

W. C. KRAUSE & H. C. DORN.
BOTTLE CASE OR CRATE.
APPLICATION FILED MAR. 16, 1908.

933,184.

Patented Sept. 7, 1909.

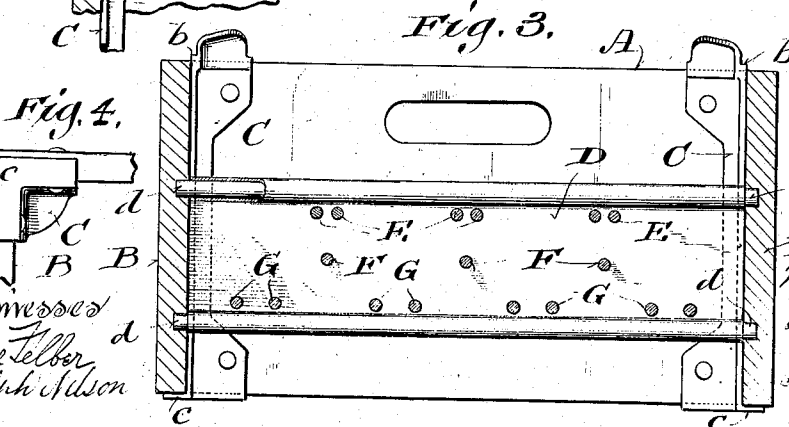
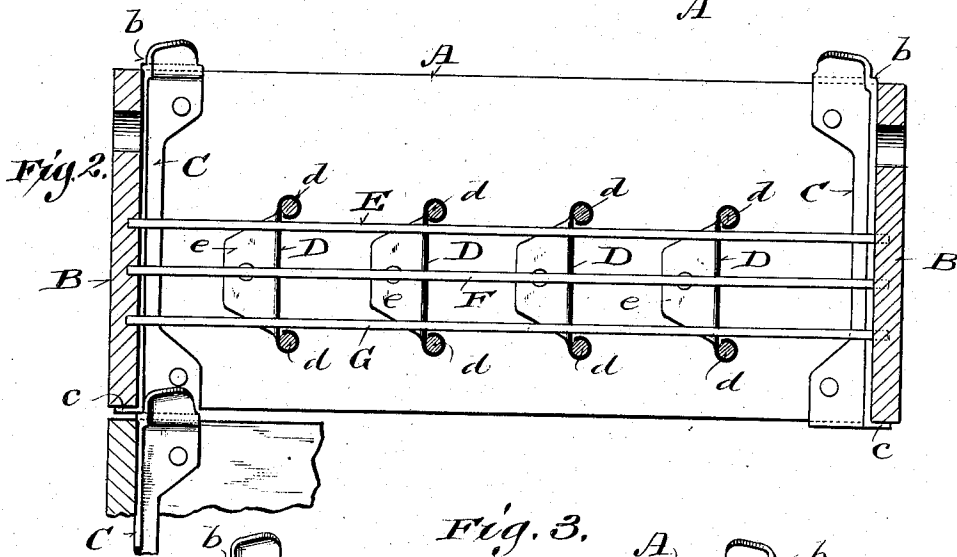
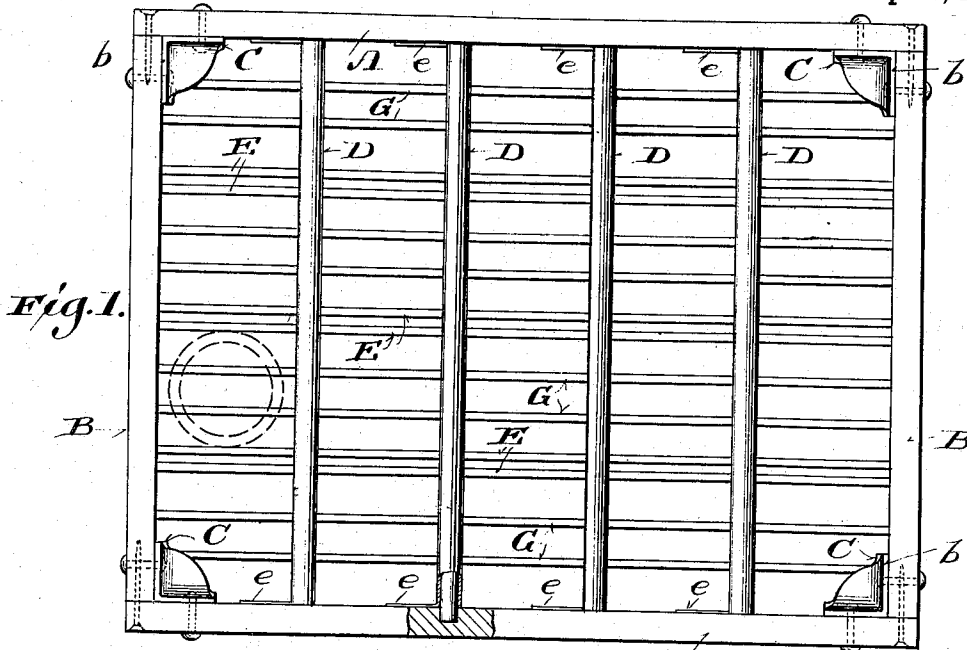


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM C. KRAUSE AND HENRY C. DORN, OF MILWAUKEE, WISCONSIN.

BOTTLE CASE OR CRATE.

933,184.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed March 16, 1908. Serial No. 421,511.

To all whom it may concern:

Be it known that we, WILLIAM C. KRAUSE and HENRY C. DORN, citizens of the United States, and residents of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Bottle Cases or Crates; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed; its object being to strengthen and provide for secure piling of open top and bottom cases or crates employed for holding milk-bottles, filled or otherwise.

Figure 1 of the drawings represents a plan view of a bottle case or crate in accordance with our invention; Fig. 2, a vertical longitudinal section of the same; Fig. 3, a transverse section of said case or crate, and Fig. 4, a plan view of a corner fragment of same inverted.

Referring by letter to the drawings, A indicates the sides, and B the ends of a rectangular wooden frame open at the top and bottom, said sides and ends being nailed together. To strengthen the frame and to provide for nesting of the case or crate with others of similar make and dimensions, we employ corner-irons C fastened inside of said frame to the sides and ends of same by rivets or other suitable means. Each corner-iron is a single piece casting and extends the entire depth of the frame to which it is connected and projects upward from said frame. The upper end of the iron is offset and preferably hooded as herein shown, the offsetting of said end resulting in an outer right-angle shoulder *b* that comes flush with the upper edge of the frame or slightly above the same. The lower end of each corner-iron is a right-angle flange *c* that underlies the lower edge of the frame, and in piling cases or crates the flanges of the corner-irons of one rest upon the shoulders of the corner-irons of another. This contact of metal with metal is an advantageous feature, as thereby the wood of the cases or crates does not become worn or splintered due to rough handling in piling of said cases or crates, and the offsets of the corner-irons of one case or crate extend close within the confines of the one next

above, whereby accurate piling is a result and the cases or crates in a tier are held one by another against lateral or longitudinal movement.

The bottle-cells of the case or crate herein shown are formed by the frame aforesaid, a series of partitions D at regularly recurring intervals in said frame, and wires E, F, G, that extend through the partitions at different elevations. The partitions are sheet-metal preferably galvanized, and the wires are also preferably galvanized. The upper and lower edges of each partition are preferably curled, and filling rods *d*, preferably of wood, are employed in the curls to keep the same in the original shape. The ends of the wires and bead-filling rods engage sockets provided in the ends and sides of the frame, and the partitions are provided with flanges *e* riveted to said frame. The partitions impart rigidity to the wires that extend through the same, and the case or crate as a whole is much stiffer, stronger and durable than those of common knowledge for the same purpose.

In practice, the case or crate frames are preferably of a standard length and width, the number and arrangement of the partitions and wires therein being variable according to the sizes of bottles for which the cells are designed.

We claim:

An open top and bottom angular bottle-case or crate frame, and corner-irons within the same having inwardly offset upper projections, right-angle horizontal shoulders at the base of the projections adjacent to upper edges of the frame, with which they are approximately flush, and lower outwardly extending horizontal right-angle flanges that lap adjacent lower edges of said frame; said shoulders being opposed to the lower corner-iron flanges of a registering similar case or crate piled upon the one aforesaid and into which said corner-iron projections of the lower box or crate extend.

In testimony that we claim the foregoing we have hereunto set our hands at Milwaukee in the county of Milwaukee and State of Wisconsin in the presence of two witnesses.

WM. C. KRAUSE.
HENRY C. DORN.

Witnesses:

HERMAN F. KRAUSE, Sr.,
HERMAN F. KRAUSE, Jr.,