United States Patent [19]

Choy

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[54] **ROLL PAPER DISPENSERS**

[76] Inventor: **Solomon K. Choy**, 601 Iaukea St., Honolulu, Hawaii 96813

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[52] **U.S. Cl.** **242/55.3**
[51] **Int. Cl.** **A47k 10/22**
[58] **Field of Search** 242/55.3, 55.53, 242/55.42; 312/39

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Primary Examiner—George F. Mautz
Attorney—James C. Wray

[57] **ABSTRACT**

This invention concerns a dispenser of paper from rolls thereof and which rolls may contain toilet paper or paper towels and similar rolls of material to be neatly stored and dispensed. A magazine is associated with the dispenser so that paper rolls, or rolls of material, are always available for use in the dispenser. A roller core is removed through an enlarged opening in the side of a dispenser and is inserted laterally through an enlarged opening into the next above roll.

8 Claims, 7 Drawing Figures

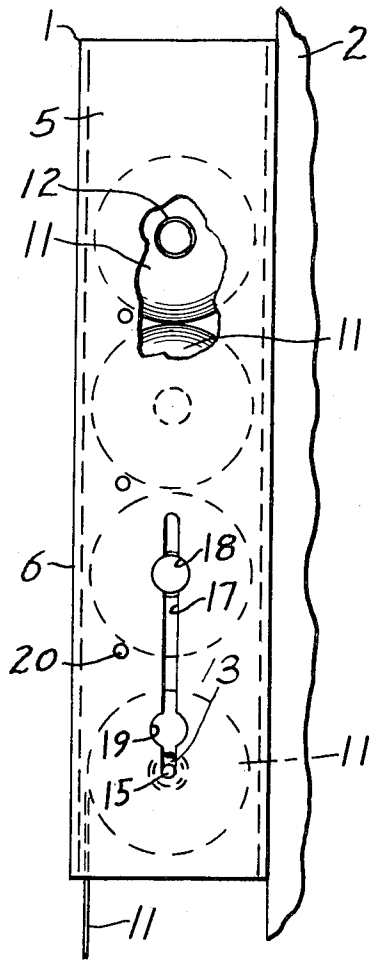
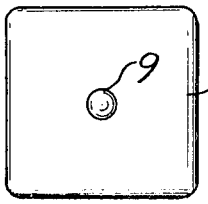


FIG. 2



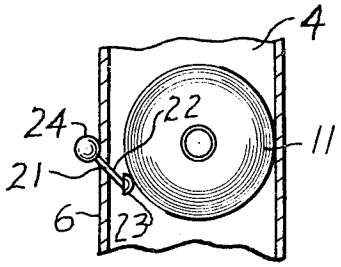


FIG. 7

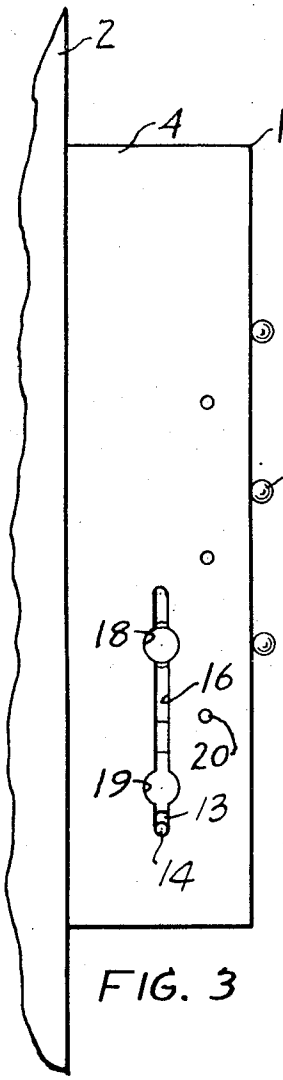
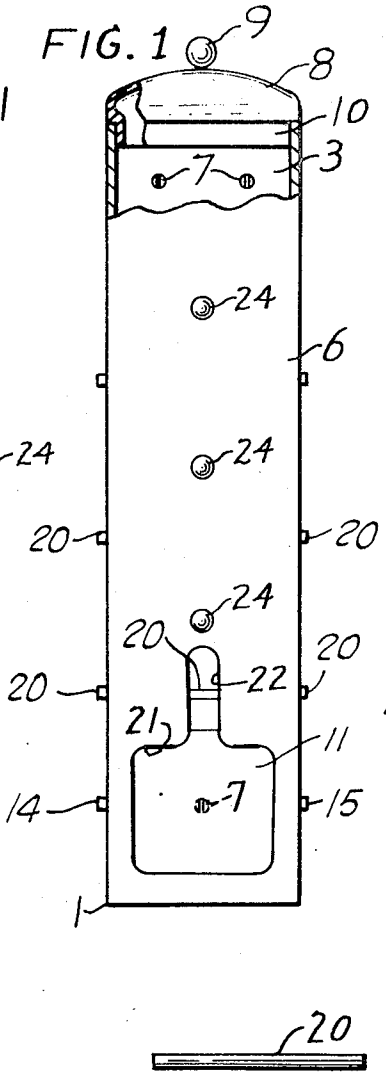


FIG. 3

FIG. 1



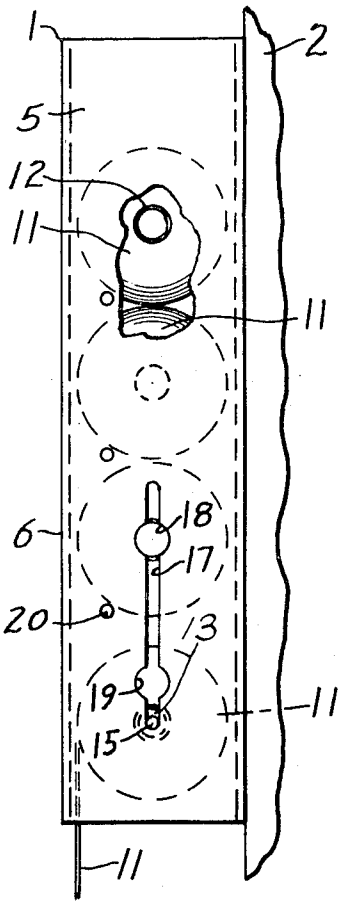


FIG. 4

FIG. 6

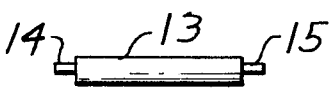


FIG. 5

INVENTOR
SOLOMON K. CHOY

BY

Earl C. Moore
ATTORNEY

ROLL PAPER DISPENSERS

The invention herein disclosed is especially useful for dispensing toilet paper and the like in combination with storage means for extra rolls.

An important object of this invention is to present a combination paper dispenser and storage facilities for extra rolls of paper.

Another object is to provide a paper dispenser which accommodates a plurality of rolls of paper and the like to be dispensed in an orderly fashion and a cabinet for the rolls of paper which can be configurated to receive rolls of paper of different widths, that is, the cabinet can be sized to accommodate rolls of toilet paper, paper towels, plastic wrapping paper and aluminum foil rolls.

Another object is to provide a dispenser-storage device which is simple in construction and economical to make and manufacture and meets present day demands.

In the drawings:

FIG. 1 is a front elevational view of a dispenser-storage combination with a portion broken away to show a lid therefore;

FIG. 2 is a plan view of a lid for the combination;

FIG. 3 is an elevational view of one side of the combination;

FIG 4 is an elevational view of another side of the combination with a portion broken away and with parts shown in broken lines;

FIG. 5 is an elevational view of a roller core employed with this invention;

FIG. 6 is an elevational view of a rod which is employed in the invention;

FIG. 7 is a vertical sectional view of a modified form of the invention.

The particular form of the invention shown in the drawings shows a tubular casing or cabinet 1 having open ends and which casing has a back wall 3 which is supported by a means 2. This means 2 may be the wall of a building and the like or an upright such as a pillar or the frame of some suitable standard or pedestal. Obviously, a table-like support may be provided.

The casing 1 has suitable openings to accommodate screws 7 so that the casing can be fixed to a vertical support means like 2. Side walls 4 and 5 and front wall 6 are integral with the back wall 3 and form a tube-like means with an elongated chamber to accommodate a plurality of rolls of material such as toilet paper, but if made wider, rolls of paper towels etc., may be accommodated. The top end of the tubular casing 1 is closable by the lid means 8 which has the lifting knob 9 and the flanges 10 which enter the casing and makes good closing contact therewith. The paper passes through the open bottom of the casing and is torn off in segments.

FIG. 4 shows a plurality of rolls of toilet paper 11 in the chamber of the casing 1, and each roll of such paper always has a tube with a center opening 12 about which the paper is coiled or wrapped. This center tube is usually pasteboard. But the solid core 13 is usually made of wood or plastic material, note FIG. 5, and this core is commonly employed for holding toilet paper. This core has the projecting rod-like ends 14 and 15 which in this particular case engage the side slots 16 and 17 of the casing 1. Each slot has the large openings 18 and 19 through which the tube 13 can pass when removed from the core 12 of a used roll and for placement in the next roll above.

Each side wall of the casing 1 is provided with an opening to accommodate a rod 20 snugly. This rod holds a roll of toilet paper in position just above the one being dispensed. This rod 20 is removed when it is desired to drop this particular roll to the bottom dispensing position. The front openings 21 and 22 are provided.

Rolls of toilet paper are stacked in the casing as illustrated in broken lines in FIG. 4. The bottom roll is supported by the solid core 13 which has its projected ends in the slots 16 and 17. The roll of paper just above the bottom roll is supported by the rod 20. When the paper 11 of the bottom roll is gone, the solid core 13 is removed by raising it to the large openings 19 and when removed, the tube 12 that was in the roll of paper then drops down the casing and out the lower end thereof.

The solid core 13 is then placed through the openings 18 and thus through the center of the roll of paper which rests upon the rod 20. The lower most rod 20 is then removed and the roll which rested thereon now drops to the correct position at the bottom of the casing 1, and is likely to be followed by the roll above it. The openings 21–22 at the front of the casing is a means that accommodates a person's hand so that he can raise the following roll IF and when necessary and then replace the rod 20 beneath it as shown in FIG. 4. The operation is very simple and there is nothing to get out of order. Alternatively, the operator may remove and replace each rod 20, dropping successive rolls to the next lower rods.

The modified form shown in FIG. 7 employs a shiftable rod 22 having at one end a fixed knob 24 and at the other end a fixed stop element 23. The rod 22 easily slides through a hole 21 in the front wall 6. When it is desired to drop a roll of toilet paper to the stop means below, it is only necessary to pull the knob 24 to let the roll 11 pass downwardly. When released, the rod 22 by force of gravity will slide back to the position shown in FIG. 7. Such rods are spaced along the front wall 6 of the tubular cabinet as shown in FIG. 1.

The invention is not limited to the exact details disclosed since it is apparent that various modifications may be made without departing from the spirit and scope as set forth in the claims.

Having thus described my invention, what is claimed and believed new and which is desired to be secured by Letters Patent is:

1. A dispenser device for roll-type material comprising:

A. a casing having spaced apart walls and constructed to store rolls of material in a neat vertical row and which material is to be dispensed in segments,

B. the casing having open means through which material from a roll is dispensed,

C. a core means in the bottom roll having end extensions,

D. slot means along the said walls through which said extension slide, the slot means having enlarged opening means through walls of the casing so that the enlarged opening means is employed for removing the core means from an exhausted roll of material near a bottom of the casing and for inserting the core means into the center opening of the next above roll of material,

E. and stop means at the bottom of each slot means which arranges the bottom roll of material into position for dispensing purposes.

2. The device recited in claim **1** wherein the casing has a front face, and opening means in the said front face so that an operator's hand can adjust lower rolls of materials.

3. The device recited in claim **1** wherein a roll of material just above the roll of material being dispensed is provided with a removable stop means.

4. The device recited in claim **1** wherein a roll of material just above the roll being dispensed is provided with a stop rod means which is removed when said just above roll of material is to be shifted downwardly to a dispensing position.

5. The device recited in claim **1** wherein the casing has a front face through which is provided a hand hole, and wherein said enlarged opening means comprise top and bottom vertically spaced apart enlarged openings through which a core means can pass, the bottom alined enlarged openings serving to remove a core means from a roll of material and the top alined enlarged openings serving for insertion of a core means into a center opening of a roll of material just above a bottom roll of material.

6. A dispenser device for roll-type material comprising:

A. a casing having spaced apart walls and constructed to store rolls of material in a neat vertical row and which material is to be dispensed in segments,

B. the casing having open means through which material from a roll is dispensed,

C. a core means in the bottom roll having end extensions,

D. slot means along the said walls through which said extension slide, the slot means having spaced apart enlarged openings so that the bottom enlarged opening is employed for removing the core means from the bottom of the casing and the top enlarged opening is employed for inserting the core menns into the center opening of the next above roll of material,

E. and stop means at the bottom of each slot means which arranges the bottom roll of material into position for dispensing purposes.

7. The device recited in claim **1** further including a hole through a wall of the casing, a rod shiftable in the hole a knob fixed on an outer end of the rod and an inner end of the rod extending beneath a roll of material and a stop element fixed on the inner end of the rod, whereby the rod may be pulled outward to drop the roll to a lower position in the casing.

8. The device recited in claim **7** wherein the hole and rod slope downward and inward, whereby gravity urged the rod inward.

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