United States Patent [19]

Chevas

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[54] **PAPER ROLL HOLDER**

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[52] **U.S. Cl.** **242/55.3,** 242/55.53

[51] **Int. Cl.** **B65h 19/04**

[58] **Field of Search** 242/55.2–55.53; 312/38–40; 225/46

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[57] **ABSTRACT**

A paper roll holder comprised of a pair of generally identical right angled plate members, one member for mounting on a wall or the like and the other member being hinged to the one member for providing a cover for the holder as well as means to block removal of a paper roll from the holder. One angled plate member has a rear plate portion for securing to the wall and an end support plate portion protruding from the wall and having a rod-like paper roll holding member secured at one end thereof to one side of the end support plate portion. The second angled plate member has a top plate portion pivotally connected to the top edge of the end support plate portion of the first angled plate member for covering a roll of paper on the rod-like member, and an end plate portion depending downwardly from the top plate portion past the opposite end of the rod-like member to block removal of a roll of paper thereof but permitting removal of the paper roll simply by pivoting the second angled plate member upwardly.

13 Claims, 5 Drawing Figures

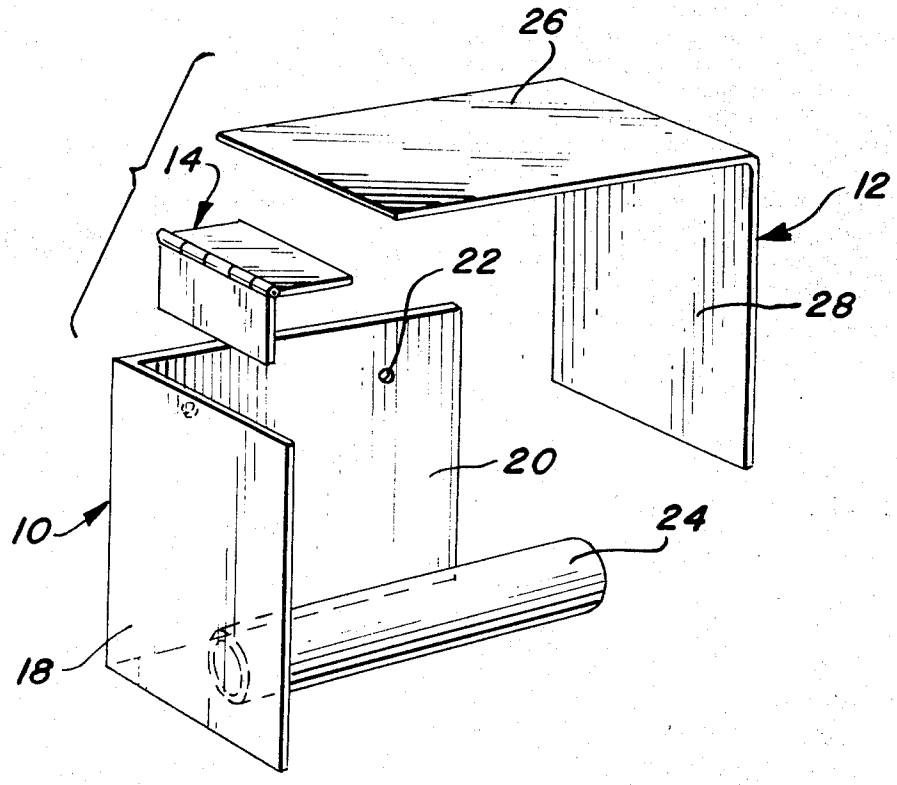


FIG. 1

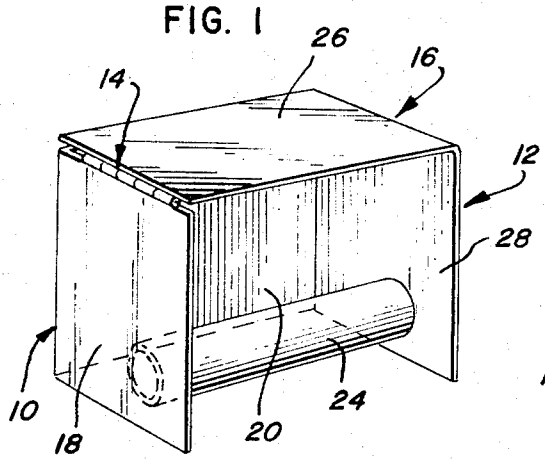


FIG. 2

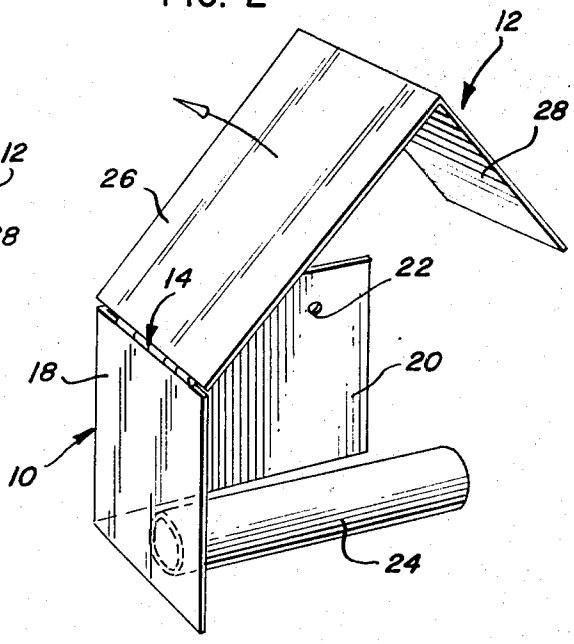


FIG. 3

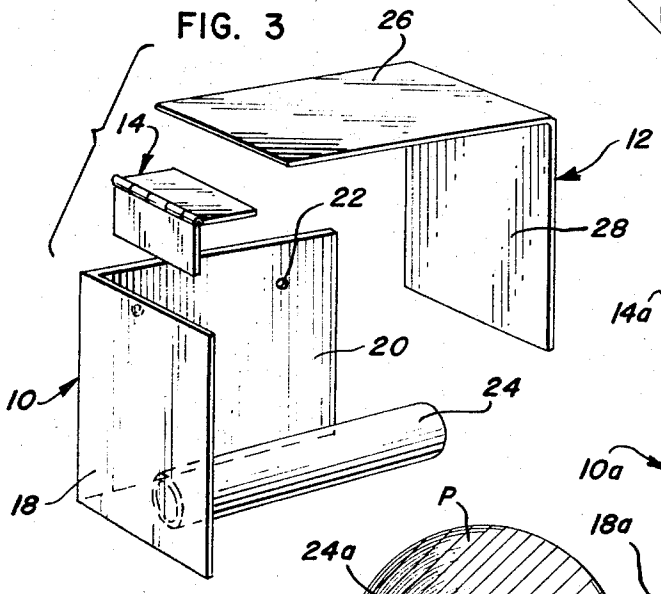


FIG. 4

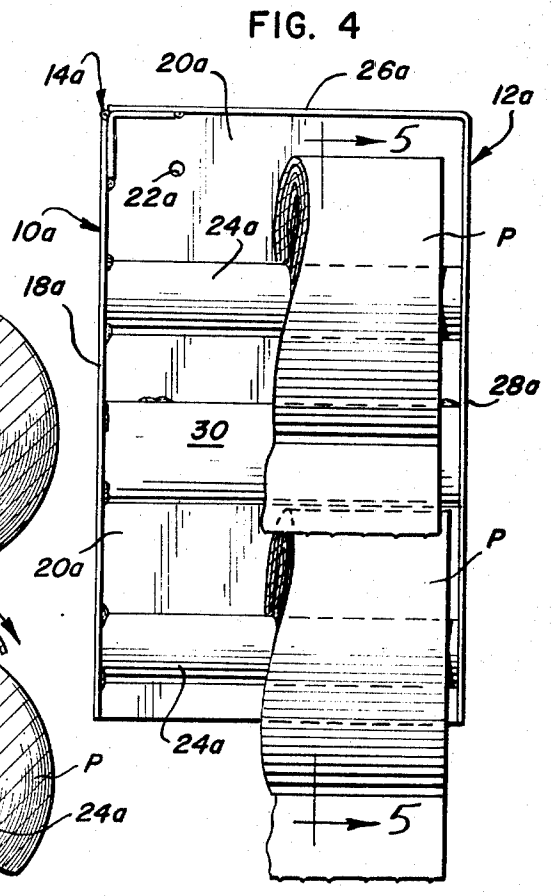
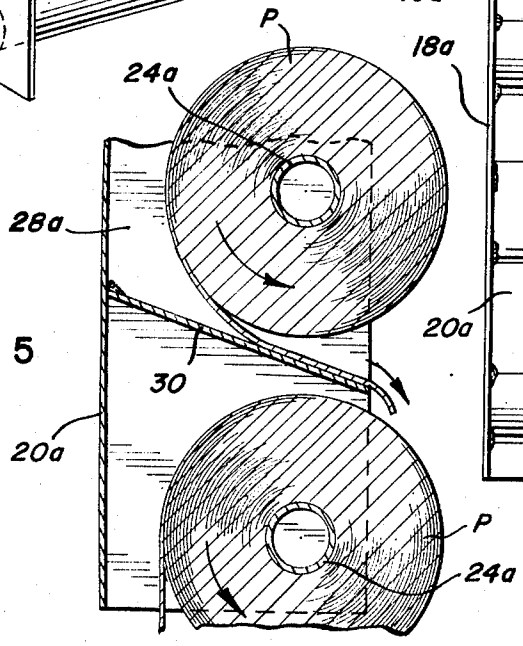


FIG. 5



PAPER ROLL HOLDER

BACKGROUND AND SUMMARY OF THE INVENTION

This invention relates generally to a paper roll holding device for paper rolls such as toilet tissue or the like.

Paper roll holders are known in the art wherein angled plate members are provided, with at least one of the angle members hinged for pivoting about a vertical axis and having portions for inserting into the core of the paper roll. In many instances, the holders are provided with means for locking the same so that the roll of paper thereon cannot be removed until such time as the paper is completely unwound and used from the roll, at which time the holder may be readily unlocked so that the supply of paper may be replenished. The purpose of the locking features are to prevent vandalism, particularly in public establishments.

In recent times, however, rather than preventing vandalism, such locking devices have tended to increase property damage because a vandal simply will tear the paper roll holder apart in order to steal the paper roll itself.

An object of the present invention is to provide a new and improved, vastly simplified, and easily manufactured paper roll holder comprising a unique combination of identical parts which provide an open front and bottom housing for the paper roll, while permitting easy access to the paper roll contained therein. In the exemplary embodiment of the invention, a generally rigid end support plate has means for mounting the same to a wall or the like so that the plate protrudes generally perpendicularly outwardly from the wall in a generally vertical plane. A rodlike tubular member is secured at one end thereof to one side of the end support plate spaced from and extending generally horizontally and parallel to the wall for receiving a core of a paper roll, or the like. An angled plate member is provided with a top plate portion pivotally connected on a generally horizontal axis to the top edge of the end support plate for covering a roll of paper on the rod-like member, and an end plate portion formed rigidly with and depending downwardly from the top plate portion past the opposite end of the rod-like member to block removal of a paper roll therefrom but permitting removal of the paper roll simply by pivoting the angled plate member upwardly.

In the preferred embodiment of the invention, two identical angled plate members are provided which vastly cuts down the manufacturing costs, as well as providing ease of assembly. The aforesaid end support plate comprises one plate portion of a second angled plate member having a rear plate portion secured generally flush with the wall. Both of the plate portions of the angled plate members are generally identical in size and rectangularly shaped and disposed at right angles to each other, as well as generally perpendicular to the wall, to provide an aesthetically pleasing generally uniform open front and bottom housing for a paper roll.

Other objects, features and advantages of the invention will be apparent from the following detailed description taken in connection with the accompanying drawings.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a paper roll holder embodying the concepts of the present invention, with the relatively movable parts thereof in position for holding a paper roll thereon;

FIG. 2 is a perspective view similar to that of FIG. 1, one of the angled plate members being hinged upwardly about its horizontal hinged connection to the other angled support plate to permit removal of a paper roll;

FIG. 3 is a perspective, exploded view of the paper roll holder of FIG. 1;

FIG. 4 is a front elevational view of a modified paper roll holder which accommodates a pair of paper rolls in vertical spaced disposition; and

FIG. 5 is a partial section taken generally along the line 5—5 of FIG. 4.

DETAILED DESCRIPTION OF THE INVENTION

Referring to the drawings in greater detail, and first to FIGS. 1 through 3, a pair of generally identical angled plate members, generally disignated 10 and 12, are pivotally connected by means of a standard leaf hinge, generally designated 14, to provide a paper roll holder, generally designated 16 in FIG. 1.

More particularly, the one angled plate member 10 has an end support plate portion 18 and a rear plate portion 20. The plate portions 18 and 20 are rectangularly shaped as shown in the drawings and the rear plate portion 20 has a plurality of apertures 22 for securing the rear plate portion 20 flush with a wall or the like. End support plate portion 18 is formed rigidly with the rear support plate portion 20 and extends at right angles thereto so as to protrude generally perpendicularly outwardly from the wall in a generally vertical plane. A rod-like member 24, tubular in shape, is secured at one end thereof to the inner side of the end support plate portion 18 of the angled plate member 10 spaced from and extending generally parallel to the wall for receiving the core of a paper roll, or the like. The tubular rod-like member 24 is shown in the drawings rigidly fixed to the end support plate portion 18, as by soldering or the like. However, a rotational member may readily be employed.

The other angled plate member 12 has a top plate portion 26 pivotally connected on a generally horizontal axis to the top edge of the end support plate portion 18 of the angled plate member 10 by means of the hinge 14. Secured integral with the top plate portion 26 of the angled plate member 12 is a blocking end plate portion 28 which depends downwardly from the top plate portion 26 past the free end of the rod-like tubular member 24 to block removal of a paper roll therefrom when in position as shown in FIG. 1 but permitting removal of the paper roll simply by pivoting the angled plate member 12 upwardly as shown in FIG. 2.

When in the position shown in FIG. 1, the blocking end plate portion 28 abuts against the free end of the tubular member 24 and provides a considerably rigid structure comprising an open front and bottom housing for a paper roll. With the blocking end plate portion 28 abutting against the end of the tubular member 24, the top plate portion 26 may be utilized as a small table or shelf on which material may be placed. In addition, preferably the angled plate members 10 and 12 are identically shaped, particularly with the plate portions thereof rectangular in shape to facilitate easy and inexpensive manufacturing, as by stamping and bending from sheet metal or the like.

FIGS. 4 and 5 show an alternate form of the invention wherein a pair of angled plate members are utilized for the same functions as with the embodiment of the invention shown in FIGS. 1 through 3. Like numbers will be applied where applicable, with the letter "*a*" after the numbers. In this embodiment, one angled plate member **10a** has an end support plate portion **18*a*** and a rear plate portion **20*a***, with the rear plate portion having apertures **22*a*** for securing the holder to a wall. A hinge **14*a*** is provided for pivotally connecting a second angled plate member **12*a*** thereto for pivoting the angled plate member **12*a*** upwardly about a horizontal axis defined by the top edge of the end support plate portion **18*a*** of the angled plate member **10*a***. The angled plate member **12*a*** has a top plate portion **26*a*** and a blocking end plate portion **28*a*** which have the same functions as the plate portions **26** and **28**, respectively, of the embodiment shown in FIGS. **1–3**.

In the embodiment of FIGS. **4** and **5**, a pair of rod-like tubular members **24*a*** are secured at adjacent ends thereof to the inside of the end support plate portion **18*a*** of the angled plate member **10*a*** spaced from and extending generally parallel to the rear plate portion **20*a***. The tubular members **24*a*** are spaced vertically on the end support plate portion **18*a*** to accommodate a paper roll on each of the tubular members in vertical spaced relationship as shown in FIGS. **4** and **5**. A divider plate **30** is secured along its rear edge, as by soldering or the like, to the rear plate portion **20*a*** of the angled plate member **10*a*** and protrudes forwardly and downwardly as shown best in FIG. **5**. This divider plate **30** not only prevents intermingling of the ends of the paper rolls P received on the tubular members **24*a***, but the downwardly inclined orientation of the divider plate serves to guide the free end of the upper paper roll downwardly and forwardly as shown in FIG. **5**.

Of course, it is to be understood that more than two rod-like tubular members **24*a*** and divider plates **30** may be provided to accommodate any desired numbers of paper rolls.

The foregoing detailed description has been given for clearness of understanding only and no unnecessary limitations should be understood therefrom as some modifications will be obvious to those skilled in the art.

I claim

1. A paper roll holder comprising:

a generally rigid end support plate;

means for mounting the end support plate to a wall or the like so that the plate protrudes outwardly from the wall in a generally vertical plane;

a rod-like member secured at one end thereof to one side of the end support plate spaced from and extending generally parallel to the wall for receiving the core of a paper roll, or the like; and

an angled plate member having a top plate portion pivotally connected on a generally horizontal axis to the top of said end support plate for covering a roll of paper on said rod-like member, and an end plate portion rigid with and depending downwardly from the top plate portion past the opposite end of the rod-like member to block removal of a paper roll therefrom but permitting removal of the paper roll simply by pivoting the angled plate member upwardly.

2. The paper roll holder of claim **1** wherein the end plate portion of said angled plate member is disposed generally parallel to the end support plate and abuts against said opposite end of the rod-like member when in its normal blocking position.

3. The paper roll holder of claim **1** wherein said end support plate and the end plate portion of said angled plate member are disposed in generally vertical planes generally perpendicular to the wall and said top plate portion of the angled plate member is disposed in a generally horizontal plane generally perpendicular to the wall.

4. The paper roll holder of claim **3** wherein said end support plate and the end and top plate portions of said angled plate member all are generally of the same width to provide a generally uniform open front and bottom housing for a paper roll.

5. The paper roll holder of claim **1** wherein said end support plate comprises one plate portion of a second angled plate member having a rear plate portion secured generally flush with the wall.

6. The paper roll holder of claim **5** wherein both of said angled plate members are generally identical in size and shape with the plate portions thereof being disposed generally at right angles to each other and protruding generally perpendicular to the wall when secured thereto to provide a generally uniform open front and bottom housing for a paper roll.

7. The paper roll holder of claim **6** wherein both of the plate portions of both of said angled plate members are generally rectangularly shaped.

8. The paper roll holder of claim **5** wherein both of said angled plate members are fabricated of sheet metal material.

9. The paper roll holder of claim **1** wherein said end support plate has a plurality of said rod-like members secured thereto in spaced generally parallel disposition and the end support plate is of a size to accommodate a paper roll on each rod-like member, and the end plate portion of said angled plate member is of a size to block the opposite ends of all of said rod-like members.

10. A paper roll holder comprising:

a generally rigid end support plate;

means for mounting the end support plate to a wall or the like so that the plate protrudes outwardly from the wall in a generally vertical plane;

at least a pair of rod-like members secured at ends thereof to one side of said support plate member spaced from and extending generally parallel to the wall, the rod-like members being spaced vertically to accommodate a paper roll on each member in vertically spaced relationship; and

an angled plate member having a top plate portion pivotally connected on a generally horizontal axis to the top of said end support plate for covering the rolls of paper on said rod-like members, and an end plate portion rigid with and depending downwardly from said top plate portion past the opposite ends of the rod-like members to block removal of paper rolls therefrom but permitting removal of the paper rolls simply by pivoting the angled plate member upwardly.

11. The paper roll holder of claim **10** wherein said end support plate comprises one plate portion of a second angled plate member having a rear plate portion secured generally flush with the wall, and including a divider plate secured along a rear edge thereof to the rear plate portion of said second angled plate member and protruding forwardly between said rod-like members to prevent intermingling of the ends of paper on

the paper rolls received on the two rod-like members.

12. The paper roll holder of claim 11 wherein said divider plate is inclined downwardly and forwardly to guide the paper roll end from the top paper roll downwardly and forwardly.

13. A paper roll holder comprising:

means for mounting a rod-like member to a wall or the like with the rod-like member spaced from and extending generally parallel to the wall for receiving the core of a paper roll or the like;

fixed blocking means disposed at one end of the rod-like member for positioning a paper roll on the rod-like member and blocking removal of the paper roll from said one end of the rod-like member;

and means for selectively blocking the opposite end of the rod-like member, said last named means comprising an angled plate member having a top plate portion pivoted on a generally horizontal axis generally perpendicular to the wall above said one end of the rod-like member for covering a roll of paper on the rod-like member, and an end plate portion rigid with and depending downwardly from the top plate portion past the opposite end of the rod-like member to block removal of a paper roll therefrom but permitting removal of the paper roll simply by pivoting the angled plate member upwardly about its generally horizontal axis.

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