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TOWEL DISPENSER AND WASTE RECEPTACLE UNIT, AND MOUNTING BRACKET THEREFOR

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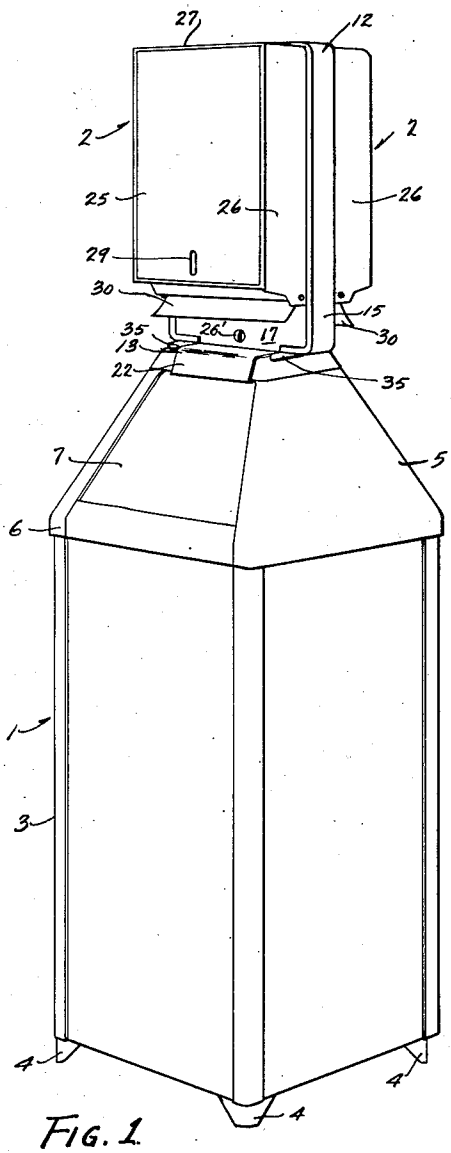


FIG. 1.

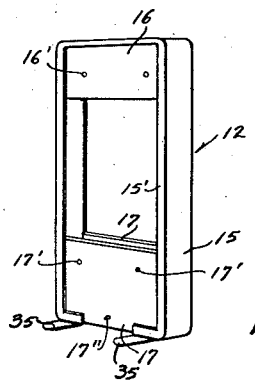


FIG. 3.

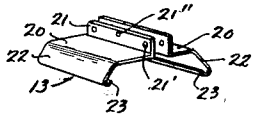


FIG. 4.

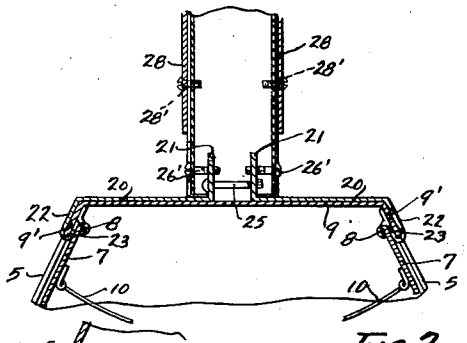


FIG. 2.

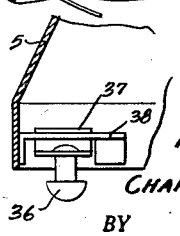


FIG. 5.

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TOWEL DISPENSER AND WASTE RECEPTACLE UNIT, AND MOUNTING BRACKET THEREFOR

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7 Claims. (Cl. 220—85)

This invention relates generally to a towel dispenser and waste receptacle unit, and more particularly to a new and useful adapter mounting bracket for mounting a towel dispenser kit on a waste receptacle.

Towel dispensers generally are mounted on a wall separate from the waste receptacle provided for used towels. This defaces the wall, and frequently necessitates a relatively inconvenient arrangement wherein the two units are not closely adjacent with the result that used towels are simply thrown to the floor.

A primary object of my invention is to provide a self-contained towel dispenser and waste receptacle unit characterized by its simple and relatively inexpensive construction, its ease of assembly, and by its convenience in use.

Another object of this invention is to provide a readily assembled, compact mounting bracket device, having a neat appearance, for mounting a towel dispenser kit on a waste receptacle.

The mounting bracket device of my invention is characterized by the provision of a mounting panel on which one or more towel dispensing kits are carried, and a clamp device embracing the top of a waste receptacle for mounting the panel thereon.

The foregoing and other objects and advantages of my invention will become clearly apparent from the ensuing detailed description of a preferred embodiment thereof, taken together with the accompanying drawing showing such embodiment wherein:

Fig. 1 is a perspective view of a self-contained towel dispenser and waste receptacle unit according to my invention;

Fig. 2 is a fragmentary sectional view showing the manner in which my mounting bracket device is installed;

Fig. 3 is a perspective view of the mounting panel of my invention;

Fig. 4 is a perspective view of the mounting bracket clamp of my invention; and

Fig. 5 is a fragmentary detail view showing rubber feet applied to the bottom of the waste receptacle cover in accord with my invention.

The towel dispenser waste receptacle unit shown in the drawing comprises a waste receptacle generally designated 1 and a towel dispenser unit generally designated 2. Receptacle 1 generally comprises a standard construction modified slightly for purposes of my invention and consisting of a rectangular main body part 3 having feet 4 at each corner of its lower end and covered at its upper end by a head part 5. Head part 5 comprises a four-sided framework of generally frusto-pyramidal form having a straight-sided bottom edge portion 6 embracing the upper edge portion of body part 3 and doors 7 normally closing access openings on opposite sides thereof. Doors 7 are hinged at spaced points along the top thereof, as at 8, to the depending inclined flange portion 9' surrounding the flat-topped cap 9 of

head part 5, and a flat spring 10 extends between the doors 7, whereby they are resiliently urged to closed position in a manner known in the art.

The towel dispensers 2 are of a type known in the art and do not per se form any part of my invention. The dispensers are carried by a mounting panel generally designated 12 which is secured to the receptacle head part 5 by a clamp generally designated 13.

Referring now to Fig. 3, mounting panel 12 comprises a channel-shaped member 15 bent and rebent to provide a rectangular frame, the opposite ends of member 15 being spaced apart along the bottom of the mounting panel. Plates 16 and 17 are positioned adjacent the top and bottom of panel 12, respectively, on both sides thereof, said plates 16 and 17 being for example spot welded to the flanges 15' forming the opposite sides of member 15. Each of panels 16 and 17 is provided with spaced openings 16' and 17', respectively, and the panels 17 each have a further opening 17'' adjacent the bottom thereof, for purposes which will become apparent.

Mounting panel 12 is secured to cap 9 of the receptacle head part 5 by means of clamp 13 which comprises identical parts each having a flat base portion 20 terminating at its inner end in an upstanding flange 21 having spaced openings 21' adjacent the opposite edges thereof and a centrally located opening 21''. At its other end base portion 20 leads to a downwardly inclined portion 22 terminating in an inturned flange part 23.

The towel dispensers comprise a cover having the front wall 25, side walls 26 and a top wall 27, the cover being hinged adjacent the lower side edge portions thereof to a back plate 28 (Fig. 2) which is provided with spaced openings 28' aligned with the openings 16' and 17' of plates 16 and 17, respectively, for attachment thereto as by screws or the like. If desired, front wall 25 can have a vertically elongated opening 29 therethrough to provide a visual indication of the level of paper towels 30 in the container, the towels being dispensed through the bottom thereof in the usual manner.

The receptacle head part 5 usually is hinged to the main body part 3, with chains extending therebetween, so that the head part can be tipped back a predetermined distance for removing the usual bag or liner (not illustrated) from within the receptacle body part 3. However, when the towel dispenser is attached to the receptacle it is preferred to be able to simply lift head part 5 off the main body part 3, and therefore the usual hinge pins and chains (not illustrated) will be removed from the receptacle.

My novel mounting bracket device is used in the following manner.

The parts of clamp 13 are first secured to the receptacle head part 5 by hooking the inturned flange parts 23 under the cap 9 of head part 5, whereby the inclined portions 22 extend downwardly along the inclined flange portion 9' around the lower edge of cap 9 and the inturned flange parts 23 fit thereunder between cap 9 and the hinged doors 7 on each side of the head 5. The flat base portions 20 rest on the flat top of cap 9, and the clamp parts are drawn together as by means of nuts and bolts 25 extending through the openings 21' to clamp them in position on cap 9, care being taken to ensure that the cap 9 of the receptacle head part 5 is not drawn out of shape.

Mounting panel 12 is then fitted over the upstanding flanges 21 of the clamp 13, the spaced apart ends of member 15 permitting this, as shown for example in Fig. 2, and mounting panel 12 is secured to clamp 13 by screws 26' or the like extending through the aligned openings 17'' and 21''. With this arrangement, mounting panel 12 rests on the base portions 20 of clamp 13, and is secured in position thereon. Also, feet 35, secured

to the bottom of panel 12 adjacent the opposite ends of member 15, rest against the top of cap 9 on opposite sides of clamp 13, whereby panel 12 is firmly mounted on the receptacle. The towel dispensers 2 then are attached to the mounting panel in the manner previously described.

Also, because when the towel dispenser is attached to the receptacle it is desired that the receptacle head part 5 be completely removable, whereby it will be placed for example on the floor when emptying the receptacle, I provide means to avoid marring the floor and the bottom surface of the receptacle head part. Such means comprise rubber feet 36 secured as by brackets 37 to the inside corner gusset brackets 38 extending across the corners of the receptacle head part 5, whereby the rubber feet 36 will extend below the receptacle head part to provide a base on which to rest the same, as shown in Fig. 5, when it is removed from the receptacle body part 3.

Accordingly, it is seen that my invention fully accomplishes the aforesaid objects and provides a relatively inexpensive mounting bracket of simple construction whereby one or more towel dispenser kits are readily attached to the head of a waste receptacle. The resulting unit has a very neat appearance, and is very convenient to use because it is self-contained and because both the towel dispensing and the waste receiving portions thereof are accessible from opposite sides. Neither the towel dispenser nor the waste receptacle is defaced, and separate installation of the towel dispenser is avoided.

While I have shown but a single, preferred embodiment of my invention, I am aware that various changes could be made therein and I do not necessarily intend to be limited to the details thereof. Instead, I intend that my invention be defined by the appended claims.

Having fully disclosed and completely described my invention, together with its mode of operation, what I claim as new is:

1. In combination with, a waste receptacle having a flat-sided head portion provided with openings on opposite sides thereof for the deposit of refuse therein and having a generally flat top surface, a clamp device including opposed clamp parts each having a generally flat base portion resting on said receptacle head top surface and a flanged part engaging under said head portion along the upper edge of one of said openings, said clamp device having an upstanding flange positioned generally centrally of said receptacle head top surface, a mounting panel having a generally flat bottom wall provided with an opening therethrough, said panel resting on said clamp device base portions with said upstanding flange projecting through said opening in the bottom wall thereof, and means securing said panel to said upstanding flange, said panel being adapted to have towel dispensers mounted on opposite sides thereof substantially directly above said receptacle openings.

2. An adapter bracket for mounting a towel dispenser on a waste receptacle head part of the type having access openings on opposite sides thereof comprising, a mounting panel formed of a channel-shaped member bent and rebent to provide a generally rectangular frame, the opposite ends of said member being spaced apart along the bottom of said frame to provide an opening therethrough, plate means secured to said member on the opposite sides of said panel for attachment to a pair of towel dispensers, a clamp device adapted to releasably embrace the top of the receptacle head part and including a portion projecting through said opening in the bottom of said frame, and means releasably securing said panel to said projecting clamp portion.

3. An adapter bracket as set forth in claim 2, together with feet carried by said member on the bottom of said frame for bearing against the receptacle top wall surface on opposite sides of said clamp device.

4. An adapter for mounting towel dispensers on a waste receptacle of the type having a head portion provided with access openings on opposite sides thereof comprising, a clamp device including opposed clamp parts each adapted to extend across the top of the receptacle head portion and then downwardly along the side thereof, said clamp parts each terminating at one end thereof in an inturned flange adapted to extend around the upper edge of a receptacle access opening and at the other end thereof in an upstanding flange part, means for drawing said upstanding flange parts together to releasably clamp said device on the receptacle head portion, an upright mounting panel adapted to carry a towel dispenser, and means releasably securing said panel to said upstanding flange parts.

5. A bracket for mounting a towel dispenser on a waste receptacle head of the type having access openings on opposite sides thereof and surmounted by a cap portion having a flat top surface comprising, a clamp device including opposed parts each having a flat base portion adapted to rest on the flat top surface of the receptacle cap portion and a flanged part adapted to extend downwardly along a side of the cap portion and under the upper edge of an access opening, each of said base portions terminating at its inner end in an upstanding flange part, means for drawing said upstanding flange parts together to clamp said device on the receptacle head, an upright mounting panel adapted to carry a towel dispenser, means defining an opening through the bottom of said panel, and means releasably securing said panel to said upstanding flange parts with said upstanding flange parts extending through said opening in the bottom of said panel.

6. A mounting bracket for mounting a pair of towel dispensers of the type having a back attachment plate on a waste receptacle of the type having a head of truncated pyramidal form provided with access openings on opposite sides thereof and having a generally flat top surface comprising, a mounting panel including a channel-shaped member bent and rebent to form a generally rectangular frame with its opposite ends spaced apart along the bottom of said frame, mounting plates secured to the side walls of said member on the opposite sides of said panel for attachment to the back plates of such towel dispensers, a clamp device including opposed clamp parts each having a flat base portion adapted to rest on the top surface of the receptacle head and an inclined portion adapted to extend downwardly along one side of the receptacle head, said inclined portions each terminating in an inturned flange adapted to engage beneath the upper edge of a receptacle access opening, the inner end of each of said clamp part base portions terminating in an upstanding flange, means engaging said upstanding flanges for drawing said clamp parts together in clamping engagement with the receptacle head, means securing said panel to said upstanding flanges with said upstanding flanges extending through the bottom of said frame between the opposite ends of said member, and feet carried by said panel on the bottom thereof for bearing against the top surface of the receptacle head on opposite sides of said clamp device.

7. A bracket for mounting a pair of towel dispensers of the type having a back attachment plate on a waste receptacle of the type having a head of truncated pyramidal form provided with access openings on opposite sides thereof and a substantially flat top surface comprising in combination, a mounting panel comprising a channel-shaped member bent and rebent to form a generally rectangular frame, the opposite ends of said member being spaced apart along the bottom of said frame to provide an opening therethrough into the interior of said frame, and mounting plates secured to said member in spaced apart relation on the opposite sides of said panel for attachment to the back plates of such towel dispensers, and a clamp device comprising opposed clamp parts each

having a substantially flat base portion adapted to rest on the top surface of the receptacle head and a downwardly and outwardly inclined portion adapted to extend downwardly along one side of the receptacle head, said inclined portions each terminating in an inturned flange adapted to engage beneath the upper edge of a receptacle access opening, the inner end of each of said clamp part base portions terminating in an upstanding flange; and means engaging said upstanding flanges for drawing said clamp parts together in releasable clamping engagement with the receptacle head, and means releasably securing said panel to said upstanding flanges with the latter ex-

tending through said opening and into said panel between the opposite sides thereof.

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