March 18, 1941. G. D. WIEPERT 2,235,660

PACKAGE HOLDER FOR ATTACHMENT TO SHELVES

Filed April 6, 1940

Fig. 1.

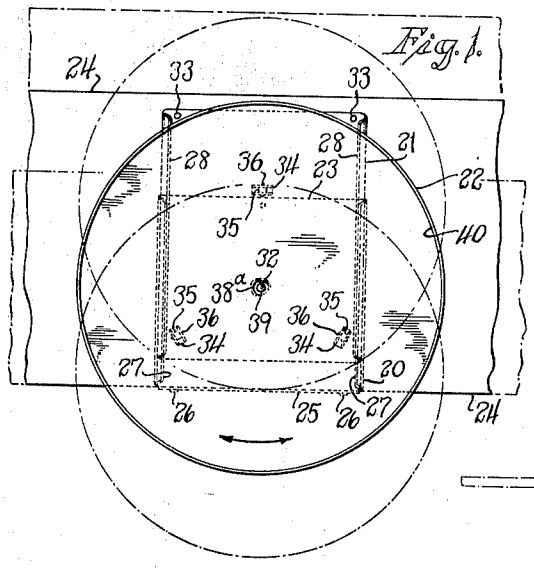


Fig. 2.

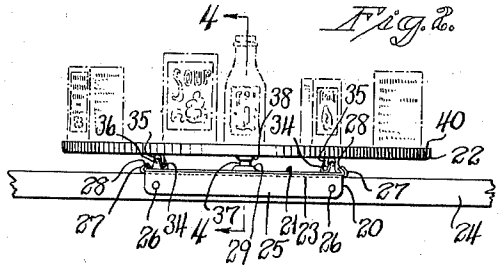


Fig. 3.

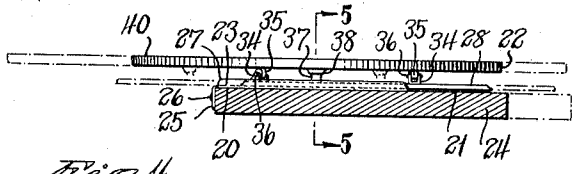


Fig. 4.

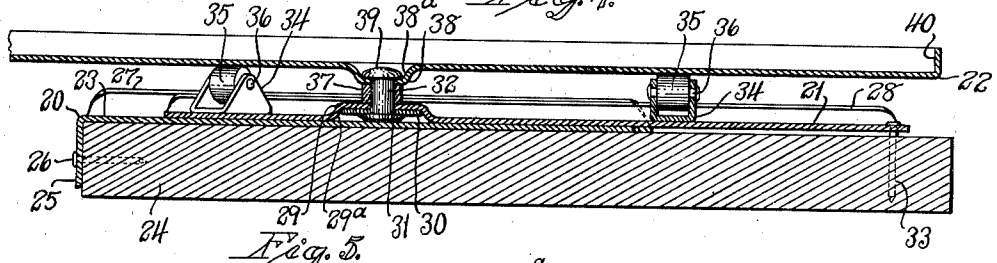


Fig. 5.

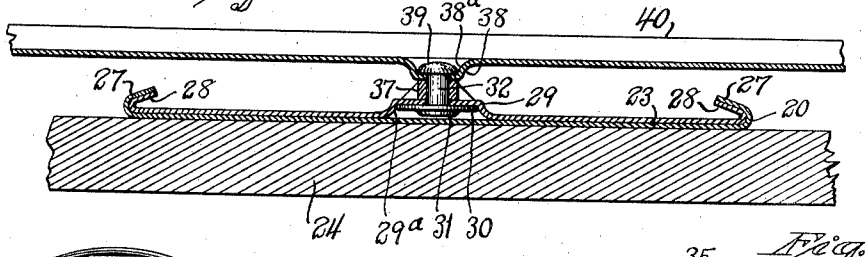


Fig. 8.

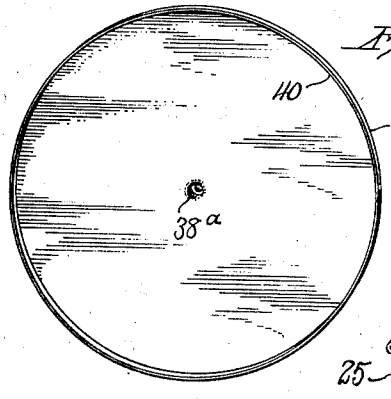


Fig. 7.

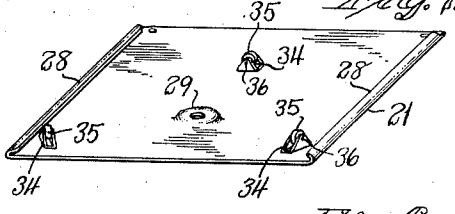
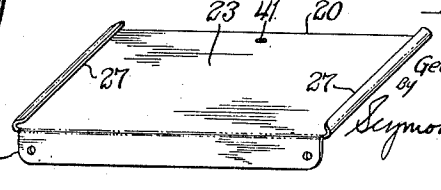


Fig. 6.



Inventor
George D. Wiepert
by
Seymour Earle Nichols
Attorneys

Patented Mar. 18, 1941 2,235,660

UNITED STATES PATENT OFFICE

2,235,660

PACKAGE HOLDER FOR ATTACHMENT TO SHELVES

George D. Wiepert, New Haven, Conn.

Application April 6, 1940, Serial No. 328,187

1 Claim. (Cl. 211—86)

The present invention relates to rotary holders, and more particularly to rotary holders which are adapted for attachment to shelves to make more readily available packages or other materials stored upon such shelves.

One of the objects of the present invention is to provide a superior rotary package holder which may be readily and conveniently mounted upon any one of a plurality of shelves of different depth or width.

Another object of the present invention is to provide a superior rotary package holder constructed and adapted for being mounted at different positions upon shelves.

A further object of the present invention is to provide a superior rotary package holder of the character referred to, and which may be produced at a low cost for manufacture and afford a maximum degree of service to a user.

With the above and other objects in view, as will appear to those skilled in the art from the present disclosure, this invention includes all features in the said disclosure which are novel over the prior art and which are not claimed in any separate application.

In the accompanying drawing, in which certain modes of carrying out the present invention are shown for illustrative purposes:

Fig. 1 is a top or plan view of a rotary package holder embodying the present invention and shown as mounted upon a shelf which latter is broken away;

Fig. 2 is a front edge view thereof;

Fig. 3 is a view thereof in side elevation;

Fig. 4 is a broken transverse sectional view taken on the line 4—4 of Fig. 2, but on a larger scale;

Fig. 5 is a broken sectional view taken on the line 5—5 of Fig. 3, but on a larger scale;

Fig. 6 is a perspective view of the mounting-member, detached;

Fig. 7 is a perspective view of the carrier-member, detached; and

Fig. 8 is a similar view of the package-tray, detached.

The particular package holder herein chosen for the purpose of illustrating the present invention includes three main elements, namely, a mounting-member 20, a carrier-member 21 and a package-tray 22 each of which is movable with respect to each of the other two members in a manner as will hereinafter appear.

The mounting-member 20 may be conveniently formed of sheet metal and includes a plate-like body-portion 23 adapted to rest upon the upper surface of a shelf such as the shelf 24 shown in the drawing. Formed integral with and depending from the front of the plate-like body-portion 23 of the mounting-member 20 is a limiting-flange 25 designed and adapted to engage with the front edge of the shelf 24 and suitably perforated adjacent each of its respective opposite ends to receive nails 26—26 extending horizontally into the shelf 24. At each of its respective opposite side edges the body-portion 23 of the mounting-member 20 is formed with one of two upwardly-and-inwardly-bent guide-flanges 27—27.

The carrier-member 21 before referred to may be conveniently formed of sheet metal and has its respective opposite side edges upwardly-and-inwardly turned as at 28—28 to provide reinforced side edges.

Preferably, and as shown, the carrier-member 21 is struck-up to form a centrally-perforated boss 29 providing an annular downwardly-opening recess 29a which receives a washer 30 and the burred-over head 31 of a rivet 32 serving to pivotally attach the rotary package-tray 22 in a manner as will more fully hereinafter appear.

Adjacent each of its rear corners the carrier-member 21 is perforated to receive one of two nails 33—33 or other suitable fasteners extending downwardly into the shelf 24. Arranged symmetrically around the boss 29 in the carrier-member 21 are three (more or less) roller-brackets 34 of substantially U-shaped form in cross section and secured to the upper surface of the carrier-member 21 by spot welding or by any other suitable means. Mounted between the upstanding arms of each of the roller-brackets 34 is a roller 35 turning upon a horizontal pivot-pin 36. Each pivot-pin 36 is supported at its respective opposite ends in the upstanding arms of its complemental roller-bracket 34 and is suitably riveted in place. It will be noted by reference to the drawing that each of the pivot-pins 36 is arranged radially with respect to the center of the boss 29 in the carrier-member 21.

The rivet 32 before referred to extends upwardly from the recess 29a in the carrier-member 21 through a spacing-sleeve 37 and thence through the apertured bottom of a boss 38 downwardly struck from the center of the rotary package-tray 22 before referred to and providing an upwardly-opening recess 38a. The upper head 39 of the rivet 32 is accommodated in the recess 38a just referred to so as to lie wholly below the upper surface of the package-tray 22. Preferably, and as shown, the package-tray 22 is formed with an annular rim 40 at its outer edge to guard

against the accidental displacement of packages such, for instance, as the packages indicated by broken lines in Fig. 2.

In installing the package holder the mounting-member **20** will preferably be first attached to the shelf such as **24** by means of the nails **26—26**. After the mounting-member has been attached as just described the carrier-member **21** may be inserted upon the upper surface of the body-portion **23** of the mounting-member and between the guide-flanges **27—27** thereof. The carrier-member **21** together with the package-tray **22** will preferably be slid rearwardly as far as the depth of the shelf **24** will permit after which the nails **33—33** may be put in place to not only lock the said carrier-member **21** against back and forth movement with respect to the mounting-member **20** but also to prevent the entire device from swinging vertically about the forward upper corner of the shelf **24** as a fulcrum.

In Figs. 1 and 3 the carrier-member **21** together with the package-tray **22** is shown by full lines in one position which the said parts may occupy for a given depth of shelf. In the same figures, namely, Figs. 1 and 3, the carrier-member **21** and the package-tray **22** carried thereby are shown by broken lines as shifted to conform to both a deeper and a narrower shelf than the shelf **24**.

If desired, the nails **33—33** or their equivalent may be omitted and the carrier-member **21** together with the package-tray **22** carried thereby may be left free for sliding movement back and forth with respect to the front edge of the shelf. If the nails **33—33** are omitted as just referred to, a nail or other suitable fastener may be passed through a perforation **41** in the rear edge of the mounting-member **20** and into the shelf. The user may, as will be obvious, readily rotate the package-tray **22** to bring to the front for ready access such packages as may at the time be at the rear portion of the package-tray **22**.

By means of the present invention the capacity of a pantry shelf or the like may be greatly increased and still make readily available the entire contents of the shelf without requiring that the user reach over packages at the front thereof. In this manner, in connection with high pantry shelves or the like, the hazard of requiring the user to mount a stepladder in order to locate and reach hidden packages, is avoided.

The invention may be carried out in other specific ways than those herein set forth without departing from the spirit and essential characteristics of the invention, and the present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive, and all changes coming within the meaning and equivalency range of the appended claim are intended to be embraced therein.

I claim:

A device of the class described comprising: a mounting-member having a plate-like body-portion provided at each of its respective opposite side edges with one of two opposed upwardly-and-inwardly turned guide-flanges, the said mounting-member also including a limiting-flange extending downwardly from the front edge of the plate-like body-portion into position to engage with the front edge of a shelf upon which the said body-portion rests; a plate-like carrier-member slidable upon the said plate-like mounting-member and having its respective opposite side edges slidably engaged with the guide-flanges of the said mounting-member; an annular series of rollers mounted upon the upper surface of the body-portion of the said carrier-member; and a rotary package holder pivoted to the body-portion of the said carrier-member at a point substantially central with respect to the center of the said annular series of rollers and resting upon the latter.

GEORGE D. WIEPERT.