Dec. 1, 1931. P. A. McCASKEY 1,833,999

PACKAGE

Filed Jan. 29, 1930

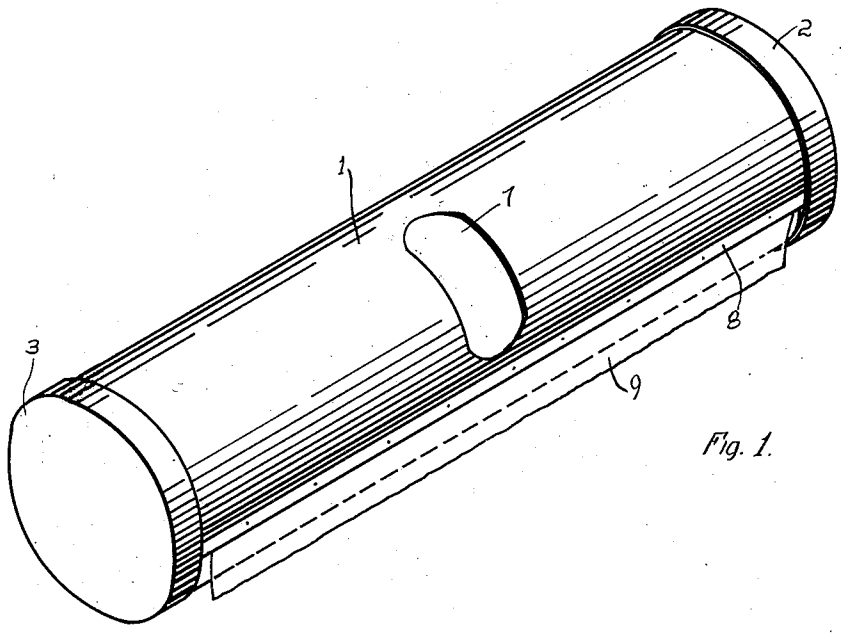


Fig. 1.

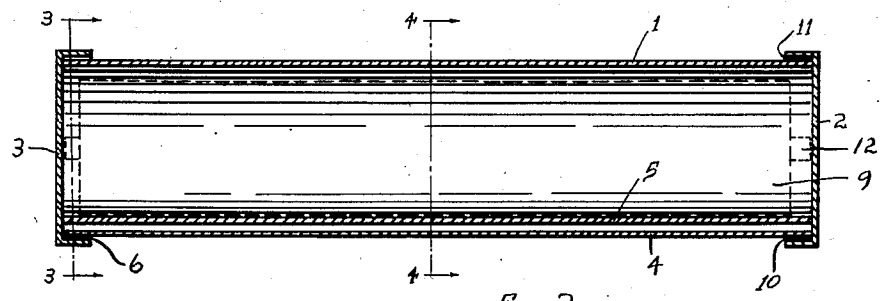


Fig. 2.

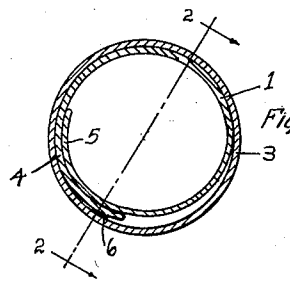


Fig. 3.

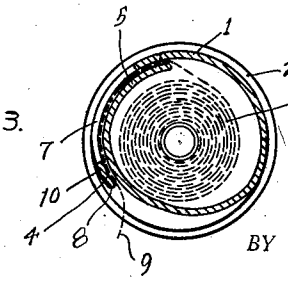


Fig. 4.

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UNITED STATES PATENT OFFICE

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PACKAGE

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This invention relates to a package for containing paper in rolls, such, for example, as wrapping paper or waxed paper employed in homes or restaurants or similar places for wrapping lunches and for analogous uses.

One object of the invention is to provide an efficient and sanitary package which will be simple in construction, yet durable, and very economical of manufacture and which, by reason of its cheapness, may be used once and discarded, or because of its durability, may be used a plurality of times as will hereinafter appear. A more specific object is to provide such a device from which the paper may be easily fed by holding the device in one hand and pushing the paper outwardly through a delivery slot by the use of the thumb which may engage the paper through an opening provided in the container wall for that purpose. Another object is that of maintaining the roll centralized within the container so as to insure its easy extrusion through the aforesaid slot by extending the ends of the core beyond the roll of paper so that they may engage the end walls or caps. Further objects will appear as the description proceeds.

I will now describe my improved package having reference to the accompanying drawings in which Fig. 1 is a perspective view of my improved package showing an end of a strip from a roll of paper, which is positioned therein, protruding through the delivery slot; Fig. 2 is a longitudinal section corresponding substantially to the line 2—2 of Fig. 3 and showing the walls exaggerated in thickness for clarity of illustration; Fig. 3 is a section on line 3—3 of Fig. 2; Fig. 4 is a section on line 4—4 of Fig. 2. Figs. 3 and 4 show the wall thicknesses and the deviation from circular of the spiral main wall exaggerated for clearness of illustration.

My improved package comprises a spiral wall 1 having its straight edges 4 and 5 overlapping each other, having a metallic facing strip 8 on the outer overlapping edge 4 and a finger opening 7 also in the outer overlapping portion and two end caps 2 and 3 cemented as shown at 6 and 10 to the outer overlapping portion preferably for a short distance only. A roll of paper 9 is adapted to be positioned in and enveloped by the wall 1 and have an end thereof project outwardly between the inner and outer overlapping portions as shown in Fig. 1. The metal facing strip 8 is not essential but is desirable in case the material used be soft such as a soft cardboard. This facing strip may extend all the way to the ends of the straight edge 4 or may terminate short of the annular flanges of the end caps, as shown in Fig. 1.

In practice I prefer to coat the inner surface of the flange of at least one of the end caps with gum so that if it is desired to remove such cap for the purpose of placing another roll of paper in the container, the same can be replaced simply by moistening another small area and attaching same to the outer overlapping portion 4 near the longitudinal edge therof. The finger opening 7 extends from a point near the facing strip 8 upwardly a sufficient distance to permit of the insertion and limited movement of the thumb. When the container is grasped by the hand the thumb may be slid down along the slot 7 with a very natural movement thereby to project the end of the paper from the delivery slot so that said end may be taken hold of by the other hand and the desired length of paper drawn out. Now by contracting the container and thus holding the roll, said length of paper may be severed from the roll along the strip 8.

I may coat the flange of only one of the end caps interiorly to provide for refilling the device, or I may coat both of them which would render possible a greater number of refilling operations.

In the drawings I have shown the walls attached at 6 and 10 and have shown the gum on the inner surface of end cap 2 only, at 10 and at 11, the showing at 11 consisting merely in a thickening of a line. I wish it to be understood that I am not limited to the construction whereby only one of the end caps is gummed merely because such a construction has been illustrated but that I may provide both caps with an inner coating if desired.

In order to keep the roll longitudinally central within the container and thus proper-

ly guide the free end of the paper through the delivery slot, I extend the ends of the core 12 on which the paper is wound beyond the ends of the roll a distance substantially equal to the depth of the caps 2 and 3 so that said ends may engage the caps.

It will be understood that when the container is relaxed the free end of the paper is held between the overlapping portions or edges 4 and 5, due to the resiliency of the wall 1, with sufficient pressure to prevent its being retracted into and "lost" within the interior of the container.

For the purpose of this specification the term convolution means one turn of a spiral. If the wall 1 were flattened out it would have four straight edges but when it is formed into a spiral two of said edges 4 and 5 only remain straight and two of them are curved. It is in this sense that the overlapping portions 4 and 5 are termed straight edges.

Having thus described my invention, what I claim is:

1. A resilient sheet formed into a spiral and having two curved edges and two straight edges, one of said straight edges overlapping the other for a material part of a convolution, two end caps each comprising a circular end wall and a cylindrical, upstanding flange integral and concentric therewith, said end caps fitting snugly over the ends of said spiral and retaining the spiral formation of said resilient sheet against its tendency to unwind, the said outer straight edge being provided with a facing strip, a finger opening in said sheet spaced from the said outer straight edge, each of said flanges being gummed over its entire inner surface and a comparatively small portion only of the area thereof being attached to the portion of said sheet which is within said cap, such area being adjacent said outer straight edge, said inner straight edge tending to bear against said sheet in the region of the outer straight edge.

2. A resilient sheet formed into a spiral and having two curved edges and two straight edges, one of said straight edges overlapping the other, two end caps, each including an upstanding flange, said end caps fitting over the ends of said spiral, a small portion only of the area of said flanges being attached to the portion of said sheet which is within said cap.

3. A resilient sheet formed into a spiral and having two curved edges and two straight edges, one of said straight edges overlapping the other, two end caps, each including an upstanding flange, said end caps fitting over the ends of said spiral, a small portion only of the area of said flanges being attached to the portion of said sheet which is within said cap, such small portion being adjacent the outer said straight edge.

4. A resilient sheet formed into a spiral and having two curved edges and two straight edges, one of said straight edges overlapping the other, two end caps, each including an upstanding flange, said end caps fitting over the ends of said spiral, a small portion only of the area of said flanges being attached to the portion of said sheet which is within said cap, at least one of said flanges being gummed entirely around its inner surface.

5. A resilient sheet formed into a spiral and having two curved edges and two straight edges, one of said straight edges overlapping the other, two end caps each including an upstanding flange, said end caps fitting over the ends of said spiral, a small portion only of the area of said flanges being attached to the portion of said sheet which is within said cap, there being a finger opening in said sheet extending from a point near the outer said straight edge to a point adjacent the inner said straight edge.

In testimony whereof, I hereunto affix my signature.

PERRY A. McCASKEY.