Oct. 4, 1938. M. MEZOFF 2,132,177

DISPENSING DEVICE FOR ROLL PAPER

Filed April 7, 1936 2 Sheets-Sheet 1

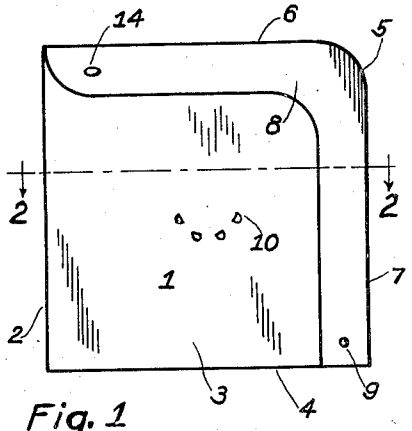


Fig. 1

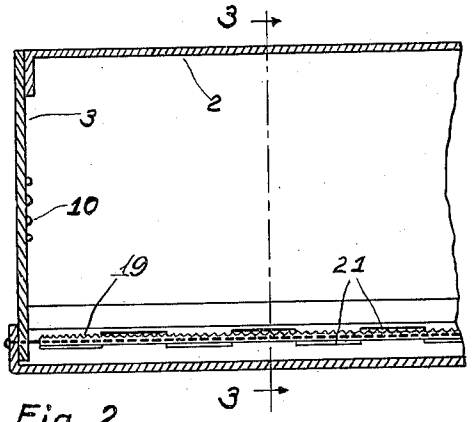


Fig. 2

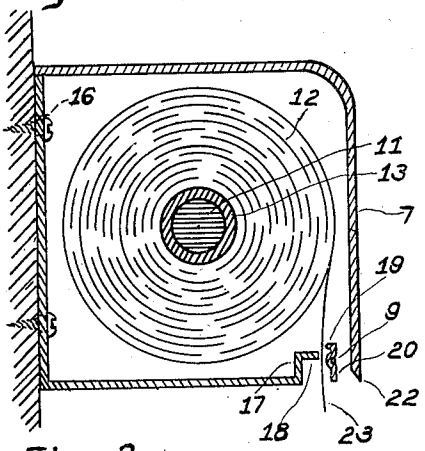


Fig. 3

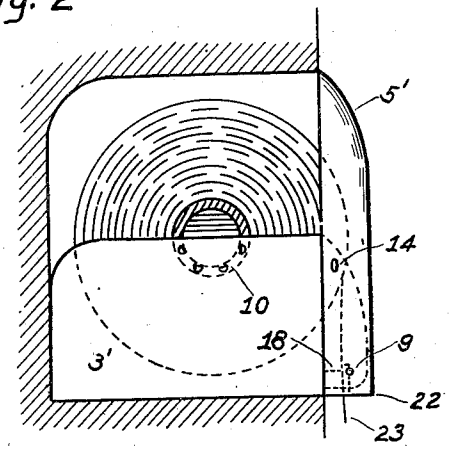


Fig 6

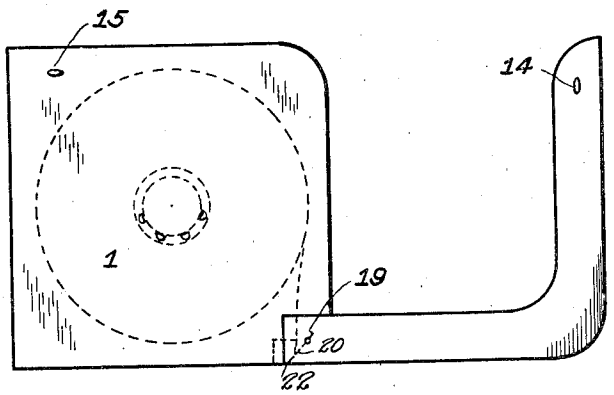


Fig 4

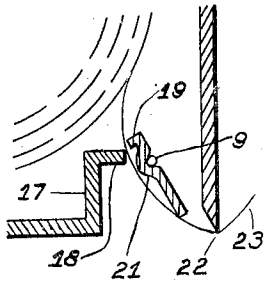


Fig. 5

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DISPENSING DEVICE FOR ROLL PAPER

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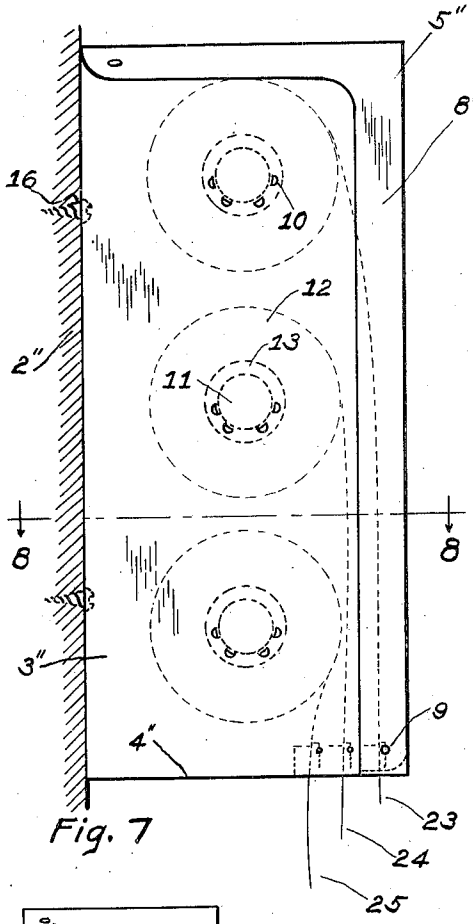
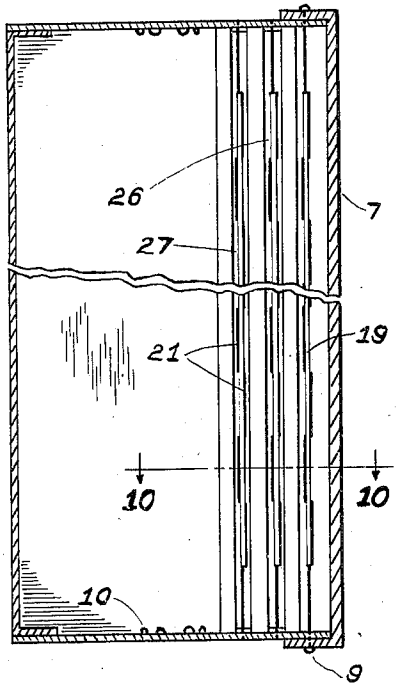


Fig. 7

Fig. 8



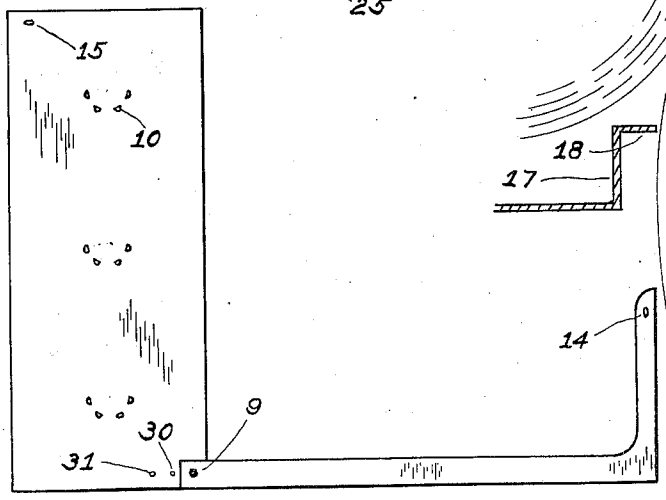


Fig. 9

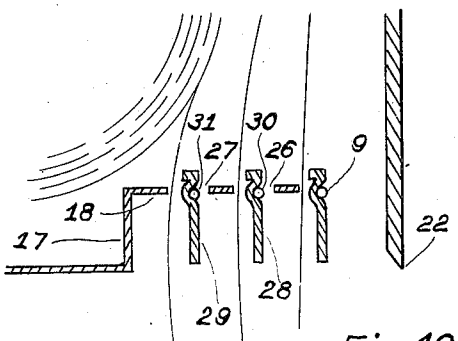


Fig. 10

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Patented Oct. 4, 1938 2,132,177

UNITED STATES PATENT OFFICE

2,132,177

DISPENSING DEVICE FOR ROLL PAPER

Milton Mezoff, Boston, Mass., assignor to Patent Products Corporation, Boston, Mass.

Application April 7, 1936, Serial No. 73,128

4 Claims. (Cl. 242—55.5)

This invention relates to an improved device for holding and dispensing paper in roll form. Such devices, in the form of permanent fixtures, are useful for dispensing wax paper, wrapping paper, or paper towels in roll form.

An object of the invention is to provide a device in which the end of the web of the roll of paper in the holder is at all times removed from and somewhat beyond the cutting member to facilitate the removal of the succeeding portion of the web.

Another object of the invention is to provide a device which will permit the removal, without restraint, of a desired portion of the web, but will prevent further unwinding of the roll when the web is being cut.

Another object of the invention is to provide a device in which several rolls can be inserted and the webs of which can be cut on the same cutting element without interference.

A further object of the invention is to provide a device in which new rolls of paper can be inserted with little effort.

Still another object of the invention is to provide a device which is sanitary, simple of construction, inexpensive to manufacture and of attractive appearance.

Other objects and advantages will appear from the following description and drawings, in which drawings:

Fig. 1 is a side elevation of a device embodying the invention.

Fig. 2 is a fragmentary longitudinal sectional view taken at the line 2—2, Fig. 1.

Fig. 3 is a transverse sectional view taken in the plane of the line 3—3, Fig. 2.

Fig. 4 is a side elevation of the device in open position.

Fig. 5 is an enlarged view of the braking and cutting mechanism with brake in closed position.

Fig. 6 is a side elevation of an embodiment of the invention suitable for insertion in a wall recess.

Fig. 7 is a side elevation of a holder for three rolls.

Fig. 8 is a longitudinal sectional view at the line 8—8, Fig. 7.

Fig. 9 is a view of the device of Fig. 7 opened to receive or remove rolls of paper.

Fig. 10 is an enlarged view of the braking mechanisms of the device of Fig. 8, taken at the line 10—10.

Referring to the drawings, 1 designates a substantially rectangular case or container made of sheet metal or other suitable material and consisting of a back 2, side panels 3, and a bottom 4. A cover 5 for the case consists of a top 6, a front portion 7, and flanges 8 to overlap the side panels. The cover is pivotally attached to the case by a rod 9 passing through the lower front corners of the side panels and the flanges of the cover. The side panels 3 are provided with projections 10 formed by punching material of the side panels inwardly and arranged semicircularly to act as a bearing for a spindle 11 or other supporting means for a roll of paper 12. Projecting the core 13 beyond the ends of the roll may be a possible method of eliminating a spindle. If desired the projections 10 may be omitted and the roll of paper allowed to rest on the bottom of the container. To fasten the cover securely to the case, both are provided with embossments 14 and 15 situated to engage when the container is closed. The back 2 of the case has openings 16 for the admission of fastening means for attachment to a suitable support.

The front end of the bottom has an upturned portion 17 and a forwardly turned portion 18. Coacting with the part 18 is the upper edge 19 of a lever 20 which is pivotally attached to the rod 9. As shown in the drawings of the preferred embodiment of the invention the lever 20 consists of a thin strip of material having the upper edge 19 bent parallel to the part 18 and provided with alternating indentations 21 with side openings capable of admitting the rod 9. The edge 19 may be serrated if desired. The bottom of the front of the cover is sharpened to provide a cutting edge 22. Other means for providing a cutting edge on or apart from the cover may be employed, and, if desired, the edge may be serrated or otherwise modified.

Fig. 6 depicts an embodiment of the invention which may be inserted in a recess in a wall. In this instance it is possible to eliminate the back and upper halves of the side panels 3' of the case and the top section of the cover 5'. The case may be secured in the recess by adhesive material or other means of attachment.

Figs. 7 to 10 present a form of the invention wherein several rolls of paper may be inserted in the container, the arrangement of parts being such that any desired web may be cut independently of the others on the common cutting edge. In the present instance, the device shown is capable of holding three rolls of paper. The container consists of sides 3'', a back 2'', a bottom 4'' and a cover 5'' provided with flanges 8''.

As will be seen from the drawings, the device is similar to that of Figs. 1 to 5 with the exception that suitable provision is made to take care of the two additional webs 24 and 25; two additional transverse slots 26 and 27 are cut in the bottom, and levers 28 and 29 are attached to rods 30 and 31 located in the respective slots and passing through the side panels. The levers 20, 28 and 29 may be of equal vertical lengths or may be graduated so that the hindmost, that is 29, is the longest.

In use the container is opened by pulling the cover forward about its pivot as far as it will go and exposing the inside of the case completely to permit the insertion of a roll of paper on a spindle with the ends of the spindle journalled in the bearings. The spindle should fit snugly in the roll and in the bearings in order that a slight degree of friction be present to prevent undue turning of the roll. A similar result may be attained by a spring leaf, or similar element, pressing on the roll. The arrangement of the cover and case is such that when the cover is in open position the lever 20 is turned by the cutting edge 22 to increase the space between the edge 18 and the upper edge 19 of the lever, thus facilitating the insertion of the end of a web 23. Insertion of the web is also facilitated by first cutting the end of the web at an oblique angle with the lateral sides of the web and then inserting the pointed side first.

The container can now be closed and sections of paper removed by pulling the end of the web down until a desired length is exposed and then pulling forward to force the edge 19 toward the edge 18, the lever thus acting as a braking mechanism on the web to hold the paper while it is being brought against the cutting edge 22. This condition is shown in Fig. 5. On severing the paper by an upward movement against the cutting edge, the cut end of the web 23 assumes the position shown in Fig. 3, that is, the end is away from and somewhat below the cutting edge so that it may be readily grasped for the removal of the succeeding portion of paper. The lateral distance of the lever from the cutting edge determines the amount of web which will be exposed.

It is sometimes desirable to be able to determine the extent of exhaustion of a roll of paper without necessitating the opening of the container. This may be accomplished by enlarging one of the openings in the side panels resulting from the formation of the projections 10. Also, by coloring the edges of the windings of the roll near the core, visible evidence will be produced when the roll nears a state of exhaustion.

When using the device of Figs. 7 to 10, the webs are arranged in the manner shown in Fig. 7; the web of the bottom roll passing through the hindmost slot and the web of the top roll through the foremost slot. In this embodiment of the invention, an advantage of the arrangement of parts of the container and materials to be dispensed is that at all times the ends of the webs are kept apart and at constantly varying levels permitting the desired paper to be readily grasped and drawn across the cutting edge without interference from the other webs.

It will be apparent that numerous modifications well within the scope of the invention are possible, and no unnecessary limitations should be understood from the foregoing detailed description.

I claim:

1. A dispensing device for roll paper comprising a container, supports in the end walls of the container for the spindle or core of a roll of paper, said container having a transverse slot in the bottom, a rod passing through the lower front corners of the end walls of the container, a lever mounted on said rod and coacting with one side of said slot, a cover provided with a cutting edge pivotally attached to the ends of said rod, said cover when rotated about said rod being capable of turning the lever, the cutting edge on the cover contacting the lever.

2. A dispensing device for roll paper comprising a container, means for attaching the container to a support, bearings in the end walls of the container formed by inwardly projecting portions of the end walls in the form of semicircles, a rod passing through the lower front corners of the end walls of the container, a cover pivotally attached to the ends of said rod, a transverse slot between the bottom of the container and the cover, a lever pivotally mounted on said rod, the upper edge of said lever coacting with the edge of the bottom of the container to provide a means for arresting the outward movement of a paper web when the web is being cut, a cutting edge on the bottom of the cover, said cover when rotated about said rod being capable of turning the lever, the cutting edge on the cover contacting the lever.

3. A dispensing device for rolls of paper comprising a container, a cover for the container, transverse slots in the bottom of the container, braking means in said slots, a cutting edge on the bottom of the cover and so related to the braking means that the cut ends of the webs are unequally exposed at all times and capable of being cut independently on the said cutting edge, and supports in the end walls for the spindles or cores of rolls of paper.

4. A dispensing device for rolls of paper comprising a container, supports in the end walls formed by inwardly projecting portions of the end walls in the form of semicircles, said container having transverse slots in its bottom, rods located in the slots and passing through the end walls of the container, a cover pivotally attached to the ends of the foremost rod, levers mounted on the rods and coacting with one side of the slots, and a cutting edge separate from said levers and so disposed as to enable independent cutting of the ends of the webs of rolls of paper.

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