Aug. 4, 1925. 1,548,138

R. W. GRIFFITH ET AL

DISPENSING CABINET FOR PAPER TOWELS

Filed Dec. 26, 1924

Fig. 1.

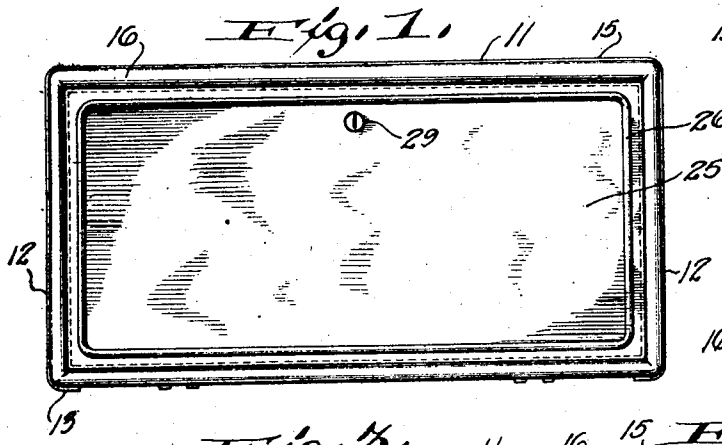


Fig. 2.

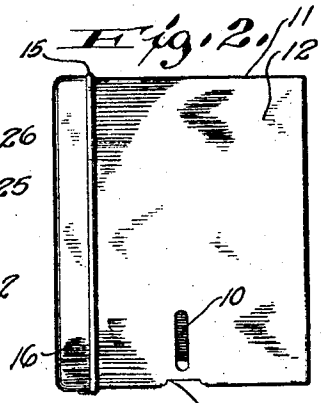


Fig. 3.

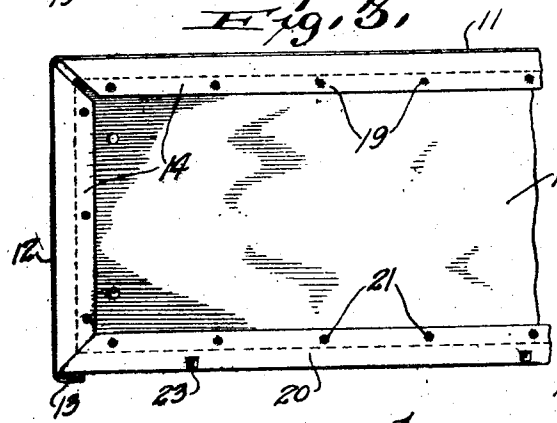


Fig. 4.

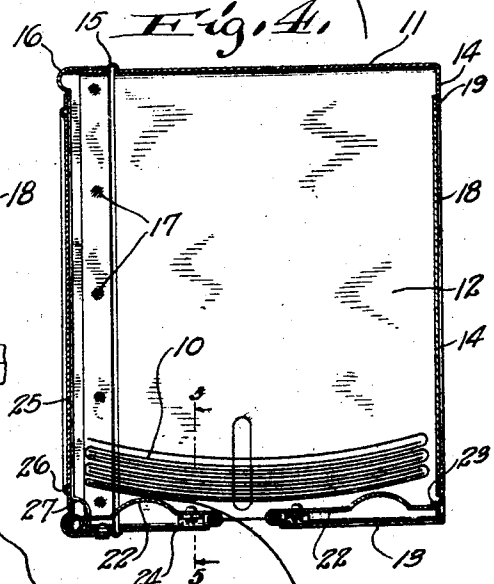


Fig. 5.

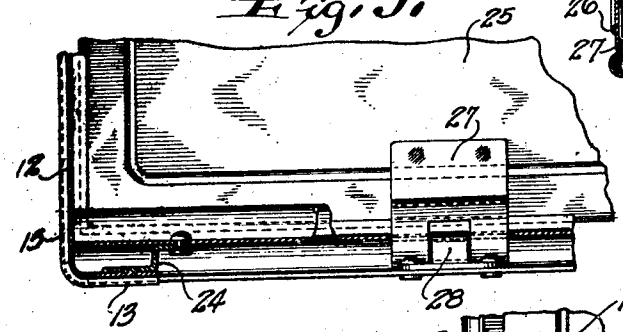


Fig. 6.

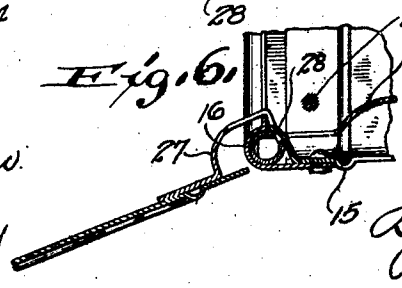
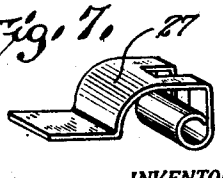


Fig. 7.



WITNESSES

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UNITED STATES PATENT OFFICE.

RAYMOND W. GRIFFITH AND SAMUEL N. HOPE, OF MILWAUKEE, WISCONSIN, ASSIGNORS TO GRIFFITH-HOPE COMPANY, OF MILWAUKEE, WISCONSIN, A CORPORATION OF WISCONSIN.

DISPENSING CABINET FOR PAPER TOWELS.

Application filed December 26, 1924. Serial No. 758,246.

To all whom it may concern:

Be it known that we, RAYMOND W. GRIFFITH and SAMUEL N. HOPE, both citizens of the United States, and residents of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Dispensing Cabinets for Paper Towels, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention has for its object to provide a sheet metal dispensing cabinet for paper towels and the like, which will be inexpensive to manufacture and will still present an ornamental appearance.

Another object of the invention is to perfect details of construction, to economize in the cost of manufacture without sacrificing strength and durability and neat and attractive appearance.

With the above and other objects in view the invention consists in the sheet metal dispensing cabinet for paper towels as herein claimed and all equivalents.

Referring to the accompanying drawings, in which like characters of reference indicate the same parts in different views,

Fig. 1 is a front view of a cabinet constructed in accordance with this invention;

Fig. 2 is an end view thereof;

Fig. 3 is a rear view;

Fig. 4 is a transverse sectional view;

Fig. 5 is a sectional view of a corner on the plane of line 5—5 of Fig. 4;

Fig. 6 is a sectional view of one of the door hinges, and

Fig. 7 is a perspective view of the hinge member.

In these drawings the cabinet is shown as consisting of a rectangular box-like container for holding a stack of folded paper towels 10 or the like, there being the usual slot in the bottom of the cabinet through which the lowermost towel projects so that it may be withdrawn from the cabinet and, in doing so, expose the end of the next paper towel.

The cabinet proper consists of a strip of sheet metal bent to form a cabinet top 11 and cabinet ends 12, the ends of said strip being turned under to form flanges 13. The strip is somewhat wider than the depth of the cabinet to afford back flanges 14 bent inwardly at right angles to the strip, as seen in Fig. 3. Before bending the strip it is pressed to form a bead 15 a short distance from its front edge, which, besides having an ornamental value, constitutes a shoulder against which fits the edge of a door frame 16. The door frame is formed from a flat rectangular sheet of metal by pressing it to the beaded rectangular form, as shown in Figs. 1 and 4, and by drawing the edges thereof back at right angles to the plane of the sheet and by stamping a rectangular opening therein, shown by dotted lines in Fig. 1. The rearwardly extending edges then constitute a continuous flange, which is telescoped over the edge of the strip forming the cabinet top 11 and ends 12 and is secured thereto preferably by spot welding at points 17. The piece 18, which was stamped from the plate to form the opening in the door frame is utilized as the back of the cabinet by fitting it against the flanges 14 and securing it thereto preferably by spot welding at points 19. A piece of sheet metal bent to an angular form 20 is spot welded to the back plate 18 at points 21 to complete the lower rear corner of the cabinet.

Bottom sections 22 of sheet metal are secured in place and spaced apart to form the slot between them, their edges bordering the slot being wired to form smooth rounded surfaces over which the paper may readily pass. The front bottom section 22 has a downwardly extending flange fitting in the bead of the door frame, as shown in Fig. 4, while the rear bottom section has a similar flange bearing on the angle strip 20 and held in place by lugs 23 cut from the back of said angle strip. Both bottom sections are secured in place by being riveted to angle brackets 24, which project from and are preferably spot welded to the flanges 13, as seen in Fig. 5. Preferably the two bottom sections are arched, as shown in Fig. 4, to hold the paper well above the edges of the opening and so facilitate the removal of the paper towels.

A door panel 25, also of sheet metal and preferably pressed to form an ornamental bead 26, is hinged to the door frame 16 by disappearing hinges consisting of small sheet metal plates 27 spot welded to the door and bent away therefrom, as seen in Fig. 6, and then angularly bent to clear the flange

of the door frame and then bent to form a cylinder fitting within the bead of the door frame, the front bottom section 22 being cut away sufficiently to admit the hinge plate. Through an opening cut in the angularly bent portion of the hinge member 27 a tongue 28 of sheet metal projects to bear on the cylindrical pintle portion of the hinge member in all positions of the door and to hold said cylindrical portion of the hinge member in its bearing within the bead of the door frame, said tongue being secured to the door frame as by riveting it to the bottom flange thereof, as shown. In this manner the door is pivotally mounted so as to swing on disappearing hinges at its lower edge without the scraping of parts that would in time remove the finish from the article and impair its appearance. The door is preferably provided with a lock 29 as usual.

By constructing the cabinet in accordance with this invention light, inexpensive material may be used and still provide a strong and durable structure, but, particularly, ornamentation is possible without materially adding to the cost as above pointed out, making a more attractive and more efficient device for the purpose.

What we claim as new and desire to secure by Letters Patent is:

1. A dispensing cabinet for paper towels and the like comprising a box-like container having ends and top formed of a single strip of sheet metal bent to form rear flanges, a door frame formed of a single plate of sheet metal drawn to form rearwardly extending flanges along the top and bottom and ends for engaging the edges of said single strip and secured thereto, a back plate secured to the flanges of said single strip, a door hinged to the door frame, and a slotted bottom for said container.

2. A dispensing cabinet for paper towels and the like comprising a box-like container formed of a single strip of sheet metal bent to produce the top and ends of the container with back flanges, a door frame consisting of a single plate of sheet metal drawn to produce rearwardly extending flanges along its edges secured to the edges of the single strip, a back-plate secured to the back flanges, a door hinged to the door frame, bottom flanges formed on the ends of the single strip, and a slotted bottom secured to said bottom flanges.

3. A dispensing cabinet for paper towels and the like comprising a box-like container of sheet metal including a single strip bent to form top and ends of the container with back flanges and bottom flanges, a door frame of a single plate of sheet metal with its edges turned rearwardly to form a continuous flange fitting the edges of the strip and secured thereto, a door hinged to the door frame, a back plate secured to the back flanges, and a slotted bottom secured to the bottom flanges.

4. A dispensing cabinet for paper towels and the like comprising a sheet metal box-like container including a single strip of sheet metal bent to form a beaded top and ends with back flanges and bottom flanges, a pressed metal door frame forming a flanged and beaded door opening with a continuous rearwardly extending flange fitting upon the edges of the single strip and against the flange thereof, a door hinged to the door frame, a back secured to the back flanges, and a slotted bottom secured to the bottom flanges.

5. In a sheet metal dispensing cabinet for paper towels and the like, a pressed sheet metal door frame forming a door flange surrounded by a bead with its edges extending rearwardly to form a flange, a sheet metal door fitting against the door flange and having hinge connection with the door frame consisting of a strip of sheet metal secured to the door and bent to form an arch clearing the door flange of the door frame and terminating in a cylindrical bend forming a pintle fitting in the bead of the door frame, and a tongue of sheet metal secured to the other flange of the door frame and passing through an opening in the arch of the hinge member and bearing on the cylindrical pintle formation thereof for holding it in its bearing seat in said bead.

6. In a dispensing cabinet for paper towels and the like, a sheet metal box-like container comprising a strip of sheet metal bent to form top and ends with bottom flanges and back flanges, a beaded door frame with rearwardly extending flanges engaging the edges of the strip and secured thereto, a door mounted in a door frame, a back plate secured to the back flanges, an angle strip secured to the back plate and extending along the bottom thereof, and spaced bottom sections forming the slotted bottom of the container comprising sheet metal strips with angularly bent edges fitting in the bead of the door frame and on the angle strip respectively, lugs bent out from the angle strip bearing on the top of the bottom section, and angle lugs secured to the bottom flanges and supporting the bottom sections.

In testimony whereof, we affix our signatures.

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SAMUEL N. HOPE.