J. B. KIRKALDIE.

PIVOTED REMOVABLE COUNTER BIN.

APPLICATION FILED DEC. 27, 1909.

1,009,977.

Patented Nov. 28, 1911.

2 SHEETS—SHEET 1.

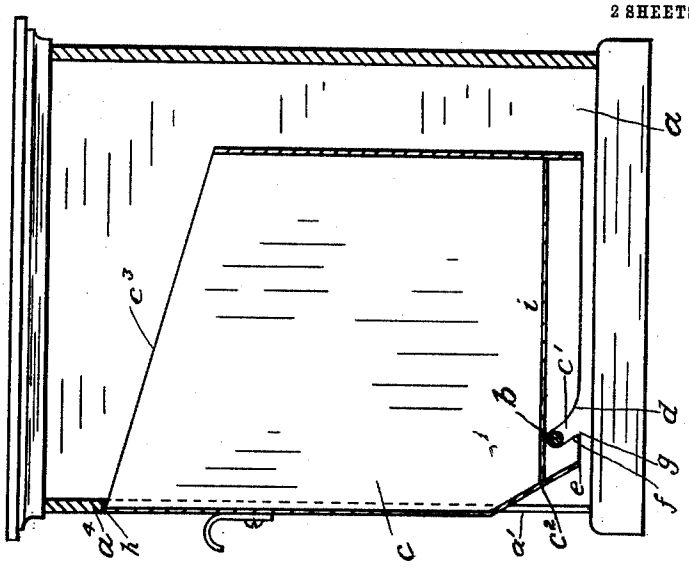


Fig. 1.

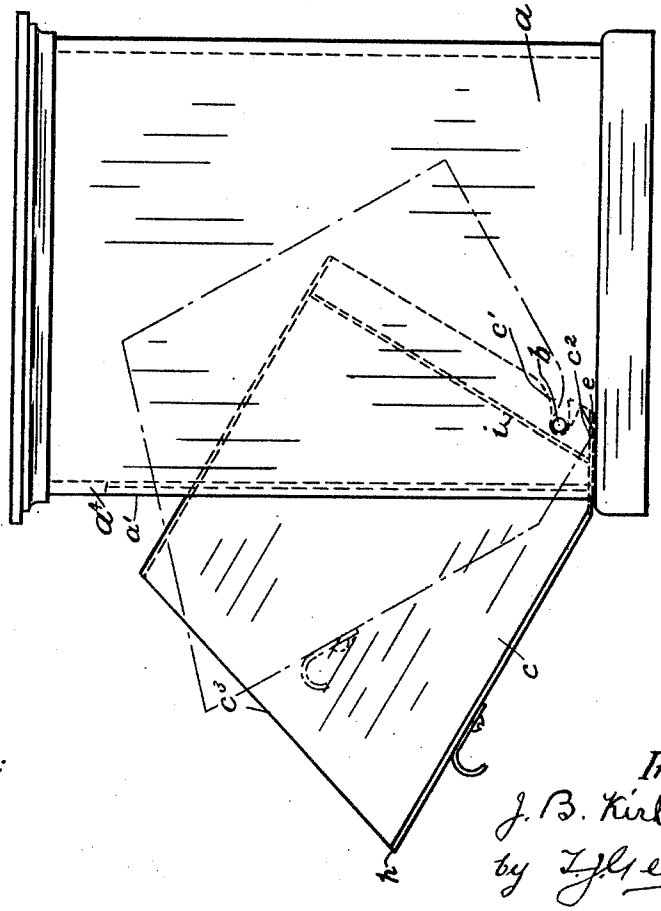


Fig. 2.

Witnesses:
Cecil Long
Martin

Inventor:
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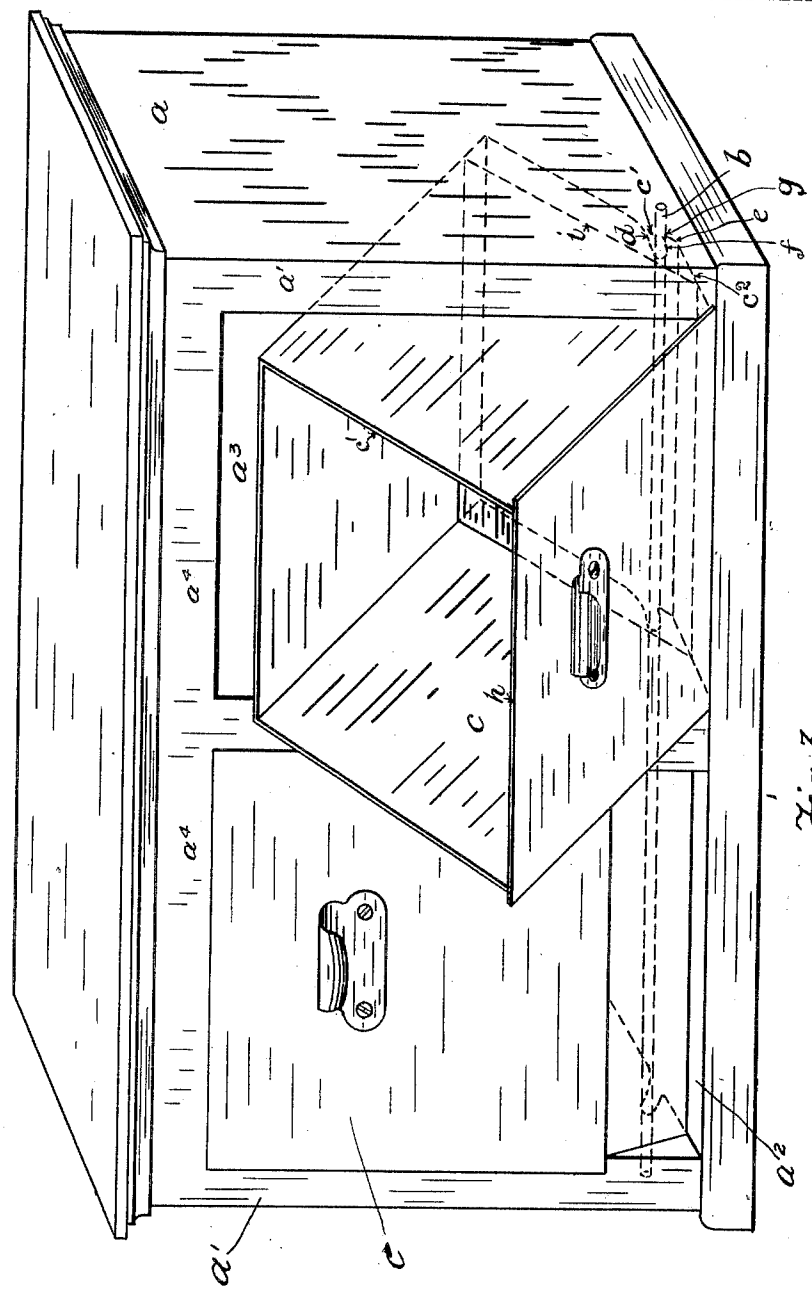


Fig. 3.

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UNITED STATES PATENT OFFICE.

JAMES B. KIRKALDIE, OF ELMA, WASHINGTON.

PIVOTED REMOVABLE COUNTER-BIN.

1,009,977. Specification of Letters Patent. Patented Nov. 28, 1911.

Application filed December 27, 1909. Serial No. 535,180.

To all whom it may concern:

Be it known that I, JAMES B. KIRKALDIE, a citizen of the United States, and a resident of Elma, Chehalis county, State of Washington, have invented a new and useful Improvement in Pivoted Removable Counter-Bins, of which the following is a specification, reference being had to the accompanying drawings, constituting a part thereof.

The object of my invention is to provide a bin adapted to be used as a repository for groceries, hardware, or other material, and pivotally mounted under the counter by simple means, normally pivotally supporting the bin, so that it may be conveniently swung out and dropped to give access to the material contained therein, and returned to its upright, concealed position within the counter housing; said means being adapted to hold the bin during its up and down movement against displacement from its pivotal support, but yet permitting the removal of the bin from its pivotal support when required.

Incidentally it is also my object to so contrive my bin and its supporting means, that while durably made, they are cheap to manufacture.

These and other features and advantages are more fully set forth in the body of the specification.

Figure 1 is a sectional side elevation of my bin showing the same installed in one end of the housing of a store counter; Fig. 2 shows the same end of the store counter and my bin as dropped to its position facilitating access to its interior; and Fig. 3 is an isometric perspective of a counter containing two of my bins, one of which is shown in its up or concealed position, and the other in its dropped position.

The counter, *a*, is of the common construction and affixed transversely within the bottom part of its housing is a pivot rod *b*. The front, *a'*, of the counter is so constructed as to be divided into two compartments a^2, a^3, but of course in practice as many compartments and bins may be used as convenient.

My bin, *c*, made of any suitable material, comprises front and rear walls, sides and bottom. As more clearly shown in Fig. 1, the front walls of the bin have portions extending below the bottom *i* and the sides are each provided with curved slots *c'*, such slots being projected at an oblique angle toward the front of the bin. The bottom portion c^2 of the front wall of the bin is constructed at an oblique angle, so as to adapt that face to rest on the bottom of the counter, and thus support the bin in its exposed position, as illustrated in Fig. 2. The base portions of the front and rear walls stiffen the sides. The top c^3, of the sides and back of the bin, is arranged to decline rearward, so that the bin may be freely swung in and out, on its pivots, past the horizontal top member a^4 of the apertured front wall *a'* of the counter. When the bin is arranged in its closed or concealed position, as shown in Fig. 1, the front edge *h* of the top abuts against the top strip a^4. The bin is mounted on the pivot rod *b* by the slotted lower portions of its sides straddling the rod *b*, as more clearly shown in Fig. 1. The slots *c'* are developed on a curve so as to hold the bin seated on the pivot rod *b* throughout nearly its full inward and outward movement. In other words, the convex faces *d* of the slotted portions of the side walls provide the means for holding the bin on its pivot-rod *b* during its outward movement until it has about reached the end of such outward movement, as will be noted from the dot-and-dash outline of the bin in its half-way position, in Fig. 2, and in this respect locks the bin on its pivot-rod and prevents it being inadvertently pulled out of place while being moved up and down. The further outward movement of the bin will cause it to rest in part on the corners *e* of the bottom of the sides. When in this position the bin can be pulled out by so manipulating it as to pull the slotted sides from the rod *b*; but if such is not desired, then by holding the bin slightly against the pivot-rod *b* it may be dropped to its exposed or open position, as shown in full outline in Fig. 2, and the bin will then again be locked in place by its pivot rod.

The concave faces *f* of the slots *c'* are described from the same center as the convex faces *d*, and the corner *g* is cut somewhat rounded so as to facilitate the insertion and removal of the bin, and also to eliminate any weak projecting portions.

I claim:

A bin comprising a housing, a top piece in said housing; a pivot-rod transversely affixed near the front at the bottom of said housing; a bin pivoting on said pivot-rod; the front portions of said bin being adapted

to support the latter in its exposed position, and said bin adapted, when shut, to abut against said top piece of the housing; said bin provided with side portions extending below the bottom and said portions provided with curved slots projected at an oblique angle toward the front of the bin, and providing convexed bearing faces; and the parts being so arranged that said convexed faces of the slotted lower portions of the bin will hold the latter on its pivot-rod during its outward movement until it has about reached the end of such outward movement, and also will hold the bin in place on its pivot-rod when in open position, and the lower front corners of the bin being arranged to support, and permit the withdrawal of, the bin when the latter is correspondingly positioned, substantially as described.

J. B. KIRKALDIE.

Witnesses:
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L. R. BYRNE.

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