(No Model.)

W. V. YOUNG.

COMBINED SHOW CASE AND BIN.

No. 395,106. Patented Dec. 25, 1888.

Fig. I.

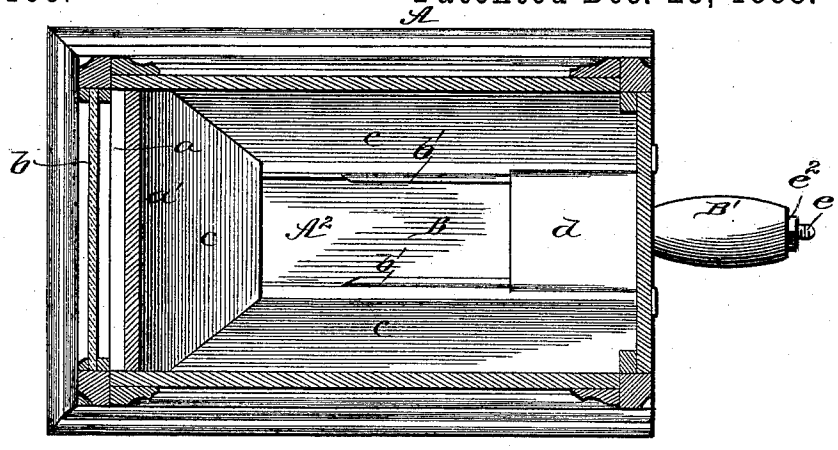


Fig. II.

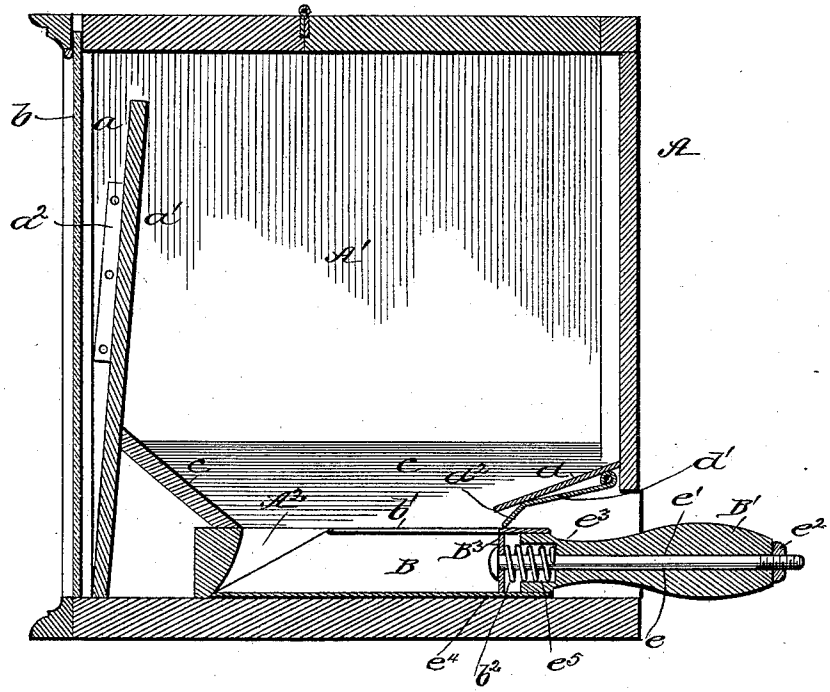
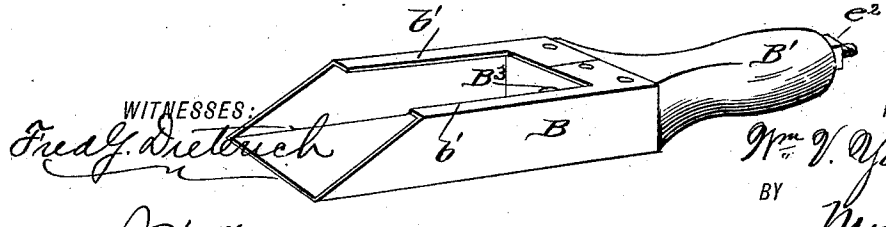


Fig. III.



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UNITED STATES PATENT OFFICE.

WILLIAM VICTOR YOUNG, OF NORTH CLARENDON, PENNSYLVANIA.

COMBINED SHOW-CASE AND BIN.

SPECIFICATION forming part of Letters Patent No. 395,106, dated December 25, 1888.

Application filed August 10, 1888. Serial No. 282,480. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM VICTOR YOUNG, of North Clarendon, in the county of Warren and State of Pennsylvania, have invented a new and useful Improvement in a Grocers' Combined Show-Case and Bin, of which the following is a specification.

This invention is applicable particularly to show-cases or bins, and has for its object to provide for the convenient dealing out of their contents, as merchandise; and it consists of a scoop of peculiar construction and which is adapted to combine with the show-case or bin in the removal of the contents, substantially as hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure I is a horizontal section of a show-case or bin, showing my improved scoop in plan view as applied thereto. Fig. II is a sectional elevation of the same, and Fig. III is a perspective view of my improved scoop.

In the embodiment of my invention I provide a case or inclosure, A, which is divided into a number of bins or compartments, A′ A′, for holding the goods or merchandise offered for sale—as, for example, rice, oatmeal, hominy, dried beans, peas, coffee, and such like. The compartments or bins are each provided with a sub-chamber, *a*, at its front end, to contain a sample of the contents of its bin or compartment, by means of a partition or board, *a′*, preferably disposed in a vertical inclined position against cleats, as at a^2, and fastened in place, it may be, by nailing it to the sides of the case or inclosure A. In the front end of each bin or compartment is placed a removable pane of glass or other transparent substance, *b*, in order to expose to view the samples contained in the sub-chambers *a a*. Each compartment or bin A′ is provided with a bottom chamber, A^2, which is formed of a rectangular chamber opening at its rear end through the rear side of the casing A, and of a size or capacity just adapted to snugly receive the scoop, presently referred to. The sides and front end of each bin or compartment A′ are connected by sloping marginal portions *c c* with the upper edges of the bottom chamber, A^2, to aid the downward flow of the contents of the bins or compartments to the bottom chambers, especially when a portion thereof is removed.

To the rear end of the bin or compartment is applied an inclined tapped chute, *d*, reaching forward a suitable distance within the bottom chamber, A^2, and resting at its lower side edges upon the bottom of said chamber, while its extreme rear side edges are passed through the open end of said chamber and by preference turned outward and secured against the outer side of the rear end of the case A. Within this chute *d* at its upper rear edge is hung a cut-off or valve, *d′*, the free forward edge of which valve is slightly deflected downward, as at d^2, and closes the chute, and consequently the opening at the rear end of the bottom chamber of the bin or compartment.

B is the scoop, the bowl of which is preferably of a narrow rectangular shape, having a straight flat bottom and sides, while its sides at the top edges are slightly extended inward into flanges, as at *b′*, and at the forward end are inclined or beveled upon their top edges a suitable distance downward and forward to the bottom edge thereof, the purpose of which will appear farther on. The rear end of the sides and bottom of the scoop-bowl is fastened to the preferably-rectangular head portion of a handle, B′, and is carried across the upper side of and caused to project a short distance forward from said head portion, thus forming a shallow chamber, b^2, at the inner end of the scoop-bowl in front of the said head portion.

B^3 is a follower or false head disposed in the chamber b^2 of the scoop-bowl and secured upon a screw-threaded rod, *e*, passing through a longitudinal passage or aperture, *e′*, in the handle B, to which at the outer rear end of the handle is applied a nut, e^2. Upon the rod *e* is arranged or applied a spring, e^3, one end of which is secured to a washer-like disk, e^4, fitting against the follower or false head B^3, while its opposite portion rests in an enlargement, e^5, of the passage *e′* in the inner end or head portion of the handle B′. The follower or false head B^3 is thus rendered adjustable in order to vary the holding capacity of the scoop-bowl to accommodate it

to measure out a given quantity of any one of different articles of merchandise the bulk of which varies as to weight.

The scoop-bowl is designed to have a prescribed or predetermined capacity—in the present instance being a pound.

The bins or compartments A′ of the case A are each filled through a door in the rear top portion or half of the case, while the other half or portion of its top may be utilized as a shelf or place for holding goods or boxes.

It will be seen that with the bowl of the scoop thrust by the hand through the chute (the valve or cut-off automatically swinging forward and upward, permitting the passage of the scoop-bowl) and into the bottom chamber of the desired bin or compartment of the case the contents of said chamber will be mostly taken up by said scoop-bowl. Now by withdrawing said scoop with its contents the deflected portion of the valve or cut-off will scrape off or remove the surplus portion of the main body of its contents, as also the surplus portion of the same at the forward incline-edged portion of the scoop-bowl, as said deflected portion of the valve or cut-off descends said incline-edged portion of the scoop-bowl.

From this it will be observed that the scoop will be removed or withdrawn with just the prescribed or predetermined quantity and without waste, while, the valve or cut-off following up and closing immediately after the withdrawal from the bin or compartment of the scoop-bowl, none of the remaining contents of the latter can escape or waste therefrom.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The scoop having an adjustable false head or follower at the inner end of its chamber, substantially as set forth.

2. The scoop having a false head or follower secured upon a screw-threaded rod passed through the handle of the scoop and provided with a spring arranged between said false head or follower and the inner headed end of the handle, substantially as set forth.

3. The case provided with a compartment or bin having a contracted bottom chamber provided with a chute having a valve or cut-off, in combination with a scoop having its bowl fitted to said bottom chamber and having an adjustable false head at its inner end, substantially as set forth.

4. The case provided with a compartment or bin having a contracted bottom chamber provided with a chute having a valve or cut-off, in combination with a scoop having its bowl fitted to said bottom chamber, and having a false head or follower secured upon a screw-threaded rod passed through the handle of the scoop, and provided with a spring arranged between said false head and the inner headed end of the handle, substantially as set forth.

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