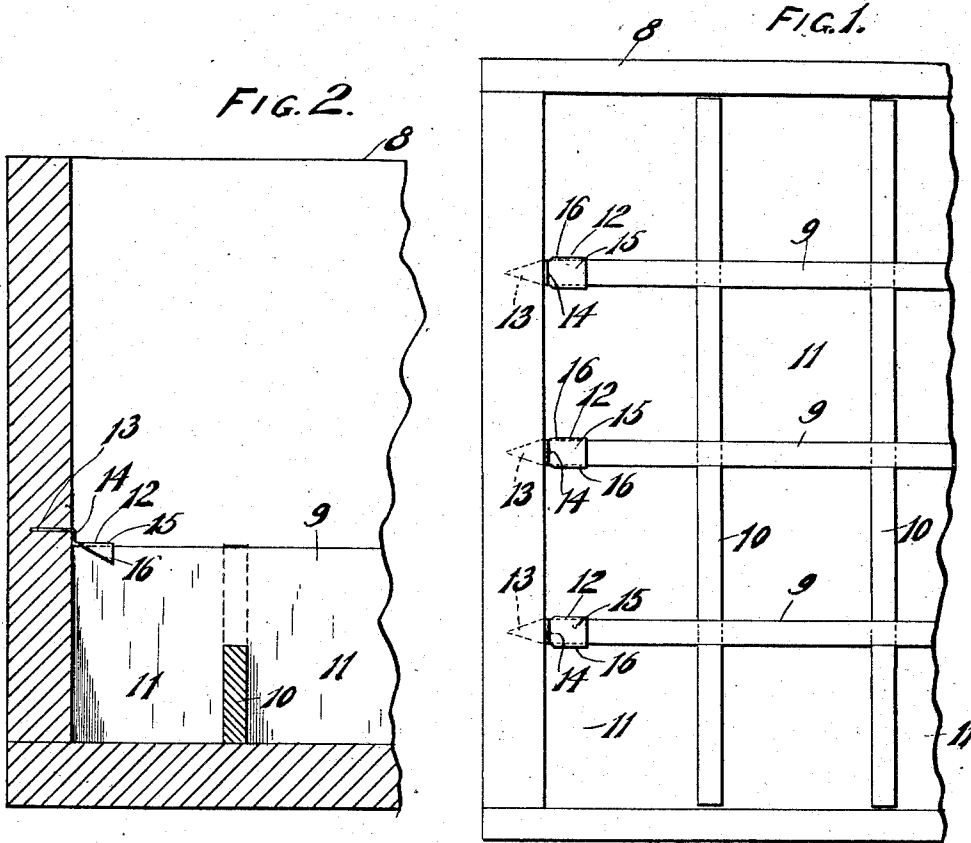


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RACK HOLDER.

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1,015,278.

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WITNESSES

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RACK-HOLDER.

1,015,278.

Specification of Letters Patent.

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Application filed November 16, 1910. Serial No. 592,675.

To all whom it may concern:

Be it known that I, SIMON VOLZ, a citizen of the United States, resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Rack-Holders, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention relates to improvements in rack holders and more particularly to rack holders adapted to be used in fastening longitudinal and transverse strips within a box which serve as partitions to separate articles placed within the box.

It is the usual custom in shipping bottled goods in boxes to separate the bottles from contact with each other by means of a plurality of partition strips positioned to form pockets into which the bottles are placed. These partition strips usually extend from side to side and end to end of the box, and the endwise strips which extend over the sidewise strips are held in place by means of small blocks of wood nailed to the end pieces of the box and extending over the upper edges of the endwise strips. As these blocks extend into the pockets of the box comparatively a considerable distance they soon become knocked off and permit the partition strips to be removed from the box and lost. In boxes which are used over and over again, this loss entails in the aggregate a considerable expense to users of a large number of the boxes.

It is one of the objects of this invention to provide a rack holder which is adapted to securely fasten the partition strips or racks in the box and which is approximately flush with the portions of the box and rack engaged thereby.

A further object of the invention is to provide a rack holder formed of an integral piece of metal shaped to be easily driven into the box and to securely fasten the partition strips to the box and also against lateral displacement.

With the above, and other objects in view, the invention consists of the rack holder and its parts and combinations as set forth in the claim, and all equivalents thereof.

In the accompanying drawing in which the same reference characters indicate the same parts in all of the views: Figure 1 is a top view of a portion of a box provided

with partition racks and with the improved rack holders; Fig. 2 is a vertical sectional view thereof; Fig. 3 is a detail view of a portion of the box and a transverse sectional view of one of the partition racks connected thereto by one of the holders; Fig. 4 is a perspective view of the improved rack holder; and Fig. 5 is a perspective view of a modified form of rack holder.

Referring to the drawing the numeral 8 indicates a box of ordinary construction which is provided with longitudinal and transversely positioned partition slats or racks 9 and 10 respectively to form pockets 11. The pockets are adapted to accommodate bottles or other fragile receptacles and the racks to space the bottles or receptacles from each other to prevent breakage. The longitudinal and transverse partition rack strips are held in spaced relation with each other and connected together by halving joints, with the longitudinal rack strips extending on top of the transverse rack strips so that it is only necessary to fasten the longitudinal rack strips in order to hold the complete rack in position within the box.

The rack holder consists of approximately a V-shaped piece of sheet metal 12 with the pointed end portion 13 bent upwardly and forwardly with a double bend to form a shoulder portion 14 extending at right angles with relation to the body portion 15 and the pointed end portion 13. The side portions of the body of the rack holder are bent downwardly at right angles to form partition strip engaging wings 16 which are adapted to extend on each side of the upper edges of the longitudinal partition strips 9. The wings are spaced a sufficient distance apart to closely engage the side faces of the strips. The pointed end of the holder is preferably formed flat in order to be easily driven into the box ends which are usually formed with the grain of the wood extending from side to side.

In the modified form of holder shown in Fig. 5 the side edges 17 of the pointed portion 18 are bent upwardly at right angles to the pointed portion to form shoulders 19 and wings 20 are bent downwardly from the body portion 21 in the same manner as in the principal form of holder. In use the holders are placed on top of the longitudinal strips with the depending wings engaging the

sides of the strips and the pointed end of each holder is then driven into the end of the box up to the shoulder of the holder. The shoulder forms a convenient place for striking with a hammer in driving and when in final position the shouldered portion, the body portion and the depending parts are approximately flush with the parts they respectively engage. In driving the holder to its final position the body portion and the depending wings will slide along the upper edge and sides of the rack strip. As the longitudinal strips extend on top of the transverse strips, it is only necessary to fasten the ends of the longitudinal strips to securely hold the whole rack in the box. The modified form of holders are used in the same manner as the principal form with the exception that the edges of the upstanding wings serve as the shoulders and the pointed end is driven partly at right angles with relation to the grain of the wood.

From the foregoing description it will be seen that the holder is very simple in construction and inexpensive to manufacture and is easily connected to boxes.

What I claim as my invention is:

In combination with a box provided with rack strips positioned to form pockets, of a rack holder comprising approximately a V-shaped piece of sheet metal with the pointed end portion thereof bent upwardly and forwardly with a double bend to form a shoulder extending at right angles with relation to the body portion and a pointed end portion extending forwardly from the upper edge of the shoulder and with the side edges of the body portion bent downwardly at right angles to the body portion to form rack strip engaging wings, said body portion adapted to be placed on top of the upper edge of one of the rack strips with the wings engaging and extending on each side thereof and with the pointed end portion driven into one of the walls of said box to hold said rack strip within the box.

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

SIMON VOLZ.

Witnesses:

C. H. KEENEY,
LAURA A. KELLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."