

Dec. 25, 1956

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2,775,365

BAG DISPENSER

Filed March 6, 1953

2 Sheets-Sheet 1

Fig. 1.

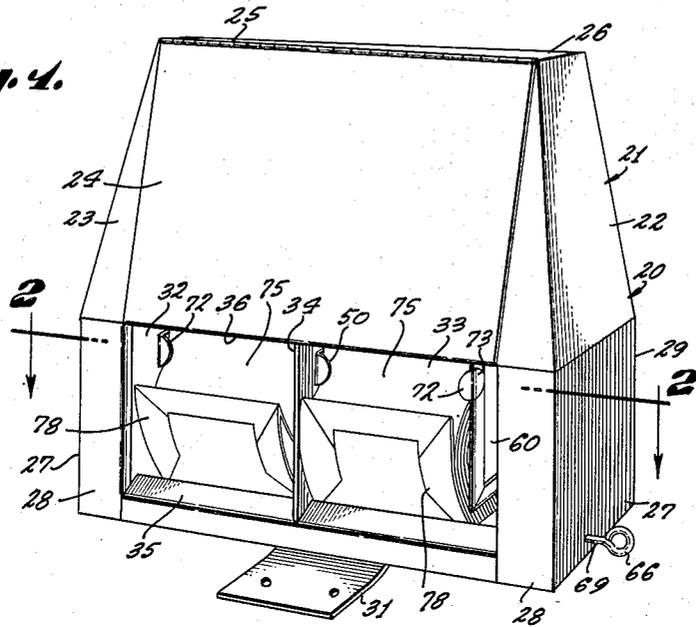
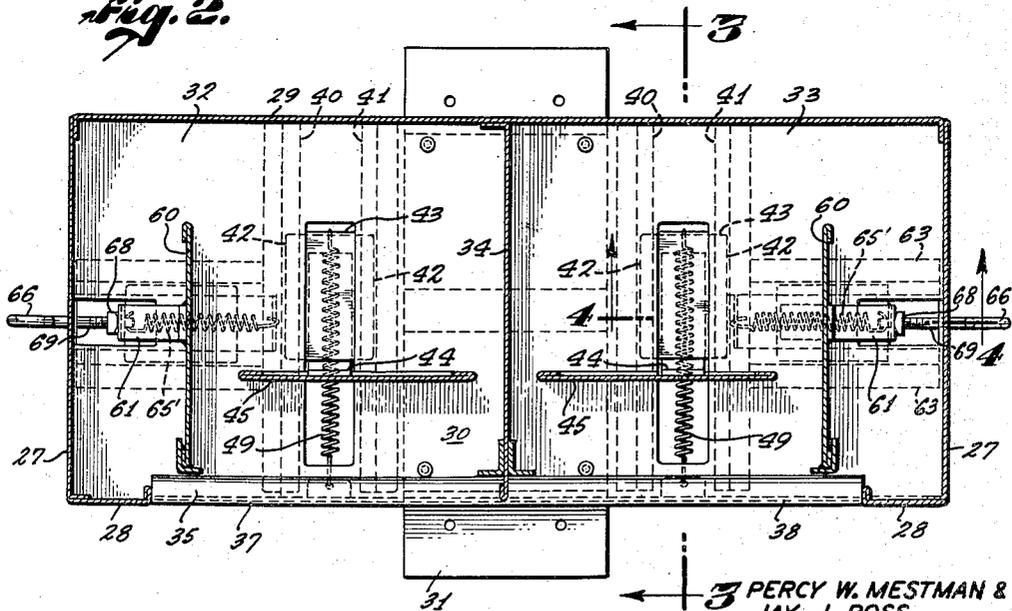


Fig. 2.



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Fig. 3.

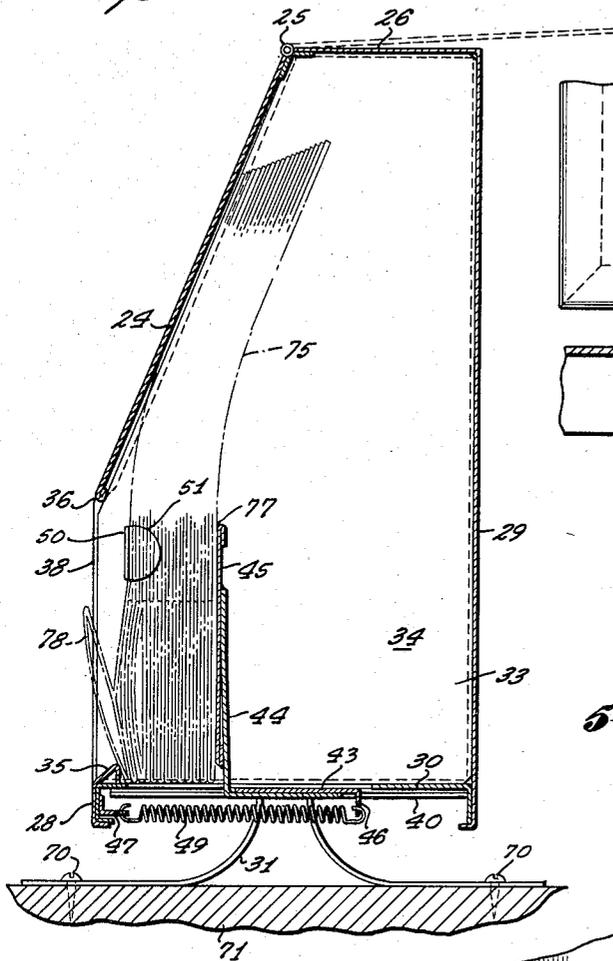


Fig. 5.

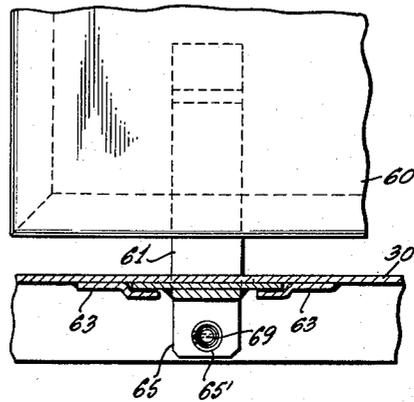
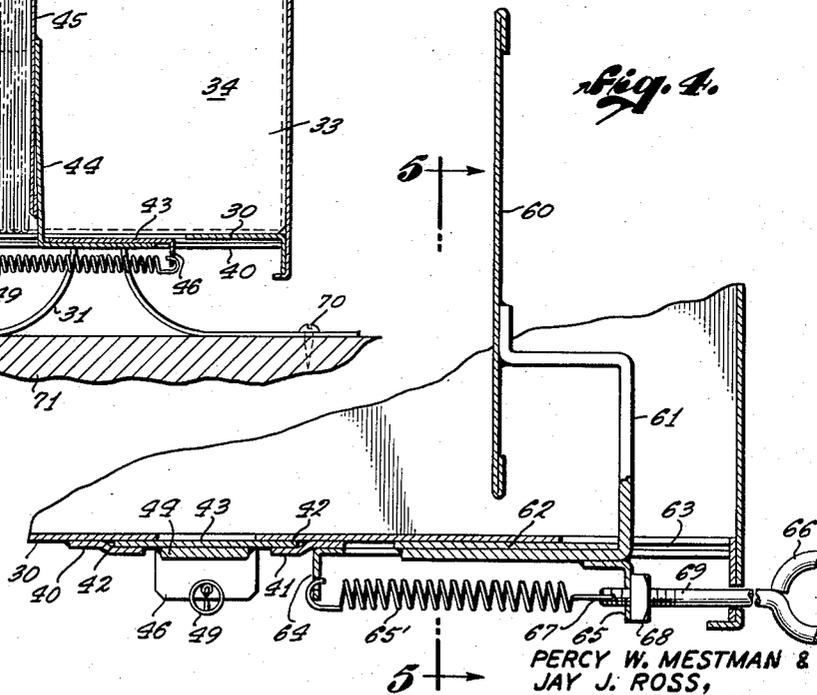


Fig. 4.



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2,775,365

BAG DISPENSER

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Application March 6, 1953, Serial No. 340,878

8 Claims. (Cl. 221—44)

This invention relates to dispensers, and more particularly to a paper bag dispenser, especially of a type to contain articles of merchandise purchased in retail stores.

It is intended by the instant invention to provide a new and improved paper bag dispensing means, preferably in the form of a self-contained unit in which suitable means for holding the bags clampedly but releasably together to permit them to be withdrawn one at a time, most desirably by means of their folded bottoms which are presented forwardly through a suitable opening provided in the container therefor.

It is also desired by this construction and invention to provide readily releasable and adequately retentive means for releasably retaining the bags in a transverse direction, but with sufficient facility of lateral movement that the same may accommodate bags of various sizes within predetermined limits.

It is accordingly among the objects of this invention to provide a new and improved bag container and dispenser which will conveniently releasably dispense and retain a plurality of paper bags within a predetermined range of preselected sizes.

It is also among the objects of this invention to provide a dispenser of the desired character described which is convenient in use, whether for the insertion of a new charge of bags, their handy retention and facile accessibility and withdrawal.

It is also among the objects of this invention to provide a new and improved paper bag dispenser of relatively simple construction, fully proved in operation, economical in manufacture, of minimum dimensional characteristics within the limits of the intended use, and which is capable of easy and relatively inexpensive mass production.

It is also among the objects of this invention to improve over prior art devices heretofore intended to accomplish generally similar purposes.

These and other objects and purposes will be more fully understood by reference to the accompanying specification considered in the light of the drawings and the appended claims.

In the drawings:

Figure 1 is a perspective front view of a paper bag dispenser embodying this invention.

Figure 2 is a plan sectional view, taken as on a line 2—2 of Figure 1.

Figure 3 is a vertical sectional view, taken as on a line 3—3 of Figure 2.

Figure 4 is a vertical fragmentary sectional view, taken as on a line 4—4 of Figure 2.

Figure 5 is a fragmentary detailed view, taken as on a line 5—5 of Figure 4.

Referring more particularly to the drawings, there is shown by way of illustration but not of strict limitation a dispenser comprising a cabinet generally designated by the reference numeral 20, including a tapered top 21, preferably having slanting side walls 22 and front wall 23, the latter being provided with a door 24 hinged as at 25 along the top 26.

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The cabinet further has sides 27, a front 28, and a back 29. A bottom 30 conveniently includes a suitable support 31.

Any number of bag compartments may be put in a single cabinet, but, as shown, the cabinet is divided into two compartments 32 and 33 separated by a central vertical partition 34.

A longitudinally extending foot or abutment 35 defines, together with the lower edge 36 of the door 24 and the side wall portions designated by the numerals 28, bag dispensing openings 37 and 38 in the embodiment shown.

The floor 30 is provided with a front to back, or forwardly directed, guide as in the form of channel strips 40 and 41 adapted to receive the side edges 42 of a guide piece 43, longitudinally slidable therein and supporting an upstanding arm 44, which in turn holds a pressure plate 45 in a vertical position in and transversely of the respective chambers 37 and 38.

The arm 44 is optionally integral with the slide 43 and the latter is also optionally integral with a down-turned ear 46 complementary to a lug 47 secured to the front wall 28 of the cabinet. A coil spring 49 normally urges the pressure plate 45, through said arm 44 and slide 43 forwardly within a corresponding bag holding compartment.

One side wall of any bag holding partition includes a laterally directed finger-piece 50 secured to said side wall, for example 34, by means of an angle bracket 51 in part defining said finger-piece 50. If desired, said finger-piece 50 may be struck inwardly from such partition 34 in lieu of the use of a separate angle bracket 51.

A laterally or inwardly urged pressure plate 60 is mounted on an arm 61 secured to a slide 62 adapted for slidable frictional movement between spaced guides 63. Downwardly directed ears 64 and 65, the latter being secured to or part of the arm 61, and the former being fixedly secured to the bottom of the cabinet, retain a coil spring 65 which normally urges the lateral pressure plate 60 inwardly transversely of its corresponding compartment. A finger-piece 66 manipulable from the outside of the cabinet, and extending through the wall 27 thereof, is adapted to draw the lateral pressure plate 60 outwardly towards the side 27. The manipulable finger-piece 66 is secured to the ear 65 by means of the end 67 of the coil spring 65 on the one hand and a nut 68 threaded upon the shank 69 of the finger-piece, in the drawing comprising a threaded eyebolt.

The cabinet is mounted upon the support 31, which in turn is secured as by screws 70 to a preferably horizontal supporting structure 71 which may, for example, be a table, a counter, or other suitable base.

The pressure plate 60 is formed with an inwardly and transversely directed finger 72 optionally in the form of an angle 73, corresponding in vertical elevation and complementary to the finger 50 and the angle 51.

In the use and operation of the dispenser a suitable number of paper bags 75 of a given size are positioned in the dispenser as shown most clearly in Figures 1 and 3. The bags may be placed in this position within the cabinet by opening the door 24, which then assumes its dotted position as in Figure 3, manually forcing the forwardly urged pressure plate 45 rearwardly against tension of the coil spring 49, and inserting the bags in their folded condition as shown downwardly through the opening left by the door 24. Optionally, however, in view of the relatively large space between the cooperative and complementary fingers 50 and 72 the bags may be forced rearwardly, after lifting the door 24, until they clear the fingers 50 and 72 either with or without retracting the lateral pressure plate 60 by means of the manipulable finger-piece 66, or by direct pressure upon the plate 60.

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When a group of bags have been placed within the container and the door closed at 24, the upper ends 76 are deflected rearwardly by the door. Such rearward deflection, while not necessary, is advantageous in causing the desired tilting action 77 around a pivot established by the upper edge 77 of the pressure plate 45. Whether with or without such pivoting action against the bags 75, the lower ends of the bags are urged against the abutment 35 due to the urging of the forwardly biased pressure plate 45, and the folded bottoms 78 of the bags being positioned within the dispenser cabinet as shown protrude as the respective bags are exposed for removal through the openings 37 or 38 of the respective bag holding compartments, each of which may contain bags of different sizes from those contained in any other compartment. That is to say, the respective compartments can be distinct not only in function but also in structure, so that any single cabinet may contain as many bag holding compartments as desired.

Any suitable material may be employed for the cabinet and the various parts thereof illustrated and described. It has been found that sheet metal is a material of choice in all parts except the springs 49 and 65 and the manipulative finger-piece 66.

Although I have herein shown and described my invention in what I have conceived to be the most practical and preferred embodiment, it is recognized that departures may be made therefrom within the scope of my invention, which is not to be limited to the details disclosed herein but is to be accorded the full scope of the claims so as to embrace any and all equivalent structures and devices.

We claim:

1. In a dispenser for paper bags comprising a frame having a bottom wall means and side wall means and defining a front opening, the novelty comprising: finger means extending laterally inwardly from a fixed one of said side wall means, first pressure means including spring means for normally biasing said bags forwardly in said frame and against said finger means, second pressure means including spring means mounted in the frame for normally urging said bags laterally against said fixed one of said side wall means, and another finger piece on said second pressure means directed laterally towards and complementary to said first mentioned finger means.

2. In a dispenser for paper bags, a frame defining a forward opening and having a bottom wall and side walls, said frame defining an abutment at the bottom edge of said opening, finger means fixed relative to one of said walls of the frame spaced inwardly from said opening and extending parallel to the plane of said opening toward the other side wall, pressure plate means normally urging said bags forwardly in said frame towards said opening and against said finger means and abutment, second pressure plate means mounted in the frame normally urged towards said one side wall and having a finger piece on said pressure plate complementary to said first mentioned finger means and inwardly and laterally directed towards said first mentioned finger means, said second pressure plate means normally urging said bags into edgewise engagement against said one wall and between said wall and said second pressure plate means.

3. A dispenser as defined in claim 2, and manual means

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at the side of the dispenser corresponding to said second pressure plate means, connected to said second lateral pressure plate means, and mounted in said frame, for retracting said second lateral pressure plate means.

4. A bag dispenser as defined in claim 3, said frame including a front wall means above said opening and sloping rearwardly from said opening for engaging the top portions of said bags and deflecting them rearwardly thereat in a manner to flex the bags and cause the bottoms to protrude through said opening.

5. A bag dispenser as defined in claim 2, said forwardly urged pressure plate means being normally spaced from said one side wall and said second pressure plate means and being adapted to engage the central portion of said bags at positions spaced inwardly from the outermost margins of said bags causing said bags to bow outwardly about a vertical axis between said finger means and finger piece.

6. A bag dispenser comprising a cabinet having a top, sides, a back, and a bottom, and having an open front portion, abutment means defining the lower edge of said open front portion, finger means at either side of said open front portion adapted to engage the front side edges of a bag positioned in the dispenser cabinet, one of said finger means being spring urged to a position for engagement against the corresponding front side edge of said bag and including a spring urged pressure plate also urged by said spring against the corresponding side edge of said bag, and another spring urged pressure means in the cabinet normally urging said bag forwardly out of said open front portion against said finger means and said abutment means.

7. A bag dispenser as defined in claim 3, said frame including a front wall means above said opening including means pivotally mounting the same at the top of said front wall means to the frame on a horizontal axis, said front wall means normally sloping rearwardly from said opening for engaging the top portions of said bags and deflecting them rearwardly thereat in a manner to flex the bottoms of the bags toward said opening.

8. In a dispenser for paper bags comprising a frame having a bottom wall means and side wall means and defining a front opening, the novelty comprising finger means extending laterally inwardly from said side wall means, an abutment means for the bottom edges of said bags on the frame at the bottom of said opening, first pressure means including spring means for normally biasing said bags forwardly in said frame and against said finger means and said abutment means, second pressure means including spring means mounted in the frame for normally urging said bags laterally against said side wall means from which said finger means extend, and another finger piece on said second pressure means directed laterally towards and complementary to said first mentioned finger means.

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