

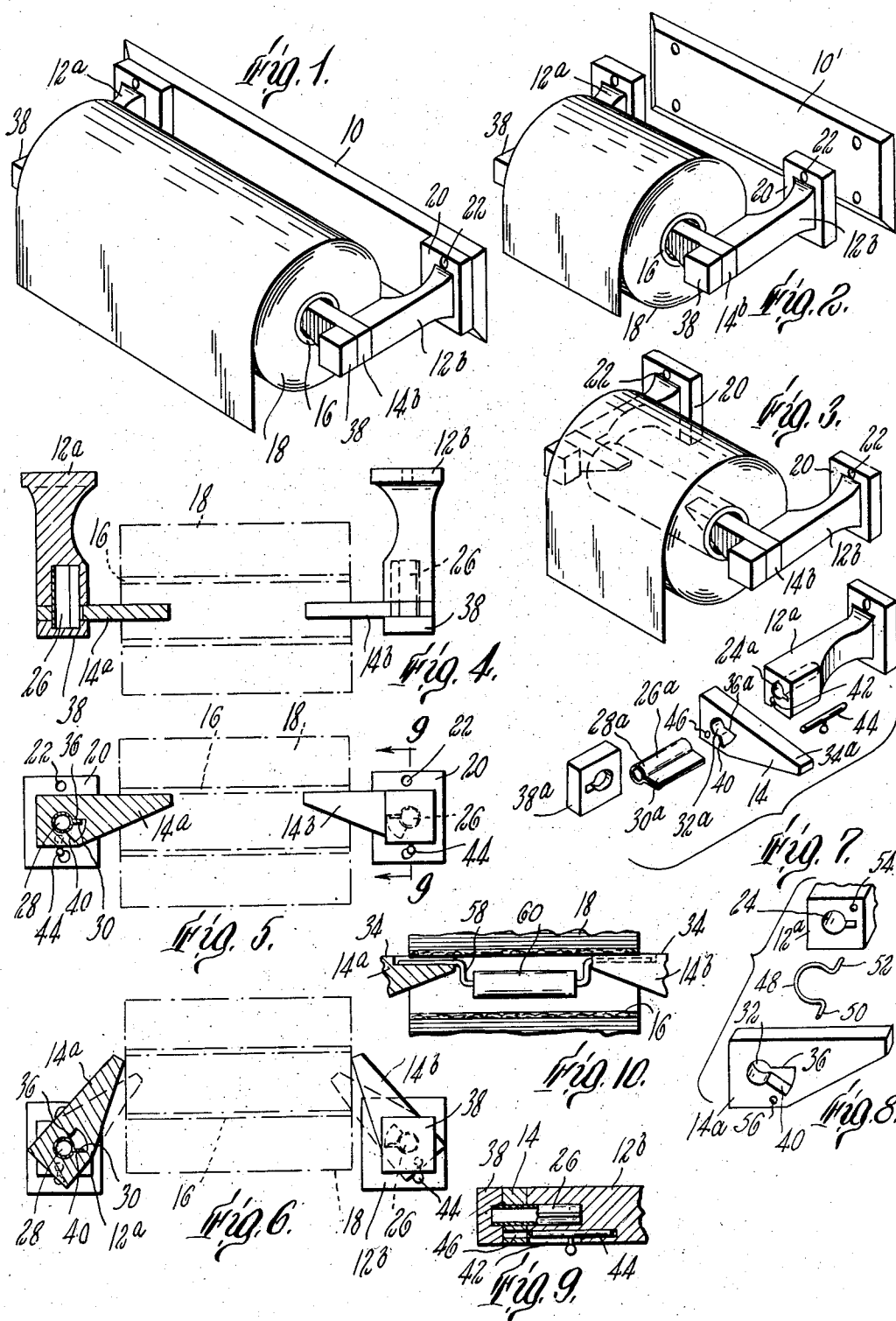
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DISPENSING HOLDER FOR ROLLED MATERIAL

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DISPENSING HOLDER FOR ROLLED MATERIAL

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2 Claims. (Cl. 242—55.55)

This invention relates to dispensing holders for rolled material, and has particular application to holders for rolls of toilet paper or paper towels. This application is a continuation-in-part of my copending application Serial No. 573,841, filed March 26, 1956 and now abandoned.

An object of this invention is to provide a new and improved holder for rolled material of the type described which permits more ready installation of a full roll and removal of the core of the same for replacement.

Another object of the invention is to provide an improved holder for rolled material which may be manufactured inexpensively and by mass production methods and in which all the operating portions of the apparatus are concealed from view such that a secure and aesthetically appealing support structure is provided.

In accordance with the invention, I provide a dispensing holder adapted to support rolled materials which are provided with an axial opening at either end thereof. My novel holder according to the preferred embodiment comprises a pair of arms which are adapted to be mounted on a wall or on a suitable supporting member such that they extend forwardly therefrom in parallel spaced relationship a sufficient distance to accommodate the roll of material to be dispensed therebetween. Each arm includes a bladed pintle member which is adapted to receive a roll supporting finger. Each finger has a key hole shaped aperture which is adapted to cooperate with the bladed pintle. The fingers are movable from one position, in mutual alignment and facing each other for supporting the roll of material by reception of the fingers in its axial end openings, upwardly to a second position, which permits installation or removal of the rolled material. The movement of each finger is limited by the cooperation of a surface of the aperture in the finger with the blade portion of the associated pintle. The fingers may be maintained in their roll supporting position by means of a C-shaped spring which cooperates with the forwardly extending arm and the inwardly extending finger to bias the members into that position or alternatively a sliding bolt locking device may be provided to secure the fingers in roll supporting position.

Other objects and advantages of the invention will be seen as the following description of preferred embodiments thereof progresses, in conjunction with the accompanying drawing, in which:

Fig. 1 is a view in perspective of a roll dispensing holder mounted on a supporting plate, showing a roll of paper towels mounted thereon;

Fig. 2 is a view in perspective of the novel holder according to my invention showing its adaptability to support a roll of different dimensions, for example a roll of toilet paper;

Fig. 3 is another perspective view of a roll dispensing holder adapted to be directly mounted on a wall surface, showing a roll of toilet paper mounted thereon;

Fig. 4 is a plan view of a preferred embodiment of my

novel roll dispensing holder, shown partially in section;

Fig. 5 is a front view of the same, also partly in section, showing the fingers in their lower or roll supporting positions;

Fig. 6 is a view similar to Fig. 5, showing the fingers in raised position to permit withdrawal or installation of the roll;

Fig. 7 is an exploded perspective view, showing the components of one of the arm and finger assemblies in accordance with one embodiment of the invention;

Fig. 8 is an exploded perspective view, showing certain components of one arm assembly according to a second embodiment of the invention;

Fig. 9 is a sectional view of an arm and finger assembly taken along the line 9—9 of Fig. 5; and

Fig. 10 is a sectional view through a roll, showing the apparatus according to the invention adapted to hold a deodorant material within the core of the rolled material.

With reference to Fig. 1, the dispensing holder according to one embodiment of the invention includes a support or base 10 adapted to be mounted on any suitable surface, such as the wall of a kitchen or bathroom. Extending forwardly from the base 10 is a pair of parallel arms 12a and 12b, each of which carries an inwardly extending finger 14 which is adapted to enter into the core 16 of a roll of material 18. The fingers are in opposed and aligned relationship such that the roll 18 is supported thereon. A modification of the structure is shown in Fig. 2 in which the support plate 10' is shorter such that the distance between the arms 12a and 12b is suitable to receive a roll of toilet paper rather than a roll of paper towels for example. The arms 12a and 12b may also be directly mounted on a wall as indicated generally in Fig. 3. The arm 12 includes an enlarged portion 20 which is adapted to abut the wall or support and includes apertures 22 adapted to receive suitable securing members such as bolts. The general configuration of both arms and fingers is shown in the perspective view, Fig. 3.

As more clearly seen in Fig. 7, arm 12a is provided with an aperture or bore 24a at its outer end which is adapted to receive a bladed pintle member 26a. The pintle includes a cylindrical portion 28a and a flat blade portion 30a which extends longitudinally of the cylindrical portion. The pintle is preferably formed from sheet metal as indicated and may be secured within the aperture 24a by means of an interference fit.

The finger 14a includes a key hole shaped aperture 32a. This aperture is adapted to be positioned relative to the pintle such that the finger is supported with its upper surface 34a in horizontal position when the surface 36a of the aperture 32a contacts the upper surface of the blade portion 30a of the pintle. The inwardly extending portion of the finger 14 is preferably tapered toward a point such that insertion of the roll of material and removal of the core is facilitated.

Mounted over the end of the pintle is a cap portion 38a of cross section corresponding to the arm and having a recess of a configuration adapted to conform to the pintle such that it may be secured thereon by press fit or by other suitable securing means. In this manner the arm and finger structure presents a completed aesthetically appealing configuration as all the working parts of the structure are concealed from view.

From the foregoing description the operation of my novel device will be readily apparent. The same reference numerals will be utilized to refer to those corresponding parts of the assemblies of arms 12a, 12b and fingers 14a, 14b which it is believed are sufficiently similar such that undue confusion will not arise and such that the description may be clear, exact and concise. The fingers 14a and 14b, when installed on arms 12a and 12b re-

spectively, will normally be in alignment and facing each other, being held in such position by the coaction of each blade 30 against the surface 36 of the aperture 32. The key hole configuration of the aperture permits the fingers to rotate upwardly on the cylindrical portion 30 of the pintle through an angle about 60°, until the surface 40 of the aperture contacts the lower surface of the blade portion 30. This position is shown in Fig. 6. In this position the distance between the fingers 14a and 14b is sufficient to permit the particular roll 18 of sheet material which is to be dispensed to be inserted between them. Similarly, the length of the fingers 14a and 14b are conformed to the length of the roll and also to the diameter of the opening of the core 16 upon which the material is wound. Thus in the raised position of Fig. 6, the roll of material may be inserted between the ends of the fingers 14a and 14b and the fingers may then be rotated into the openings in the core 16 and fall into an intermediate position indicated by the broken lines in Fig. 6. The roll of material may then be released downwardly and the fingers will pivot to their lowest position as shown in Fig. 5 where they will securely support the roll of material, permitting ready dispensing therefrom without the danger of it falling off. When the supply of paper or other rolled material is exhausted, quick removal of the hollow core 16 for replacement by a fresh roll is accomplished simply by lifting the core straight up.

If desired an aperture 42 in the outer end of arm 12 may be provided which is adapted to receive a sliding bolt member 44. A correspondingly positioned aperture 46 is then provided in the finger 14. The interrelationship of these parts may be better seen with reference to Fig. 9. When the fingers 14 are in their lower position as shown in Fig. 5 the bolt may be moved in a direction forward or outwardly from the supporting member 10 such that its forward portion enters into the aperture 46 and secures the associated finger in roll supporting position. In this manner the roll of material is securely positioned on the supporting fingers 14 and cannot be removed therefrom without manipulation of the bolt or bolts 44.

Another modification is shown in Fig. 8. This structure is preferred in certain installations. A spring 48 which is C-shaped, one end 50 of which is forwardly extending and the other end 52 is rearwardly extending, is mounted between the outer end of the arm 12 and the inner side of the finger 14. A suitable recess may be provided in one of the members to provide close contact between the two surfaces. An inwardly extending bore 54, provided in the end surface of the arm, is adapted to receive the inwardly extending end portion 52 of the spring 48. A corresponding aperture 56, provided in the finger, receives the outwardly extending end portion 50. In this manner one or both fingers may be resiliently biased downwardly to the position of Fig. 5 by the spring 48. The spring tends to maintain the surface 36 in abutment with the blade portion 30. The use of such a spring 48 will enable the novel holding device to be more positive in operation, thereby preventing accidental dislodgment of the roll during dispensing.

An additional modified structure is shown in Fig. 10. In this structure the outer portions of the fingers at the upper surfaces 34 thereof are recessed to receive a supporting member 58 which has a depending central portion adapted to receive a block of deodorant material 60. A deodorant may be easily suspended by this apparatus within the roll of toilet paper thereby providing a convenient and unobtrusive holder for such material.

Thus it will be seen that the invention provides a novel and aesthetically appealing holder for rolled material. The holder may be manufactured inexpensively from a variety of materials including metal and plastics of various colors as desired. A particular feature is that all the

operating parts are concealed from view. While there have been shown and described herein preferred embodiments of the invention it will be understood that the invention is not intended to be limited thereto or to details thereof and departures may be made therefrom within the spirit and scope of the invention as defined in the following claims.

I claim:

1. A dispensing holder for a roll of material having an axial opening at each end, said holder comprising a pair of rigid arms each having an enlarged mounting portion at its inner end such that the arms are adapted to be mounted on a vertical support in mutually spaced parallel relationship extending outwardly from said support at right angles thereto, each of said arms having a hub portion and an axial bore extending inwardly from the outer end thereof, a bladed pintle adapted to fit into each of said bores, a finger having a keyhole shaped aperture near one end, said finger adapted to be pivotally mounted by means of said aperture on each of said pintles for rotation about the axis of the respective pintle from a horizontal roll supporting position in which a surface of said aperture abuts said bladed portion and in which said fingers are mutually aligned with each other and adapted to be received into said opening of said roll, upwardly to a second position permitting installation and removal of said roll wherein a second surface of said aperture abuts said bladed portion of said pintle, a cap member having a cross section similar to the cross section of the hub portion of said arm disposed on the outer end of said pintle and a sliding bolt locking means disposed in one of said arms adapted to engage the co-operative finger to lock said finger in said horizontal roll supporting position.

2. A dispensing holder for a roll of material having an axial opening at each end, said holder comprising a pair of rigid arms each having an enlarged mounting portion at its inner end such that the arms are adapted to be mounted on a vertical support in mutually spaced parallel relationship extending outwardly from said support at right angles thereto, each of said arms having a hub portion and an axial bore extending inwardly from the outer end thereof, a bladed pintle adapted to fit into each of said bores, a finger having a keyhole shaped aperture near one end, said finger adapted to be pivotally mounted by means of said aperture on each of said pintles for rotation about the axis of the respective pintle from a horizontal roll supporting position in which a surface of said aperture abuts said bladed portion and in which said fingers are mutually aligned with each other and adapted to be received into said opening of said roll, upwardly to a second position permitting installation and removal of said roll wherein a second surface of said aperture abuts said bladed portion of said pintle, a cap member having a cross section similar to the cross section of the hub portion of said arm disposed on the outer end of said pintle and a channel in the inwardly extending portion of each of said fingers adapted to receive supporting members for a deodorant material such that said deodorant material is adapted to be positioned within the core of the supported rolled material in concealed position.

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