G. B. DOUD.

CABINET.

APPLICATION FILED NOV. 20, 1912.

1,098,787.

Patented June 2, 1914.

2 SHEETS—SHEET 1.

Fig. 1.

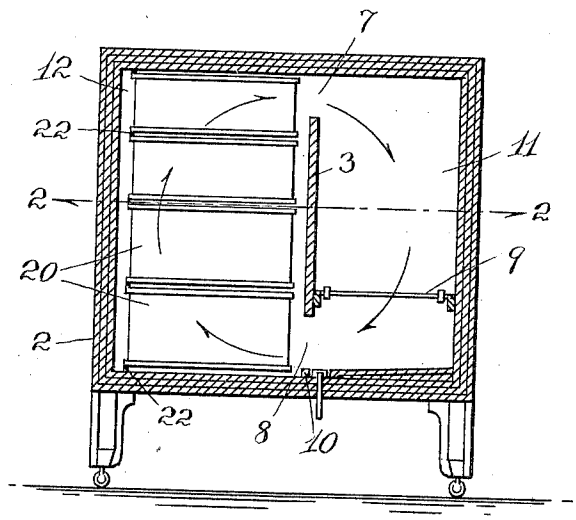
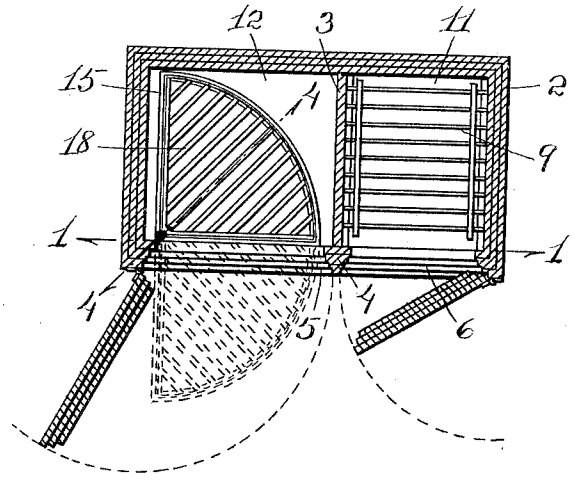


Fig. 2.



Inventor

Witnesses

Stuart Hilder.

Francis W. Anderson

Giles B. Doud.

By E. W. Anderson & Son

his Attorneys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

G. B. DOUD.

CABINET.

APPLICATION FILED NOV. 20, 1912.

1,098,787.

Patented June 2, 1914.

2 SHEETS—SHEET 2.

Fig. 3.

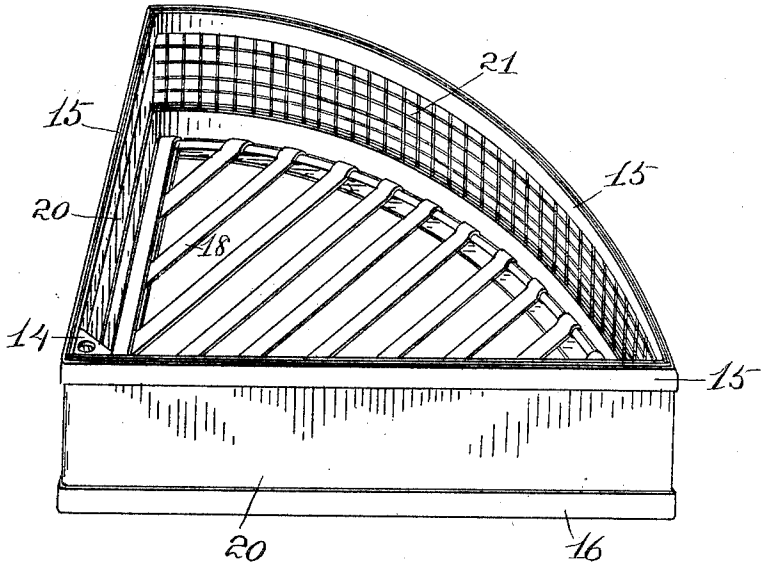
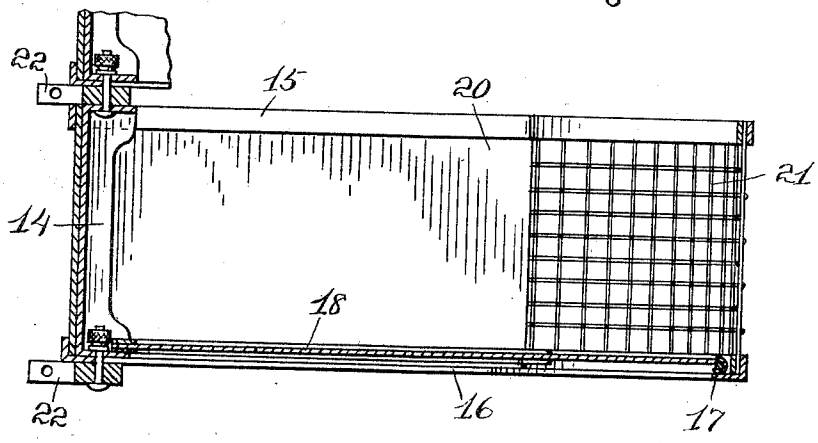


Fig. 4.



Witnesses

Stuart Hilder.

Frances W. Anderson.

Inventor

Giles B. Doud

By E. W. Anderson & Son

Attorneys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GILES B. DOUD, OF WINONA, MINNESOTA.

CABINET.

1,098,787. Specification of Letters Patent. Patented June 2, 1914.

Application filed November 20, 1912. Serial No. 732,477.

To all whom it may concern:

Be it known that I, GILES B. DOUD, a citizen of the United States, resident of Winona, in the county of Winona and State of Minnesota, have made a certain new and useful Invention in Cabinets; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a vertical section of a refrigerator on the line 1—1, Fig. 2, showing my invention as applied. Fig. 2 is a section on the line 2—2, Fig. 1. Fig. 3 is a detail perspective view of one of the trays. Fig. 4 is a detail sectional view of the same.

The invention relates to cabinets or casings, and it consists in the novel construction and combinations of parts, as hereinafter set forth.

The object of the invention is to provide, in a cabinet or casing, an improved tray and means for pivotally supporting the same.

In the accompanying drawings, illustrating the invention as applied to a refrigerator, 2, indicates the refrigerator box or casing, having located therein the provision chamber and the ice chamber, side by side, and partially separated by a partition 3, extending from the rear inside wall to the front post 4 between the main doorway 5 and the doorway 6 of the ice chamber. At the upper end of the partition an interval or passage 7 is provided, and a passage 8 is provided at its lower end, these passages affording ample communication between the ice chamber 11 and the provision chamber 12, and being located in such wise as to facilitate the circulation of the air inside the chamber.

The removable rack 9 upon which the ice is placed in the ice chamber, is seated upon ledges, one near the bottom of the partition 3 and the other opposite, on the wall of the ice chamber. Below the ice rack a shelving bottom is provided, sloping toward a recess or channel adjacent to a rise or rib 10, under the partition, said recess communicating with the drain opening.

In the chamber 12 are located quadrant-form swinging shelves or trays, one above another, these trays having substantially the following characteristics: Each tray consists of a frame having an angular metallic corner post 14, to which are rigidly secured an upper quadrant-form bar 15 and a lower quadrant-form bar 16, the latter having an inwardly-turned flange or ledge 17, on which a removable quadrant-form rack 18 is designed to rest. And secured to these bars are straight-side or radial walls 20 of solid or sheet form, being usually of galvanized sheet iron, and the curved wall 21, of galvanized wire mesh or perforated sheet metal.

To the casing, at the doorway of chamber 12, and preferably to the rear of the door jamb and on the side to which the door is hinged, are secured at intervals horizontal hinge bearings or brackets 22 for the reception of removable hinge pins, the ends of which extend through bearing apertures in the said brackets and in the horizontal tops and horizontal bottoms of the corner posts. These ends may be provided with thumb nuts, or the pins may be headed thumb screws, the object being to make them easily removable, so that the trays may be readily taken out for cleansing. The trays are strongly braced, as their corner posts are pivoted at both top and bottom, it being designed that, notwithstanding the weight of the articles upon the racks, they shall remain firm, and have true horizontal motion. The door jambs are usually of shouldered or stepped form, and the doors are hinged to the exterior lateral portions thereof, so that the doorways will be clear when the doors are open.

When the doors of the refrigerator are closed, the circulation of air is downward through the lateral ice chamber, and the lower passage under the partition, and upward through the racks and wire mesh walls of the trays, and through the upper passage back into the ice chamber. When the door of the provision chamber is open, the front sheet iron walls of the trays provide a substantial guard or obstruction which remains in position in the doorway and is designed to prevent in great measure the movement of outside air into the chamber. And when one of the trays is swung outward for access to the provisions therein, the rear sheet iron wall of this tray comes into position, taking the place of the front wall, and affording a similar barrier against the outside air.

The trays are severally movable, and

should one or more of them be left in more or less open position, such trays will be closed into the chamber by the shutting of the door, which will engage the open trays and push them back into normal closed position, in which their front walls are substantially in contact with the rear wall of the door.

Having described the invention, what I claim and desire to secure by Letters Patent is:

In a casing, upper and lower quadrant-form trays, having each a metallic frame comprising an angular corner post, upper and lower quadrant-form bars secured to said post, the lower of said bars having an inturned flange, radial side walls secured to said bars, an arcuate perforated side wall secured to said bars, said post having a horizontal perforated top and a horizontal perforated bottom, and means for pivotally supporting the trays, including a horizontal perforated bracket between and having bracing engagement with the horizontal top and bottom of adjacent corner posts, and hinge pins each engaging the perforations of said bracket and of the adjacent top and bottom of overlying posts.

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

GILES B. DOUD.

Witnesses:

HELEN E. WIER,

C. F. WITT.

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