

INVENTOR
JOSE F. BALLESTER
BY *Popper, Babin & Bobis*

ATTORNEYS

FIG. 5

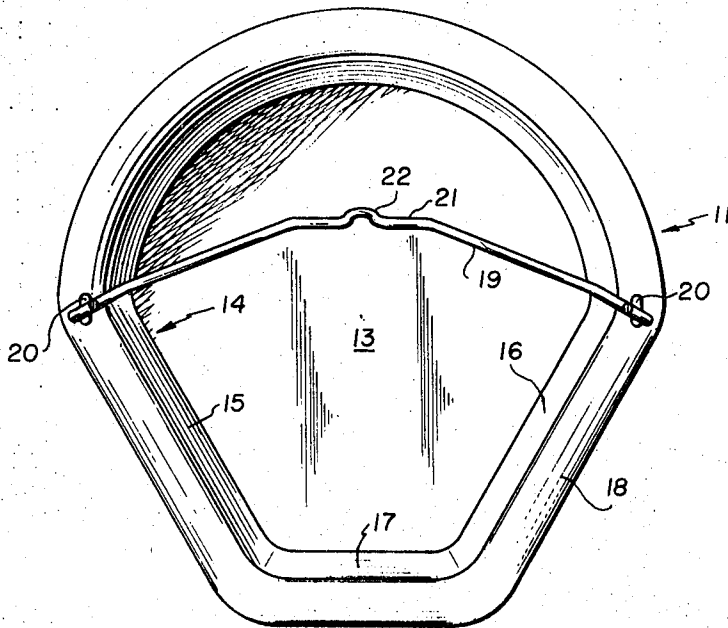
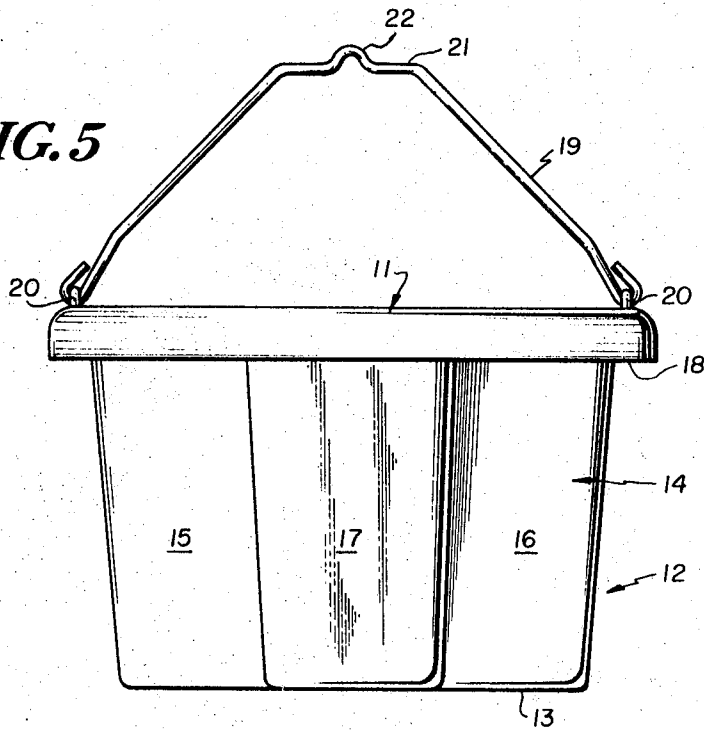


FIG. 6

INVENTOR
JOSE F. BALLESTER
BY *Poppen, Boin + Bohn*

ATTORNEYS

CORNER SUSPENDABLE PAIL AND HANGER

BACKGROUND OF INVENTION

In both the industrial and agricultural arts, it is convenient to hang pails containing either solids or liquids on walls. In order to suspend a round pail on a flat wall, means must be provided to support the pail against both gravity and accidental tipping. The usual expedients are in the nature of shelves or ringstands.

Pails hung or supported on flat walls are easily upset and present a hazard. Therefore, it is more desirable to suspend a pail in a corner defined by intersecting walls minimizing the danger of upset and utilizing otherwise wasted space. Known corner hangers employ shelves or ringstands or combinations of the two. When the shelf is used alone, the pail is easily upset. When the ringstand is used, either alone or in combination with the shelf, the pail frequently becomes jammed in the ring and is difficult to remove.

Therefore, it is among the objects and advantages of the present invention to provide a corner suspendable pail and hanger in which the pail is supported without the use of a shelf or a ringstand.

Another object of the present invention is to provide a corner suspendable pail in the hanger in which the pail gains its principal vertical support by means of interengagement of a downturned lip on the top edge of the pail and an upstanding flange on the bottom of a hanger.

Still another object of this invention is to provide a corner suspendable pail and hanger in which the pail is provided with a pivotal handle which is detachably engaged to the top of the hanger thereby providing support against rotation about the lip.

A further object of this invention is to provide a corner suspendable pail and hanger in which the pail is provided with a pair of generally upstanding flat faces oriented at generally right angles to each other which engage the walls defining the corner further securing the pail against rotational movement in a horizontal plane.

SUMMARY OF INVENTION

A corner suspendable pail and hanger comprising a pail, a downturned lip on the pail spaced away from the side thereof defining groove, a handle pivotally mounted to the pail generally on opposite sides thereof, a hanger attachable to a generally vertical support, a generally horizontal support on the hanger, an upstanding flange on the support insertable within the said groove and means on the hanger detachably engageable with the handle.

PREFERRED EMBODIMENT OF INVENTION

The objects and advantages aforesaid as well as other objects and advantages may be achieved by the corner suspendable pail and hanger claimed herein, a preferred embodiment of which is illustrated in the drawings in which:

FIG. 1 is a view in perspective of the hanger with the top of the pail and pail handle shown in broken lines;

FIG. 2 is a front elevational view of the hanger illustrated in FIG. 1;

FIG. 3 is a side elevational view of the hanger illustrated in FIG. 1 and 2.

FIG. 4 is a top plan view of the hanger illustrated in FIGS. 1, 2 and 3;

FIG. 5 is a side elevational view of the pail, a portion of which is illustrated in FIG. 1 in broken lines;

FIG. 6 is a top plan view of the pail illustrated in FIGS. 1 and 5.

Referring now to the drawings in detail, the corner suspendable pail and hanger combination includes a pail 11 and a corner wall hanger 12.

The pail 11 comprises an irregularly-shaped bottom 13 and a generally upstanding sidewall 14 formed on the bottom 13. In the drawings, the sidewall 14 is shown as upwardly and outwardly flaring but may be vertically straight as well. The

sidewall 14 is provided with a pair of spaced-apart flat faces 15 and 16 joined together by an intermediate flat face 17. The flat faces 15 and 16 are oriented generally at right angles to each other.

The topmost edge of the sidewall 14 is provided with a circumferential downturned lip 18 which is spaced away from the sidewall 14 to define a circumferential groove open at the bottom and closed at the top. A handle 19 is pivotally mounted through eye hooks 20-20 to the top edge of the pail 11 on generally opposed sides thereof. The handle 19 is provided with a flattened section 21 at its apex which is generally parallel to the flat face 17. The flattened section 21 of handle 19 is also provided with an arcuate deformation 22 for purposes which will be described in greater detail hereafter.

The pail 11 may be fabricated of any convenient material such as metals, plastics, rubber or rubber-fiber or the like.

The hanger 12 comprises a pair of generally vertically extending walls 23 and 24 defining a pair of generally vertically extending flat faces 25 and 26 oriented generally at right angles to each other. A generally vertically extending intermediate wall 27 is formed intermediate the walls 23 and 24 and defines a generally vertically extending flat face 28 which is oriented generally at an angle approximately 135° to the faces 25 and 26.

The hanger 12 is provided with a generally horizontal bottom 29 and a generally horizontal top 30. An angle 31 is rigidly secured to the bottom 29 and defines a horizontal leg 32 extending horizontally outwardly away from the edges of walls 23 and 24 and an upstanding flange 33. The upstanding flange 33 and the bottom leg 32 defines with the edges of walls 23 and 24 a groove 34 adapted to receive the downturned lip 18 on the pail 11.

The top 30 is provided with a pair of transverse holes 35 and 36. A generally inverted, U-shaped lockpin 37 having spaced-apart downwardly extending legs 38 and 39 is slidably mounted in holes 35 and 36. Leg 38 is longer than leg 39 and is provided with detent means 40 at its terminal end to prevent complete disengagement of that leg from hole 35. Nevertheless, as is illustrated in FIGS. 2 and 3, when pin 37 is withdrawn upwardly until detent means 40 engages the top 30, shorter leg 39 is free of hole 36 and extends above top 30.

The hanger 12 is also provided with holes 41, 41 in side members 23 and 24 to accommodate fastening means such as screws, nails or the like to secure the hanger to intersecting walls.

In operation, the hanger 12 is positioned in a generally right-angled corner defined by the intersection of a pair of walls. Screws or nails are passed through holes 41 to secure the hanger in place at the desired height.

The pail 11 is secured to the hanger 12 by first intruding the upstanding flange 33 at the bottom of the hanger 12 between the downturned lip 18 and the sidewall 14 of the pail 11 adjacent to flat face 17. The downturned lip 18 extends downwardly into the groove 34 defined by the flange 33, bottom leg 32 and side edges of walls 23 and 24 of the hanger 12. Preferably, the height of the flange 33 is substantially the height of the lip 18 so that the top of flange 33 engages the top of the closed groove defined by the lip 18 and sidewall 14 of the pail 11 and the bottom edge of the lip 18 engages the horizontal leg 32 of the hanger 12.

This engagement of the lip 18 on the pail 11 to the hanger 12 provides not only vertical support but insures against horizontal displacement of the top edge of the pail 11 away from the hanger 12.

The handle 19 on the pail 11 is pivoted to extend over the top 30 of the hanger 12. The lockpin 37 is raised so that the arcuate deformation 22 on the handle 19 extends between holes 35 and 36 in the top 30. The pin 37 is then lowered until leg 39 passes through hole 36 thereby trapping the handle 19 between legs 38 and 39 of pin 37. The flattened portion 21 of handle 19 permits the handle to lie in close conformity with the flat top 30 of the hanger 12. The deformation 22 in the handle 19 helps insure against rotational displacement or

movement of the pail 11. In addition, when the handle 19 is trapped between legs 38 and 39 of pin 37, the handle 19 is under tension load which resists rotation of the pail 11 about the lip 18 in a vertical plane. Thus, the pail 11 is firmly and relatively rigidly secured to the corner of the wall with firm support in all three potential planes of motion.

The flat faces 15 and 16 on the pail 11, oriented at 90° to each other, engage the walls of the corner in which the pail is mounted, further supporting the pail in place, and resisting potential rolling motion of the pail along either of the walls. The intermediate flat face 17 on the pail 11 insures a flat lip 18 at that point for engagement with the flat flange 33 on the hanger 12. The flat face 28 on the hanger 12 in turn insures that the hanger 12 will tightly engage the corner defined by intersecting walls irrespective of irregularities of the joint between the walls.

The foregoing description is merely intended to illustrate an embodiment of the invention. The component parts have been shown and described. They each may have substitutes which may perform a substantially similar function; such substitutes may be known as proper substitutes for the said components and may have actually been known or invented before the present invention.

I claim:

1. A corner suspendable pail and hanger comprising:
 - a. a pail;
 - b. a flat, generally upstanding wall portion on the pail;
 - c. a circumferential downturned lip on the flat wall portion defining a generally horizontal groove open at the bottom and generally closed at the top;
 - d. a handle pivotally attached to the pail generally on opposite sides of the open top thereof;
 - e. a hanger attachable to a support;
 - f. a generally horizontal support on a hanger;
 - g. an upstanding flange on the support insertable within the said groove, and
 - h. means on the hanger detachably engageable with the handle.
2. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 1, in which,
 - b. the pail has a pair of generally flat faces oriented generally at right angles to each other.
3. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 1 in which,
 - b. the groove is generally flat at the position of insertion of the flange.
4. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 1 and,
 - b. a generally horizontal top on the hanger having at least one transverse hole,
 - c. a pin slidably mounted in said hole.
5. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 1 in which,
 - b. the said means load the handle under tension when the pail is generally horizontal.

6. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 1 in which,
 - b. a first pair of generally flat faces on the side of the pail oriented generally at right angles to each other, and,
 - c. a generally flat face on the side of pail intermediate said first pair of faces.
7. A hanger for a corner suspendable pail comprising:
 - a. a body member having a pair of vertically extending flat faces oriented generally at right angles to each other,
 - b. a generally horizontal bottom on the body member,
 - c. a generally upstanding flange on the bottom,
 - d. a generally horizontal top on the body member, and
 - e. vertically movable means mounted on the top for detachably engaging a handle.
8. A hanger for a corner suspendable pail comprising:
 - a. the structure in accordance with claim 7 and,
 - b. a generally horizontal top on the body member, the top having at least one transverse hole and,
 - c. pin means slidably mounted in said hole.
9. A hanger for a corner suspendable pail comprising:
 - a. the structure in accordance with claim 7 and,
 - b. a generally vertically extending intermediate flat face on the body member intermediate the first said pair of flat faces.
10. A hanger for a corner suspendable pail comprising:
 - a. the structure in accordance with claim 7 in which,
 - b. the upstanding flange extends horizontally away from the free edges of the vertically extending flat faces.
11. A corner suspendable pail and hanger comprising:
 - a. a pail having a bottom,
 - b. a pair of generally upstanding, spaced apart, flat wall portions on the bottom;
 - c. a third, generally upstanding, flat wall portion on the bottom intermediate the said pair of spaced flat wall portions,
 - d. a circumferential downturned lip on the top of the third flat wall portion defining a horizontal groove open at the bottom and generally closed at the top;
 - e. a hanger attachable to a support;
 - f. generally upstanding means on the hanger;
 - g. the said upstanding means being engageable with the said circumferential downturned lip on the top of the third flat wall portion.
12. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 11 and
 - b. a handle pivotally attached to the pail generally on opposite sides of the open top thereof, the handle being pivotal in the direction of the said third flat wall portion, and
 - c. means on the hanger detachably engageable with the handle.
13. A corner suspendable pail and hanger comprising:
 - a. the structure in accordance with claim 11 in which,
 - b. the downturned lip extends around the top edge of the pail.

60

65

70

75