

No. 754,523.

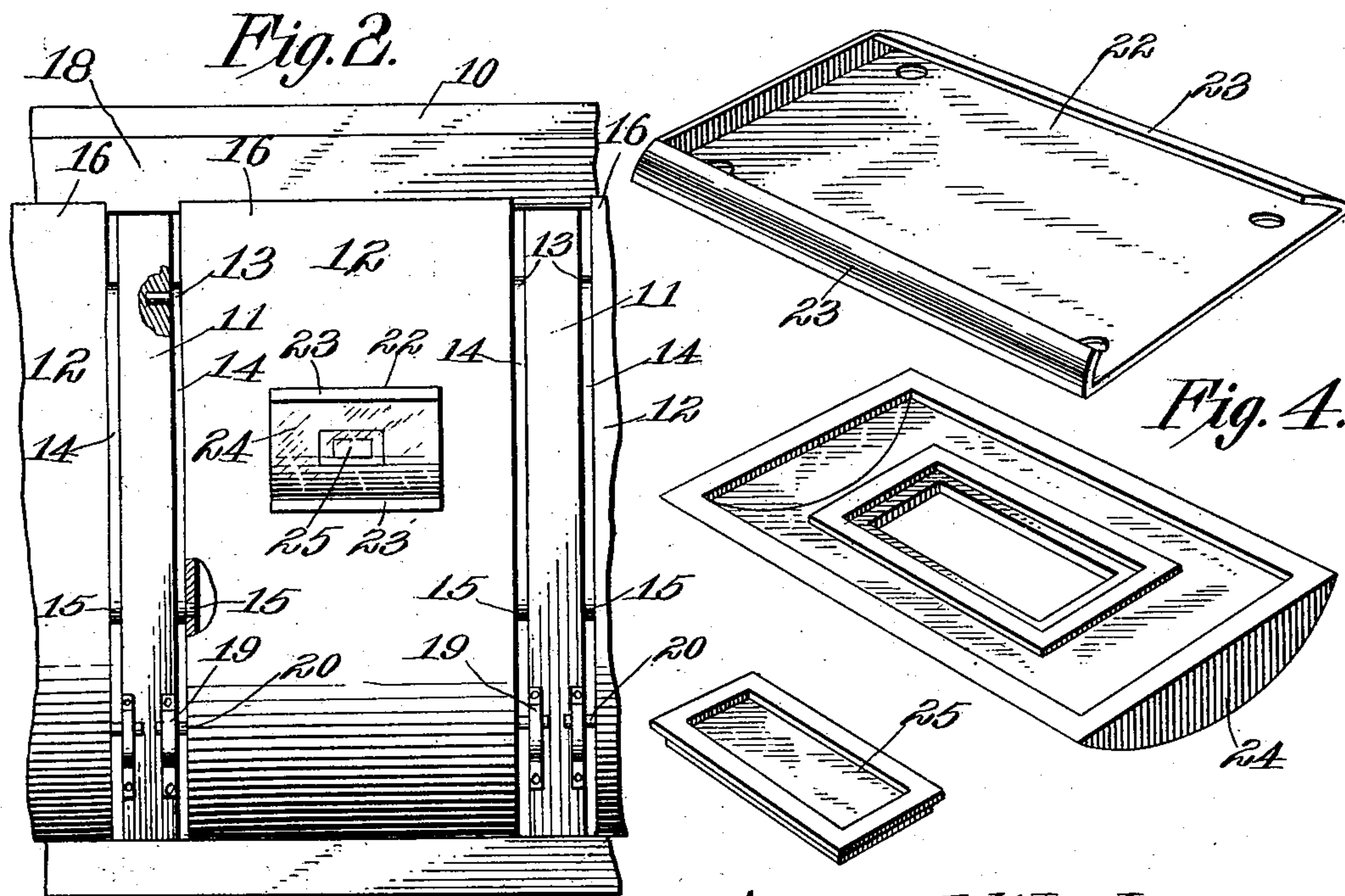
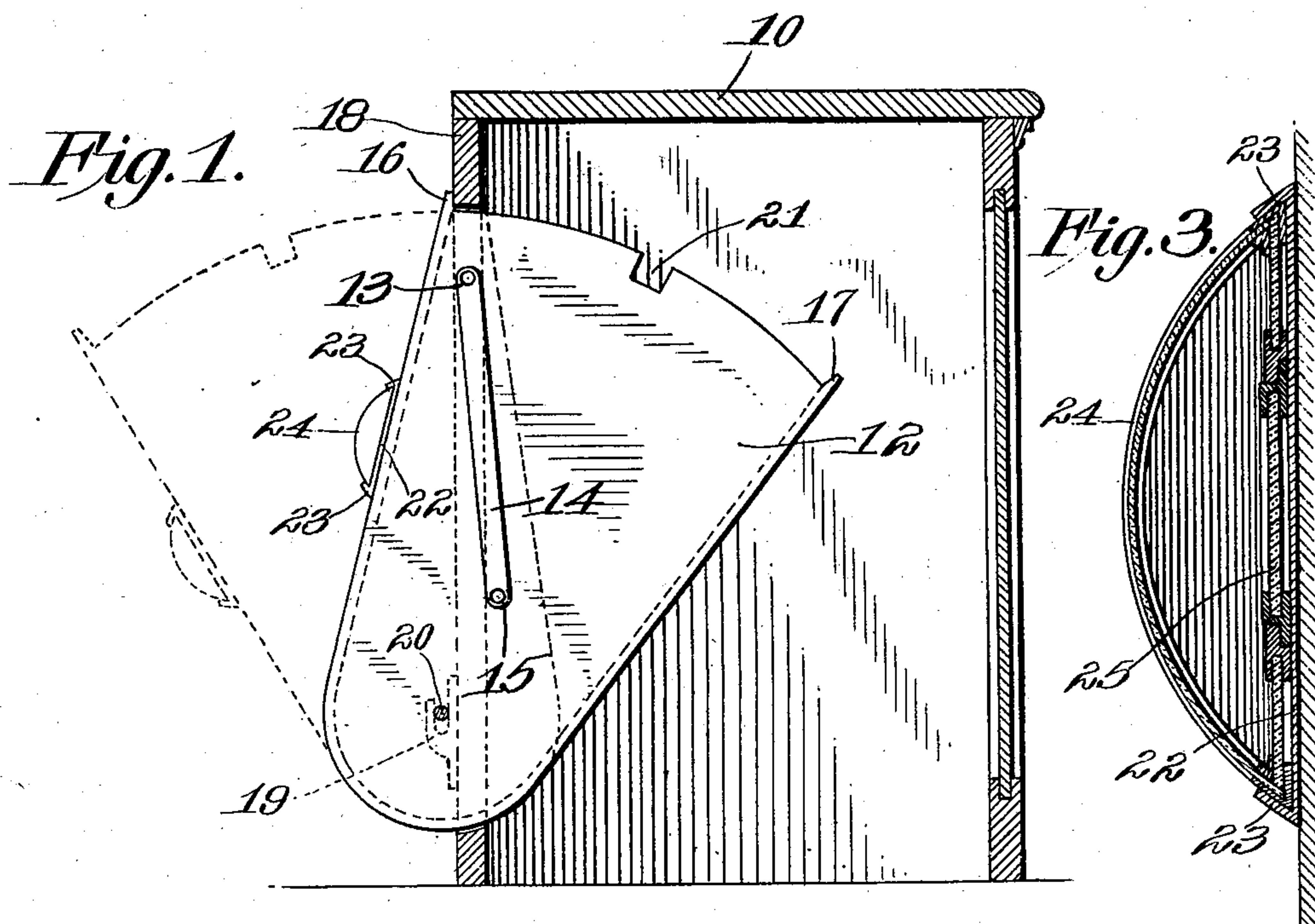
PATENTED MAR. 15, 1904.

A. J. WEST.

TILTING BIN AND SAMPLE DISPLAY DEVICE.

APPLICATION FILED DEC. 7, 1903.

NO MODEL.



Witnesses
E. F. Stewart
C. H. Woodward.

Arnold J. West, Inventor.
by C. A. Snow & Co. Attorneys

UNITED STATES PATENT OFFICE.

ARNOLD J. WEST, OF ABERDEEN, WASHINGTON.

TILTING BIN AND SAMPLE-DISPLAY DEVICE.

SPECIFICATION forming part of Letters Patent No. 754,523, dated March 15, 1904.

Application filed December 7, 1903. Serial No. 184,153. (No model.)

To all whom it may concern:

Be it known that I, ARNOLD J. WEST, a citizen of the United States, residing at Aberdeen, in the county of Chehalis and State of Washington, have invented a new and useful Tilting Bin and Sample-Display Device, of which the following is a specification.

This invention relates to the storage-bins employed in stores and similar localities for the storage of merchandise in convenient position for the salesman, and has for its object to simplify and improve devices of this character and increase the convenience and ease of operation.

The invention consists in certain novel features of construction, as hereinafter shown and described, and specified in the claims.

In the drawings illustrative of the invention, in which corresponding parts are denoted by like designating characters, Figure 1 is a transverse sectional elevation, and Fig. 2 is a front elevation, of a portion of a counter with the improvement applied. Fig. 3 is a cross-section, enlarged, of the sample-receptacle. Fig. 4 represents the parts forming the sample-receptacle disconnected and enlarged.

The improved device comprises generally an inclosing casing forming a chamber for the reception of one or more storage bins or receptacles for the merchandise and movably disposed to support the goods in convenient position for the salesman, each bin being provided with a detachable transparent receptacle for a sample of the goods stored within the bin. The casing portion may be in the form of a counter, or it may be constructed to form part of the shelving or arranged in any other required manner, and I do not, therefore, desire to be limited in any manner to any specific form for this portion of the apparatus. The casing portion is represented at 10 in the form of a counter and will be divided by spaced vertical bars 11 into a plurality of chambers for the reception of the movable bins or receptacles, which are of the tilting form, as shown at 12.

Pivoted by their upper ends, as at 13, upon the inner faces of the dividing-bars 11 are radius-bars 14, one at each side of each bin and pivoted by their lower ends to the sides of the

bin and spaced from their bottoms, as at 15. By this means the bins are suspended in their respective chambers, with a portion of the contents below the pivot-points 15 to provide a counterbalance, as hereinafter more fully explained.

The sides of the bins are rounded at their lower ends and upwardly curved or convex at their upper ends, as shown, and the front and the rear walls are extended at 16 17 to engage the drop-facing 18 of the member 10 to limit both the outward and inward movement, as will be obvious.

Attached to the bars 11 below their centers are bearings 19 in the form of open elongated hooks, and attached to the sides of the bins 12 are studs 20 for engagement with the bearings, as shown. The studs 20 are located concentrically of the curved upper ends of the bins, so that as the latter is opened and closed it will be caused to turn upon the studs as centers and maintain the curved upper ends nearly in the same position constantly relative to the lower edge of the drop-facing 18, the bin rising and falling slightly, owing to the changes of the centers between the radius-bar pivotal points and the studs 20, as will be obvious.

The weight of the bins and their contents are borne wholly by the pivots of the radius-bars 14, and the bins are kept from overturning by the studs 20, operating in the vertically-elongated bearings 19.

It will be noted that the pivotal points 15 are located at a considerable distance above the bottom of the bin, so that a relatively large amount of the contents of the bins are below the pivots to form a counterbalance thereto and materially aid in operating the bins, so that less power is required to operate them, as will be obvious.

Formed in the curved upper edges of the sides of the bins are intermediate notches 21, adapted to engage the drop-facing portion 18 and permit the studs 20 to be lifted from the bearings 19 when the bins are to be detached, the pivot-points 15 having first been disconnected.

Attached to the outer faces of the bins are base-plates 22, having spaced guideways 23 along their edges, and detachably supported

in these guideways are receptacles 24, preferably with transparent front walls and each with an aperture in the rear side through which the interior is accessible when the receptacles are detached from their bases. The rear apertures will each be provided with a closure 25, which will be held in place by the base member 22 when the receptacle is positioned thereon, as shown. The receptacles 24 are to contain samples of the contents of the bins, so that the salesman or customer can see at a glance the quality or nature of the goods within the bin, and thus materially aid in the work of supplying the desired goods and reducing the labor and time required to supply the customer to a corresponding extent.

The receptacle 24 will preferably be in the form of a metal skeleton frame with glass or other transparent panels, as represented, and may in that way be made highly ornamental, and will add to the attractiveness of the apparatus.

The sample-receptacles can be very quickly detached and the contents changed or renewed when required, so that the contents of the sample-receptacle will always denote the quality and nature of the contents of the bin to which it is attached.

The sample-receptacles may be of any size and of any suitable material.

Having thus described the invention, what is claimed is—

1. The combination of a bin-chamber, having spaced vertically-elongated bearings, a bin movable within said chamber and having studs engaging said bearings, and radius-bars connected respectively by their ends to said chamber and bin.

2. The combination of a bin-chamber having spaced bearings elongated vertically and

open at the top, a bin movably disposed within said chamber and having studs supported within said bearings and with the upper surface of the bin concentric to said studs, said bin having stops at its front and rear to limit its movement and with notches intermediately of said concentric surfaces to permit its detachment from said chamber.

3. The combination of a bin-chamber having spaced vertically-elongated bearings, a bin movable within said chamber and having studs engaging said bearings and with its upper side substantially concentric to said studs and with stops at the front and rear to limit its movement, and radius-bars pivoted by their upper ends to said chamber in vertical alignment above said bearings and pivoted by their lower ends to said bin between said studs and said concentric end and centrally of the bin.

4. The combination with a storage-receptacle of a base member attached to the front thereof and having spaced parallel guideways, and a sample-receptacle having a transparent front and detachably supported by said guideways.

5. The combination with a storage-receptacle of a base member attached to the front thereof and having spaced parallel guideways, a sample-receptacle having a transparent front and detachably supported by said guideways and with an aperture in its rear side provided with a detachable closure held in position by the base member when the sample-receptacle is closed.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ARNOLD J. WEST.

Witnesses:

H. A. HAYES,
W. B. MACK.