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WAX ROLL HOLDER

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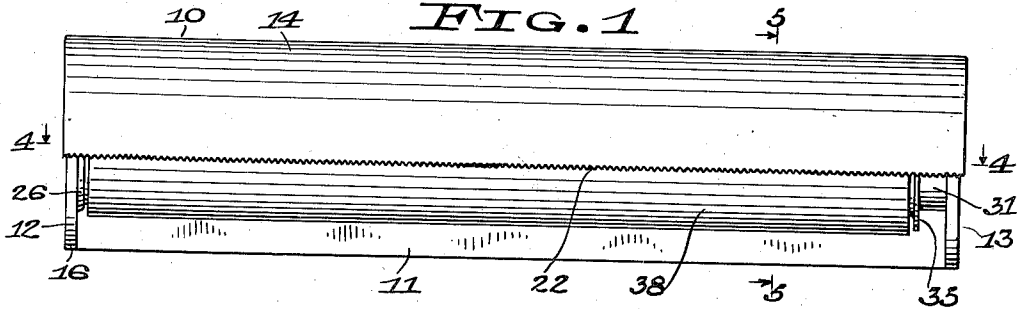


FIG. 2

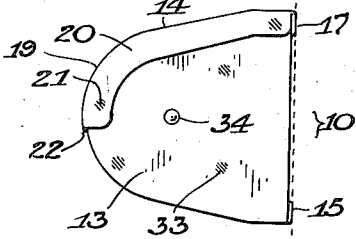


FIG. 3

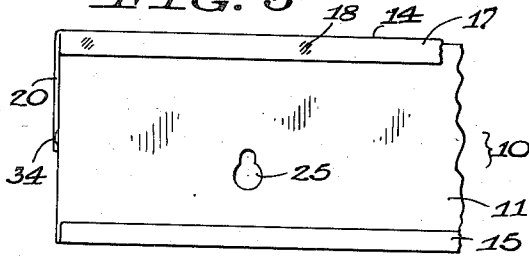


FIG. 4

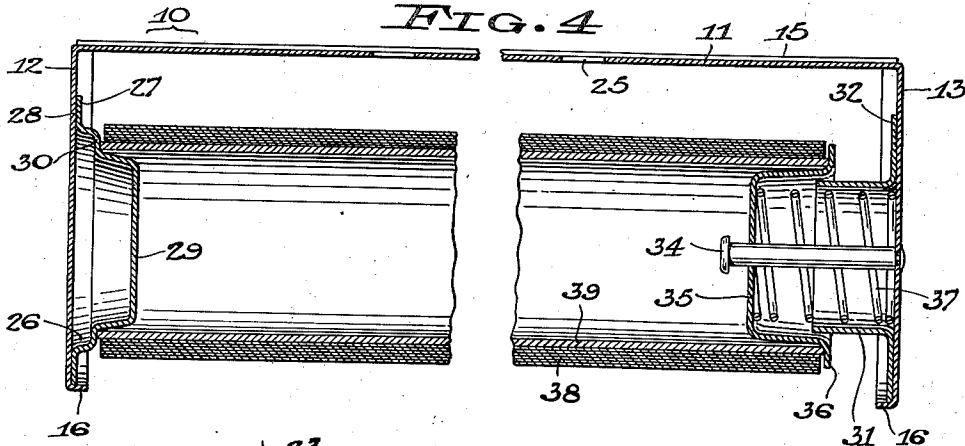
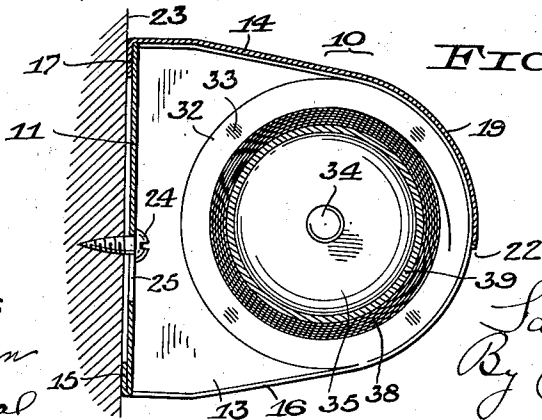


FIG. 5



WITNESSES

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## WAX ROLL HOLDER

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3 Claims. (Cl. 242—55.5)

The invention relates to holders for sheet material in roll form, and has for an object to provide a simple, durable and inexpensive holder for dispensing wax paper or other sheet material from a roll.

Another object of the invention is to provide a roll holder which can be easily loaded and which will insure square cutting of the sheet material.

The invention further consists in the several features hereinafter described and claimed.

In the accompanying drawing, illustrating a specific embodiment of the invention,

Fig. 1 is a front elevation of a wax roll holder constructed in accordance with the invention;

Fig. 2 is an end elevation of the holder;

Fig. 3 is a rear elevation of the holder;

Fig. 4 is a sectional view taken generally along the line 4—4 of Fig. 1, and

Fig. 5 is a sectional view taken on the line 5—5 of Fig. 1.

In the drawing, 10 designates a supporting body, here shown in the form of a housing or casing having a rear wall 11, opposite end walls 12 and 13, and a top wall 14, the bottom of the casing being open. The rear wall 11 and end walls 12 and 13 are preferably formed from one sheet metal blank, the end walls being bent at right-angles to the rear wall. The lower portion of the rear wall is doubled at 15 to form a strong rounded edge. Each end wall has a rounded front portion and is provided with an intumed marginal flange 16 which extends to the rear wall 11. The top wall 14 is formed from another sheet metal blank, and has a downturned rear flange 17 which overlaps the upper portion of the rear wall 11 and is secured thereto in any suitable manner, as by spot-welding 18. The top wall rests on the flanged upper edges of the end walls 12 and 13 and has a downwardly curved front portion which fits over the rounded front edge portions of the end walls. The opposite ends of the top wall have downturned flanges 20 which overlap the end walls 12 and 13 and are secured thereto in any suitable manner, as by spot-welding 21. The downwardly curved front portion 19 of the top wall has a cutting edge 22 which is preferably serrated. The casing above described is secured to a building wall 23 or other support in any suitable manner, as by screws 24 passing through keyhole slots 25 in the rear wall 11.

A cup-like sheet metal roll-supporting member 26 has an outturned flat rim 27 secured, as by spot-welding 28, to the inner face of the end

wall 12, the circular edge of the rim fitting within the arcuate marginal flange 16 of the end wall. The member 26 has an embossment or hub 29 with tapered side walls, and an annular shoulder 30.

A tubular sheet metal member 31 has an outturned flat rim 32 secured, as by spot-welding 33, to the inner face of the end wall 13, the circular edge of the rim fitting within the arcuate marginal flange 16 of the end wall. A headed guide pin 34 extends inwardly of the end wall 13 and centrally of the tubular member 31 and is riveted to this end wall. A cup-shaped sheet metal roll-supporting member 35 is centrally apertured to slide on the guide pin 34 and to telescope over the tubular member 31, and has an outturned rim flange 36. The movable roll-supporting member 35 is axially aligned with the opposite stationary roll-supporting member 26 and is urged toward the latter member by a compressed coiled spring 37 disposed within the tubular member 31 and surrounding the pin 34, the head of the pin limiting the movement of the roll-supporting member 35 away from the end wall 13. The roll-supporting member 35 has a loose sliding fit on the pin 34 and is capable of a limited tilting movement. This roll-supporting member may also rotate on the pin, although its rotation is resisted by its frictional engagement with the spring 37. The tubular member 31 houses and guides the coiled spring 37.

The intumed marginal flanges 16 of the end walls not only stiffen the end walls and avoid raw edges, but also serve to accurately position the sheet metal members 26 and 32 in readiness for the welding operations, the circular rim portions of these members fitting within and engaging the arcuate portions of the flanges and the raw front and bottom edges of the rim portions being concealed by the flanges.

The roll-supporting members 26 and 35 are adapted to receive thereon the opposite ends of a roll 38 of sheet material to be dispensed, such as wax paper. The roll is here shown to be provided with a tubular core 39 of paper or other suitable material. One end of the roll engages the annular shoulder 30 of the member 26, and the other end engages the rim flange 36 of the movable member 35. The member 35 is urged into engagement with the end of the roll by the coiled spring 37, which thereby urges the other end of the roll into frictional engagement with the annular shoulder 30 of the member 26. The top wall of the casing not only ties the rear wall and end walls rigidly together to resist the spring

action and other deforming forces, but also forms a hood to prevent dust from settling on the roll. The serrated cutting edge of the holder is spaced well above the bottom of the roll, being near the horizontal axial plane of the roll, so as to avoid injury to the fingers during the manipulation of the roll, as hereinafter described.

To load the holder, a roll of wax paper is grasped at an intermediate portion with one hand and is pushed lengthwise onto the spring-pressed roll-supporting member 35 which is thereby displaced, the roll then being in an angular position with respect to the holder. With the roll-supporting member 35 thus displaced against the action of the spring 37, the other end of the roll is swung inwardly and upwardly into register with the roll-supporting member 26. The manual pressure on the roll is then released, and the spring 37 forces the roll onto the roll-supporting member 26. The roll is installed in such manner that the loose end of the paper is adjacent the front of the holder, as indicated in Fig. 5. The removal of the core of an exhausted roll is equally simple, and can be effected with one hand. Although the paper rolls may vary somewhat in length, they will readily be accommodated on the holder. The tiltable mounting of the slidable, spring-pressed, roll-supporting member 25 on the guide pin 34 facilitates the application of the roll to the holder and equalizes the pressure engagement of this member about the end of the roll. When the roll is mounted on the holder the bearing of the roll-supporting member on the guide pin lies within the end of the roll.

When paper is to be dispensed, the user rotates the mounted roll a partial revolution in a clockwise direction, as viewed in Fig. 5, in order to provide a projecting paper end. This rotation is effected by engaging the fingers of one hand with the bottom of the roll and pushing inwardly, the palm and thumb being up. The projecting paper end is then grasped between the thumb and fingers of the same hand and is drawn out the desired distance to unwind a length of the paper, whereupon the paper is lifted into engagement with the serrated cutting edge 22 to sever a section of the paper, the cutting beginning at one edge of the paper and progressing to the other edge. The friction imposed on the spring-pressed roll holds the roll stationary to insure square cutting of the paper.

While the roll holder is preferably mounted with its rear wall substantially vertical and with the roll substantially horizontal, as shown, it is also possible to mount the holder in various other positions.

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

1. A holder for a roll of sheet material, comprising a sheet metal casing having a rear wall and opposite end walls and a hood-forming top wall connecting said rear wall and end walls, said top wall having a downwardly projecting portion with a sheet-cutting edge, and said end

walls each having an inturned marginal flange, a cup-shaped sheet metal roll-supporting member having an outwardly flanged rim portion secured to the inner face of one of said end walls, a tubular sheet metal member having an outwardly flanged rim portion secured to the inner face of the other end wall, the edges of said outwardly flanged rim portions fitting within the respective inturned marginal flanges of said end walls, a headed pin secured to said last-named end wall and extending centrally within said tubular member, a centrally apertured cup-shaped roll-supporting member slidable on said pin and having an outturned roll-engaging flange, said last-named roll-supporting member telescopically fitting over said tubular member, and a coiled spring surrounding said pin and disposed within said tubular member for urging said movable roll-supporting member toward said opposite roll-supporting member and for holding the roll between and on said supporting members, said movable roll-supporting member being displaceable against the action of its spring a sufficient distance to admit the roll between said roll-supporting members.

2. A holder for a roll of sheet material, comprising a sheet metal casing having opposed end walls and a connecting wall rigidly secured to said end walls, at least one of said end walls having an inturned marginal flange, and roll-supporting means on the respective end walls and including a part having a substantially flat outwardly flanged rim portion rigidly secured to the inner face of said marginally flanged end wall, the edge of said rim portion fitting within and engaging the inturned marginal flange of said end wall.

3. A holder for a roll of sheet material, comprising a supporting body having spaced supporting portions one of which has a projection to rotatably receive thereon one end of the roll, the other supporting portion including an end wall having an inturned marginal flange, a tubular sheet metal member having an outwardly flanged rim portion secured to the inner face of the flanged end wall, the edge of said outwardly flanged rim portion fitting within the inturned marginal flange of said end wall, a pin rigidly secured to said end wall and extending centrally within said tubular member, a centrally apertured cup-shaped roll-supporting member slidable on said pin and having an outturned roll-engaging flange, said roll-supporting member telescopically fitting over said tubular member, and a coiled spring surrounding said pin and disposed within said tubular member for urging said movable roll-supporting member toward said projection and for holding the roll between and on said roll-supporting member and projection, said movable roll-supporting member being displaceable against the action of its spring a sufficient distance to admit the roll between said roll-supporting member and projection.

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