

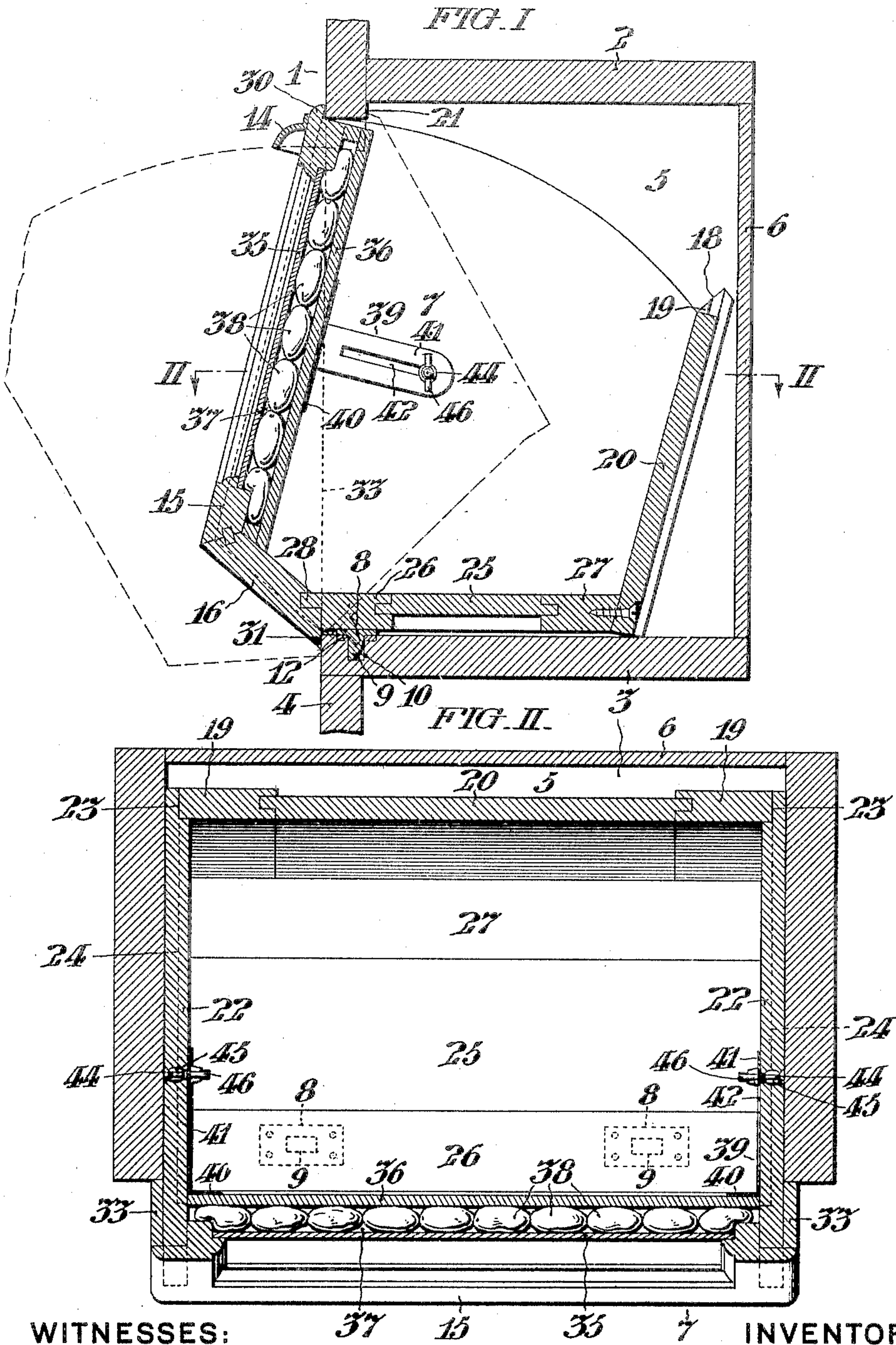
No. 794,062.

PATENTED JULY 4, 1905.

E. J. WALKER.

BIN.

APPLICATION FILED JUNE 19, 1903.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWIN J. WALKER, OF PHILADELPHIA, PENNSYLVANIA.

BIN.

SPECIFICATION forming part of Letters Patent No. 794,062, dated July 4, 1905.

Application filed June 19, 1903. Serial No. 162,181.

To all whom it may concern:

Be it known that I, EDWIN J. WALKER, of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Bins, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to pivoted or tilting bins mounted in a casing structure so as to be pivoted at the front edge thereof in removable relation therewith, and certain of my improvements hereinafter described relate particularly to bins having projecting counterbalanced fronts provided with glazed openings for the display of merchandise in a limited space or compartment formed by a partition within the bin.

One object of my invention is to provide means whereby said display-space between the glazed opening and the partition may be varied to accommodate articles of different dimensions. As hereinafter described, such means comprise adjustable angle-brackets arranged to support said partition and having slotted flanges extending parallel with the side walls of the bin, engaging bolts seated in said side walls provided with means preventing their rotation, and nuts which adjustably secure said brackets.

Another object of my invention is to provide a bin with walls consisting of central panels whose edges are engaged in grooves in marginal frame members which are rigidly connected together, so as to permit expansion and contraction of said walls without opening crevices between them, and, as hereinafter described, I find it convenient to vertically extend the side frames of the panel forming the back wall of the bin, so that they engage the front of the casing to limit the tilting movement of the bin and normally prevent its removal. The counterbalance-front of the bin being formed of upper and lower panels which project forwardly from the casing in obtuse-angular relation, my improvements provide filling-pieces which extend flush with the side edges of said panels and form lateral abutments for contact with the vertical plane face of the casing in alinement with the top and bottom edges of said front panels, which over-

lap the edges of the chamber-opening, in contact with the vertical plane face of said casing when the bin is closed.

My invention also comprehends the various novel features of construction and arrangement hereinafter more definitely specified and claimed.

My invention being adapted for use in shops of the class where small articles of merchandise must be kept in bulk in such manner as to be easily accessible to the salesman, I have shown an embodiment of my invention comprising a casing which may extend for some length along a shop-wall and consisting of horizontal shelves and vertical partitions forming chambers in which the bins may be inserted at any desired intervals.

In the drawings, Figure I is a central vertical sectional view of a convenient embodiment of my invention. Fig. II is a plan sectional view taken on the line II II in Fig. I.

In said figures, 1 is a bin-casing conveniently formed of upper and lower shelves 2 and 3, connected at the front by upright members 4. The bin-chamber 5 thus formed may be closed at the back by the adjoining wall of the shop or by a thin partition 6. The bin 7 is mounted in said chamber 5 to oscillate upon its pivotal members 8, whose projecting lugs 9 engage the corresponding recesses 10 in the pivotal plates 12, which latter are mounted at the front edge of the casing in the shelf 3. Said lugs 9 serve to prevent the accidental displacement of the bin during its tilting movement. Said bin 7 may be conveniently tilted by means of the handle 14, mounted upon its front wall, which latter is formed of the panels 15 and 16, arranged in obtuse angular relation. A substantial portion of the bin contents are thus disposed forward of its axis of oscillation on said pivotal plates 12 and serve to partially counterbalance the bin, so that when released it shall close against the casing without shock or jar. The tilting movement of the bin is conveniently limited and its accidental removal prevented by the upwardly-projecting ends 18 of the side frame members 19 of the panel 20, forming the back wall of the bin, which projections 18 encounter the corner 21 of the casing member 4 when

the bin is tilted forward. It may be noticed that when said bin 7 is in its forward position (indicated by dash lines in Fig. I) the lugs 9 are almost withdrawn from the pivotal plates 12, and although their slight engagement suffices to prevent the accidental displacement of the bin the latter may be removed from the chamber 5 by simply lifting it until said lugs 9 are clear of said plates 12. Referring to Fig. II, it may be noted that the side walls 22 are rabbeted at 23 to receive the side edges of said frame members 19 of the back wall, and said walls 22 are also rabbeted, as indicated at 24, to receive the side edges of the central panel 25 and marginal frame members 26 and 27, forming the bottom wall. The frame member 26 is also provided with the tongue 28, which fits in a corresponding groove in the lower panel 16 of the counterbalance front, so that contraction and expansion of said panels will not open crevices between the adjoining walls.

As shown in Fig. I, the upper and lower panels 15 and 16 of the counterbalance front wall are respectively provided with top and bottom edges 30 and 31, which overlap the edge of the chamber-opening in the casing for contact with its vertical plane face when the bin is closed. In order to form lateral shoulders or abutments in alinement with said edges 30 and 31 for contact with said plane face of the casing, I provide filling-pieces 33, which are triangular in shape, as indicated by the dotted lines in Fig. I, and extend flush with the side edges of said panels 15 and 16, which latter overlap the side walls 22, as shown in Fig. II.

The upper panel 15 of the projecting counterbalance front of the bin being provided with a glass panel 35, the partition 36 (which is loosely mounted within the bin behind said panel) forms a limited space or compartment 37 for the display of articles 38. Said partition 36 is adjustably supported by the brackets 39, whose flanges 40 extend parallel therewith. The flanges 41 of said brackets are provided with slots 42 and extend parallel with the side walls 22 of the bin in engagement with the bolts 44, which latter are seated in said side walls and provided with longitudinal ribs 45, which prevent their rotation. Said brackets 39 being secured in adjustable relation with said bolts 44 by means of the wing-nuts 46, which are in screw-threaded engagement therewith, it is to be understood that said display space or compartment 37 may be varied to accommodate articles of different dimensions by the adjustment of said brackets 39 and partition 36 toward or away from the glass panel 35, said partition being secured in any desired position of adjustment by the set of said nuts 46.

I do not desire to limit myself to the precise embodiment of my invention, which I have shown and described, as it is obvious that

various modifications may be made therein without departing from the essential features of my invention.

I claim—

1. The combination with a casing comprising a bin-chamber; of a bin tiltably mounted in said chamber, having its axis of oscillation at the front edge of said casing; the bottom and rear walls of said bin each comprising a panel having marginal frame members of greater thickness than said panel; the pivotal connections for said bin being secured upon the front frame member of its bottom panel; the side frame members of the back panel projecting upwardly to limit the tilting movement of the bin by encountering the front of the casing; a counterbalance front for said bin projecting forward of said axis; a glazed opening in the front of said bin; a partition behind said glazed opening; means to adjust said partition toward and away from said opening, comprising angle-brackets having slotted flanges extending parallel with the side walls of said bin; bolts entered through said bracket-slots and seated in said side walls, provided with means preventing their rotation; and, nuts in screw-threaded engagement with said bolts within said bin, substantially as set forth.

2. The combination with a casing comprising a bin-chamber; of a bin tiltably mounted in said chamber, having its axis of oscillation at the front edge of said casing; the rear wall of said bin comprising a panel having marginal frame members of greater thickness than said panel; the side frame members of said panel projecting upwardly to limit the tilting movement of the bin by encountering the front of the casing; a counterbalance front for said bin projecting forward of said axis; a glazed opening in the front of said bin; a partition behind said glazed opening; and, means to adjust said partition toward and away from said opening; comprising brackets having slotted flanges extending parallel with the side walls of said bin; bolts entered through said bracket-slots and seated in said side walls, provided with means preventing their rotation; and, nuts in screw-threaded engagement with said bolts within said bin, substantially as set forth.

3. The combination with a tiltable bin comprising a glazed opening in its front; of a partition behind said glazed opening within said bin; means to secure said partition in adjustable relation to said glazed opening, comprising angle-brackets arranged to support said partition; and, means to adjustably secure said brackets to the side walls of said bin, comprising bolts seated in said side walls, provided with means preventing their rotation; and, nuts in screw-threaded engagement with said bolts within said bin, substantially as set forth.

4. The combination with a casing comprising a bin-chamber; of a bin tiltably mounted

in said chamber, having its axis of oscillation at the front edge of said casing; a counterbalance front for said bin projecting forward of said axis; a glazed opening in said front; 5 a partition behind said glazed opening; and, means to adjust said partition, toward and away from said opening, comprising angle-brackets and means to adjustably secure said brackets to the side walls of said bin, substantially as set forth.

5. The combination with a tiltable bin comprising a glazed opening in its front; of a partition behind said glazed opening within said bin; means to secure said partition in adjustable relation to said glazed opening, comprising angle-brackets arranged to support said partition, and, means to adjustably secure said brackets to the side walls of said bin, substantially as set forth.

6. The combination with a tiltable bin comprising a glazed opening in its front; of a partition behind said glazed opening within said bin; means to vary the space inclosed between said partition and said glazed opening, comprising slotted brackets supporting said partition; and, means entered through said brackets arranged to adjustably engage them with the side walls of said bin, substantially as set forth.

7. The combination with a casing comprising a bin-chamber; of a bin tiltable mounted in said chamber, having its axis at the front edge of said casing; and, the bottom and rear walls of said bin comprising panels having marginal frame members thicker than said panels; the pivotal members of said bin being secured upon the front frame member of its bottom panel, substantially as set forth.

8. The combination with a casing comprising a bin-chamber; of a bin tiltable mounted in said chamber, having pivotal members detachably engaging said casing at the front edge thereof; said bin having a bottom wall and a

back wall each comprising a panel having marginal frame members thicker than the panel; 45 and, said pivotal members being secured to the front frame member of said bottom wall, substantially as set forth.

9. The combination with a casing comprising a bin-chamber; of a bin tiltable mounted in said chamber, having its axis of oscillation at the front edge of said casing; a counterbalance front for said bin projecting forward of said axis and overlapping the chamber-opening in said casing; and, lateral abutments on said bin, for contact with the front of said casing, formed by filling-pieces secured to the side walls of the bin in alinement with the overlapping top and bottom edges of said front wall and extending flush with the side edges 60 of said front panels, substantially as set forth.

10. The combination with a casing comprising a bin-chamber; of a bin tiltable mounted in said chamber, having its axis of oscillation at the front edge of said casing; a counterbalance front for said bin projecting forward of said axis and overlapping the chamber-opening in said casing; and, lateral abutments on said bin for contact with the front of said casing formed by filling-pieces secured to the side walls of the bin in alinement with the overlapping top and bottom edges of said front wall and extending flush with the side edges of said front panels; a glazed opening in the upper panel of said projecting front; and, a partition adjustably mounted in said bin forming a display-compartment behind said glazed opening, substantially as set forth.

In testimony whereof I have hereunto signed my name, at Philadelphia, Pennsylvania, this 18th day of June, 1903.

EDWIN J. WALKER.

Witnesses:

D. W. FAGLEY,
HAROLD G. KNIGHT.