

J. C. MILLER.
BOTTLE CASE.
APPLICATION FILED MAY 21, 1906.

1,038,626.

Patented Sept. 17, 1912.

3 SHEETS—SHEET 1.

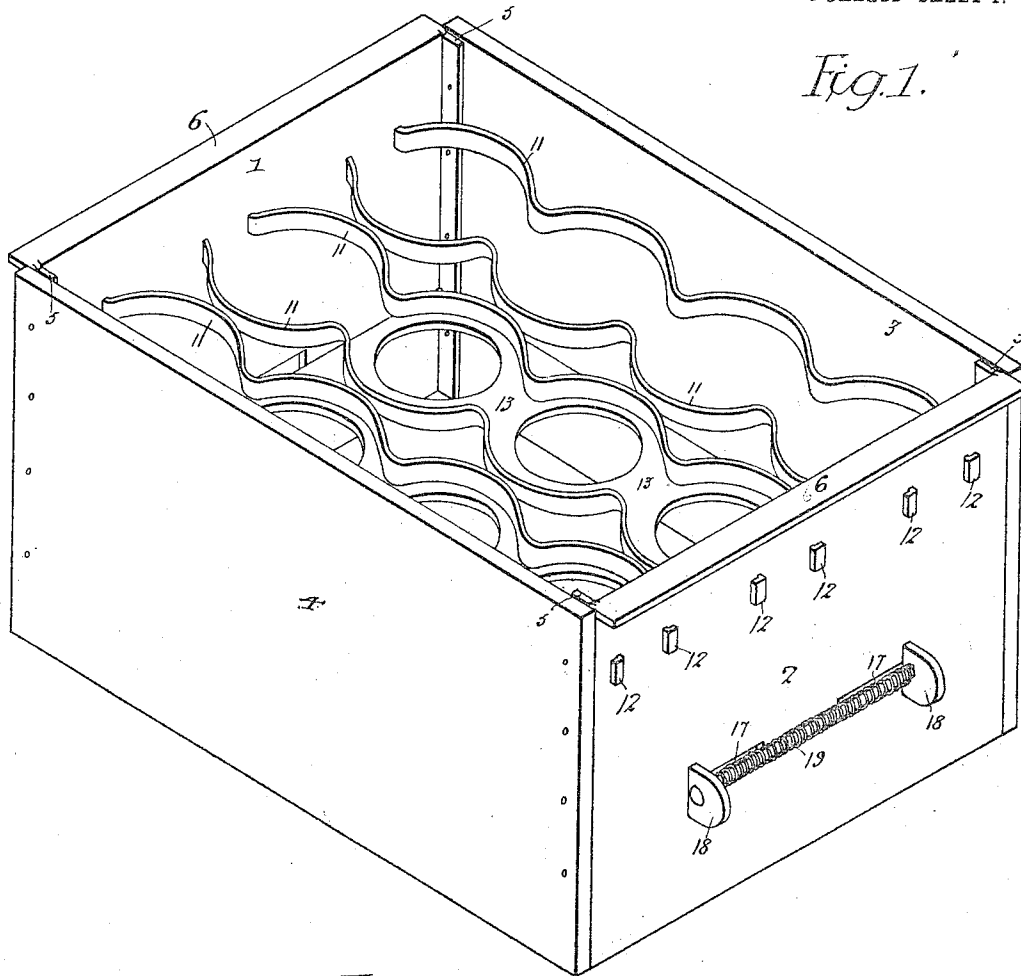
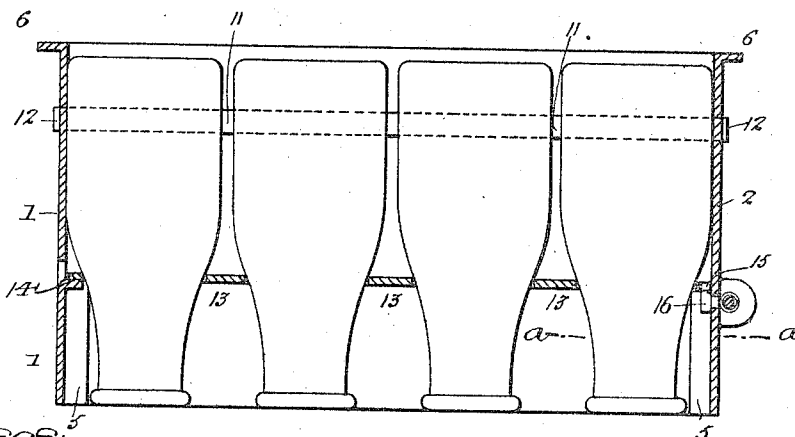


Fig. 1.

Fig. 2.



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Inventor:
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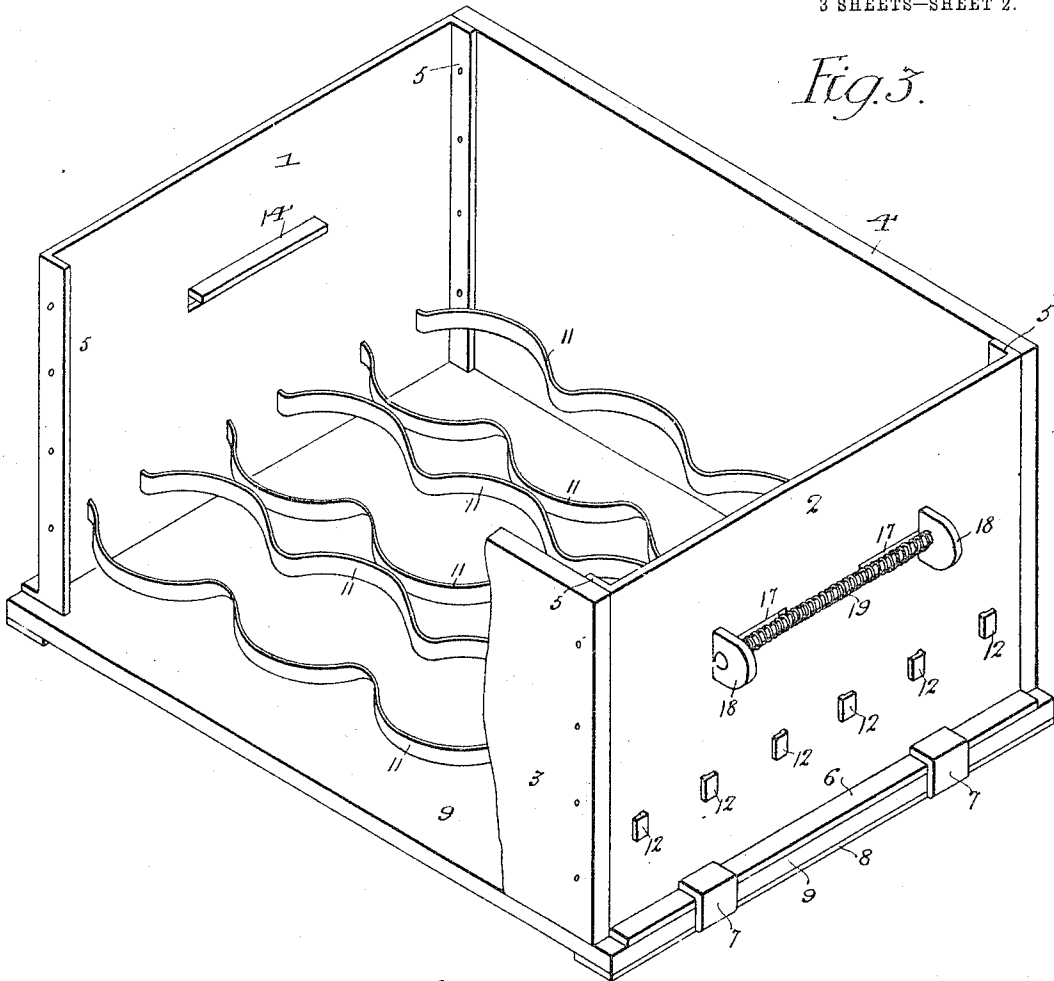
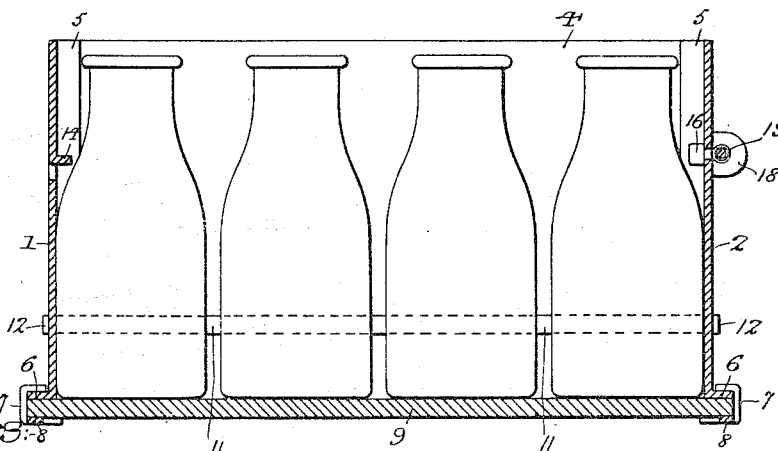


Fig. 3.

Fig. 4.



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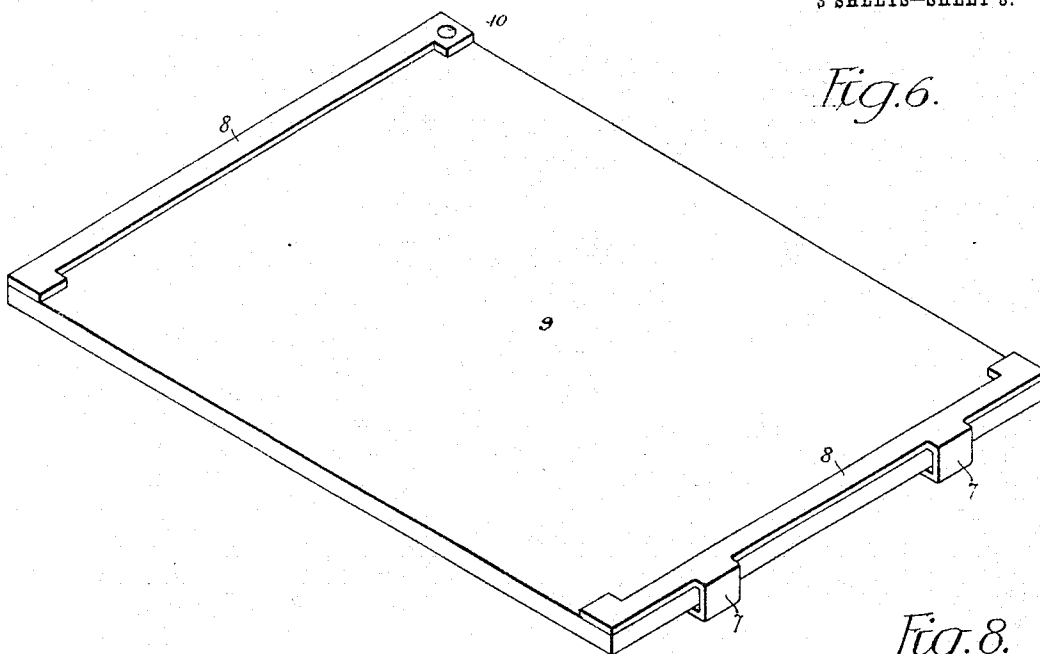


Fig. 6.

Fig. 8.

Fig. 5.

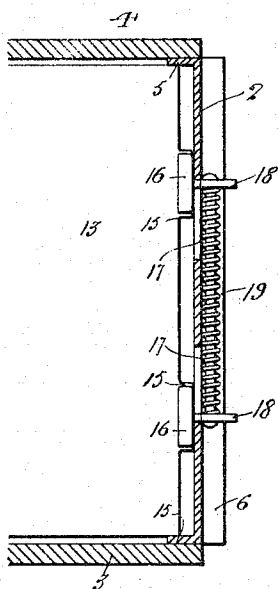
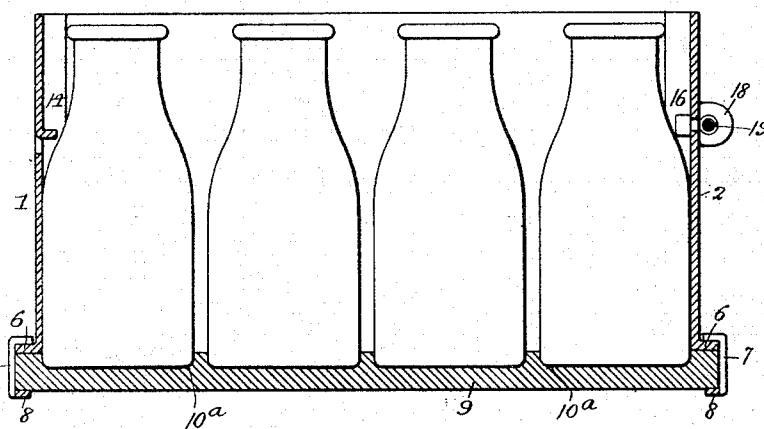
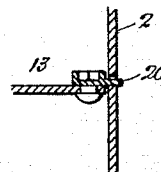


Fig. 7.



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UNITED STATES PATENT OFFICE.

JOHN C. MILLER, OF CANTON, OHIO.

BOTTLE-CASE.

1,038,626.

Specification of Letters Patent.

Patented Sept. 17, 1912.

Application filed May 21, 1906. Serial No. 317,917.

To all whom it may concern:

Be it known that I, JOHN C. MILLER, a citizen of the United States, and a resident of Canton, Ohio, have invented certain Improvements in Bottle-Cases, of which the following is a specification.

My invention consists of a bottle case or rack so constructed that it can be used either for supporting the bottles in an inverted position while they are being washed, or as a case in which the filled bottles can be vended, stored, or transported from place to place.

In the accompanying drawings:—Figure 1 is a perspective view of the bottle case or rack as used for supporting the bottles in an inverted position in the washing machine, Fig. 2 is a longitudinal section of the same with the bottles mounted therein, Fig. 3 is a perspective view of the case as used for storing or transporting the filled bottles, Fig. 4 is a longitudinal section of the same with the bottles therein, Fig. 5 is a transverse section of part of the case on the line, *a—*a**, Fig. 2, Fig. 6 is a perspective view of one of the elements of the case detached from the body of the same, and Figs. 7 and 8 are views illustrating modifications of certain features of my invention.

The case comprises end portions 1 and 2, and side portions 3 and 4, the end portions being by preference constructed of metal with end flanges 5, to which the wooden sides of the case can be secured in any appropriate manner.

Each of the end portions 1 and 2 of the case is also provided with a flange 6, which is intended to be engaged by clips 7 formed on a plate 8 which is secured to one end of the bottom board 9, so that the latter can be readily slid into position in respect to the end and side portions of the case, or can be readily removed when desired, it being understood that this bottom board is used only when the case is intended for the storage or transportation of the filled bottles and is removed when the case is intended simply to support the bottles in an inverted position during the washing operation. The plates 8 also serve to armor the end portions of the bottom board and prevent injury thereto.

The bottom board 9 can be temporarily secured in position on the case in any available manner, as for instance, by means of a pin, engaging one of the sides of the case and passing through a hole 10, in one of

the end plates 8 of the bottom support, the release of the bottom board from the case being effected by the removal of such pin, or the bottom board may have recesses 10^a for the reception of the bottoms of the bottles, as shown in Fig. 7, so that it cannot be removed when any one of the bottles is in place.

Within the case is a rack composed of a series of bent or corrugated bars 11 whose ends pass through openings in the ends 1 and 2 of the case and are riveted down on the outer sides of the same, as shown for instance at 12, in Figs. 1 and 3, said bars being so bent and so located as to provide for the reception and retention of as many bottles as the case is designed to accommodate, the case shown in the drawing being intended for the reception of one dozen bottles arranged in three rows of four each. Also located within the case is a second rack 13 having therein an opening for each of the bottles, and when the case is used in the inverted position shown in Figs. 1 and 2, this rack engages the shouldered portions of the bottles, and thus serves to support the latter in the inverted position, while they are being carried through the washing machine and subjected to the action of the washing devices forming part of the said machine. When the rack is thus used, it bears at one end upon a fixed flange 14 projecting inwardly from the end plate 1 of the case, while at the opposite end of the plate, projecting lugs 15 thereon are supported by means of bolts 16, slidably mounted in slots 17 formed in the end plate 2, said bolts having projecting thumb pieces 18 between which is interposed a coiled spring 19 which tends to project the bolts 16 to their fullest extent, whereby they serve as supports for the lugs 15 of the plate 13 as shown in Fig. 5.

When the bolts 16 are drawn toward each other by pressure exerted upon the finger pieces 18, the lugs 15 are relieved from the control of said bolts 16, hence the plate can be lifted from the case, since its use is not required when said case serves as a means for storing or transporting the filled bottles, the latter in this case resting upon the bottom board 9 of the case, and engaging the rack formed by the bars 11, as shown in Fig. 4.

When the end portion 1 of the case is a casting, the flange 14 may be cast thereon, and when said end portion is of sheet metal

the flange may be struck up therefrom, this construction being the one shown in the drawing.

Instead of mounting the rack-retaining bolts upon the body of the case they may be mounted upon the rack, and engage with the end portion of the body, for instance, in Fig. 8 I have shown a bolt 20 rotatably mounted upon the rack and capable of being turned into and out of engagement with a slot in the end 2 of the case. In either construction, one or a plurality of bolts may be used as desired.

Having thus described my invention, I claim and desire to secure by Letters Patent:—

1. In a bottle-holding and transporting device, the combination of a body portion, comprising rigidly connected side walls, devices fixedly carried by said side walls engaging the walls of the bottles for holding and spacing them within said body portion, a removable bottom for one open end of the body portion on which bottles rest during transportation thereof, means for detachably connecting said bottom to said body portion, a removable rack arranged at or near the opposite open end of the body portion and adapted to engage the shouldered portions of the bottles for supporting them in inverted position during the washing operation thereof, and means for detachably connecting said rack to the body portion.

2. In a bottle-holding and transporting device, the combination of a body portion comprising side and end walls, two opposite walls of which are provided with flanges, devices fixedly carried by the body portion engaging the walls of the bottles for holding and spacing them therein, a removable bottom for one open side of the body portion on which bottles rest during transportation thereof, means coöperating with the flanges of the walls of said body portion for positioning and detachably connecting said bottom to said body portion, a removable rack arranged at or near the opposite open side of the body portion and adapted to engage the shouldered portion of the bottles for supporting them in inverted position during the washing operation thereof, and means for detachably connecting the said rack to said body portion.

3. A bottle case for holding bottles in either an upright or inverted position, com-

prising a body portion having a slot in one side wall thereof, a rack fixed in the body portion and arranged near one open end thereof, a second rack arranged near the other open end of the body portion and adapted to engage the shouldered portions of bottles and support them in inverted position during the washing thereof, the said second rack being provided with a projection, a bottom board for the open end of the body portion adjacent to said fixed rack, means for temporarily retaining said bottom board in position to serve as a support for the bottles when in upright position for transporting purposes, and means, including a slidable locking and supporting bolt movable in said slot and engaging said projection for removably supporting the said second rack in the body portion.

4. A bottle case having a slotted body portion, a rigid perforated internal bottle-engaging rack with a projection thereon at one side edge, means for supporting the said rack along one of its other side edges, and a sliding locking and supporting bolt guided in the slotted portion of the body of the case and movable into and out of engagement with the projection on the rack.

5. A bottle case having a slotted body portion, an internal bottle-engaging rack having projections thereon at one side, means for supporting one of the other sides of the rack in the case, bolts slidably mounted in the slotted portion of the body of the case, and springs for projecting said bolts into locking engagement with the projections on the bottle-engaging rack.

6. In a bottle-holding and transporting device, the combination of a casing, a removable bottom on which the bottles rest during transportation, the said bottom being formed with recesses in which the bottles rest and operate to hold the said bottom in position with respect to the case, and a removable rack arranged to engage the shouldered portions of the bottles when inverted for supporting them in the case during the washing operation.

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

JOHN C. MILLER.

Witnesses:

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A. H. ELLIOTT.