Aug. 26, 1924. 1,506,028

E. E. PERRITT

DRAIN PAN

Filed Aug. 7, 1923

Fig. 1

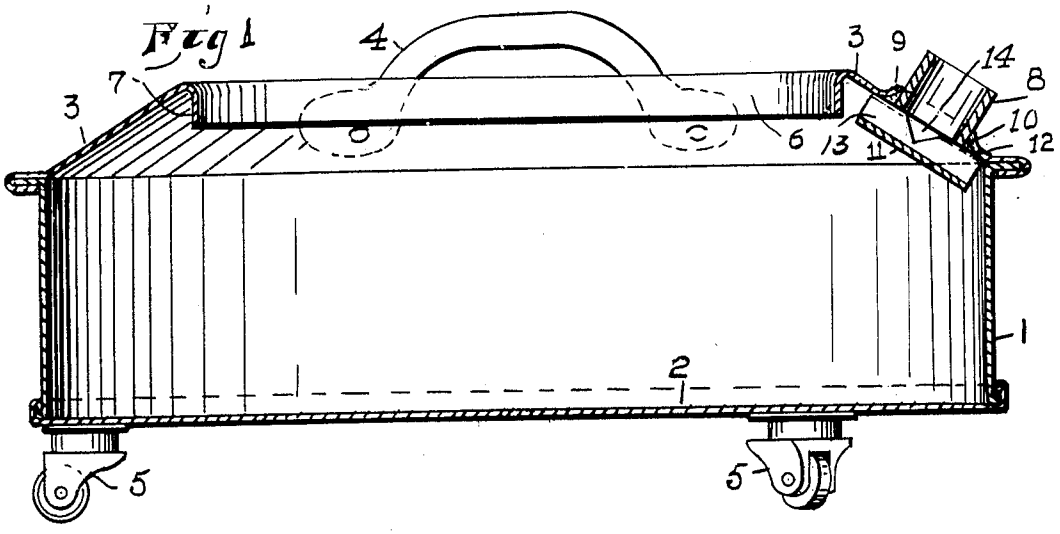


Fig. 2

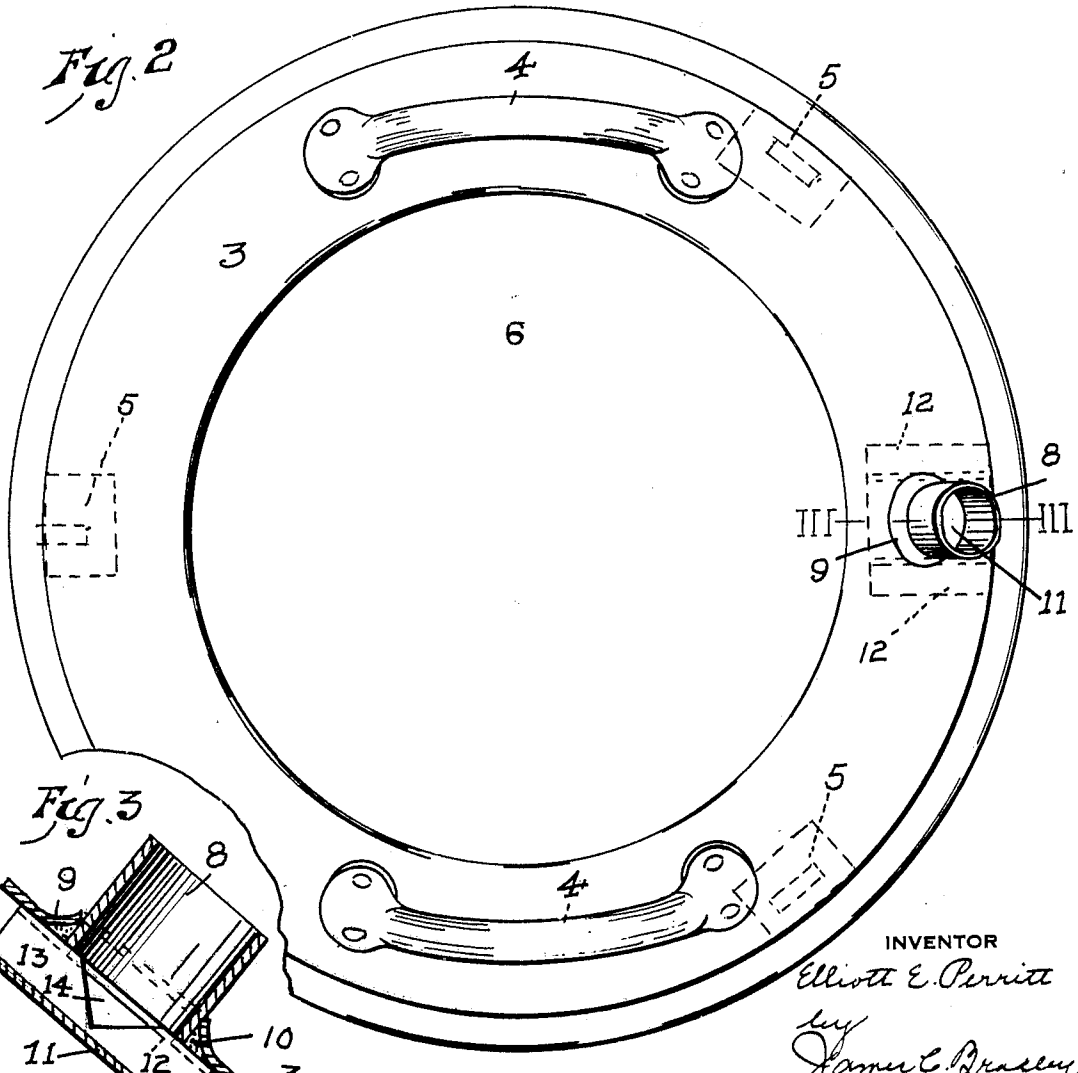


Fig. 3

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UNITED STATES PATENT OFFICE.

ELLIOTT E. PERRITT, OF PITTSBURGH, PENNSYLVANIA.

DRAIN PAN.

Application filed August 7, 1923. Serial No. 656,192.

To all whom it may concern:

Be it known that I, ELLIOTT E. PERRITT, a citizen of the United States, and a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have made a new and useful invention in Improvements in a Drain Pan, of which the following is a specification.

The invention relates to drain pans and is designed particularly for use in draining automobile crank cases, but is not restricted to use in such relation, as the pan may be used to advantage for other purposes. It has for its principal object, the provision of an improved drainage container which may be moved about freely without danger of splashing either through the wide open top or through the discharge spout, and the provision of a container which is easily handled and emptied. One embodiment of the invention is illustrated in the accompanying drawing wherein:

Figure 1 is a vertical section through the pan. Fig. 2 is a plan view. And Fig. 3 is an enlarged section on the line III—III of Fig. 2.

Referring to the drawings, 1 is the side wall of the container or pan, 2 is the bottom, and 3 is the top, all preferably made of galvanized sheet iron and secured together at their edges by the form of joints or seams illustrated, or in any other approved manner. The top 3 is provided with a pair of handles 4 preferably secured by rivets and the bottom is provided with three rollers or casters 5, preferably swiveled, and of the ball or roller type.

The top 3 is inclined upwardly from its outer to its inner edge and has a relatively wide opening 6, the inner edge being recurved to form the anti-splash flange 7. I have found that the upward inclination of the top reduces the tendency of the liquid in the pan to splash through the opening 6 when the pan is moved sidewise, such inclination supplementing the anti-splashing effect of the flange 7. The wave of liquid striking against the side wall 1 follows along the inclined top and is then directed downwardly along the flange into the body of liquid, so that the pan may be moved rapidly over a relatively rough floor, or handled roughly in dumping it without spilling or splashing the liquid through the top.

In order to empty the pan, the spout 8 is provided, such spout being preferably a short section of ordinary gas pipe. In order to seat the pipe in the top, such top is provided with a circular perforation of slightly less diameter than the outside diameter of the pipe, and the edge is then peened or bent out forming the flange 9 fitting around the pipe. Solder 10 is applied in the tapering recess between the flange and the pipe, this being done before the top 3 is secured to the side wall 1. This gives a cheap and very secure attachment of the pipe to the top.

To prevent the accidental escape of liquid through the spout when the pan is being moved about, a guard plate 11 of sheet metal is provided. This plate has its sides turned in and provided with flanges 12 (Fig. 3) bearing against the top and secured thereto by solder or rivets. When the vessel is tilted to pour from the spout 8, the liquid passes freely through the end openings 13 and through "V" shaped slots 14 cut in the turned in sides of the plate 11. Various other forms of guard plates might be employed.

In emptying the contents of the pan through the spout 8, the pan may be lifted bodily by the handles 4 and tilted, or the tilting may be started by turning the pan about the two rollers 5 on either side of the spout, such rollers being spaced equal distances laterally with respect to the spout as indicated in Fig. 2 in order to facilitate this action.

What I claim is:

1. In combination in a drainage pan, a body portion provided with three rollers or casters, an upwardly inclined top open at the center and having the inner edge recurved downwardly at an acute angle downwardly forming an anti-splash flange having its lower edge spaced away from the wall of said top and an outlet spout extending outwardly from said inclined top at substantially right angles thereto, the said rollers being spaced around the bottom of the pan so that the spout lies midway between two of them.

2. In combination in a drainage pan, a body portion provided with rollers, an upwardly inclined top open at the center and having its inner edge recurved downwardly forming an anti-splash flange, an outlet spout extending outwardly from said inclined top, and a guard plate secured in the pan opposite the inner end of said spout.

3. In combination in a drainage pan, a body portion provided with rollers, an upwardly inclined top open at the center and having its inner edge recurved downwardly forming an anti-splash flange, an outlet spout extending outwardly from said inclined top, and a guard plate secured in the pan opposite the inner end of said spout, said plate being spaced away from said top and being provided with inturned portions engaging the inner face of the top.

4. In combination in a drainage pan, a body portion provided with rollers, an upwardly inclined top open at the center and having its inner edge recurved downwardly forming an anti-splash flange, an outlet spout extending outwardly from said inclined top, and a guard plate secured in the pan opposite the inner end of said spout, said plate being spaced away from said top and being provided with inturned portions having openings therethrough and engaging the inner face of the top.

5. In combination in a drainage pan, a body portion provided with rollers, an upwardly inclined top open at the center and having its inner edge recurved downwardly forming an anti-splash flange and having a perforation therethrough with the edges thereof bent outwardly forming a flange, and a spout fitting inside said flange and secured in place by solder fitting in the recess between the side wall of the spout and the base of said flange.

In testimony whereof, I have hereunto subscribed my name this 3rd day of Aug., 1923.

ELLIOTT E. PERRITT.