May 17, 1949. J. B. BOTTEN 2,470,463

MAGAZINE FEEDBOX

Filed July 19, 1944

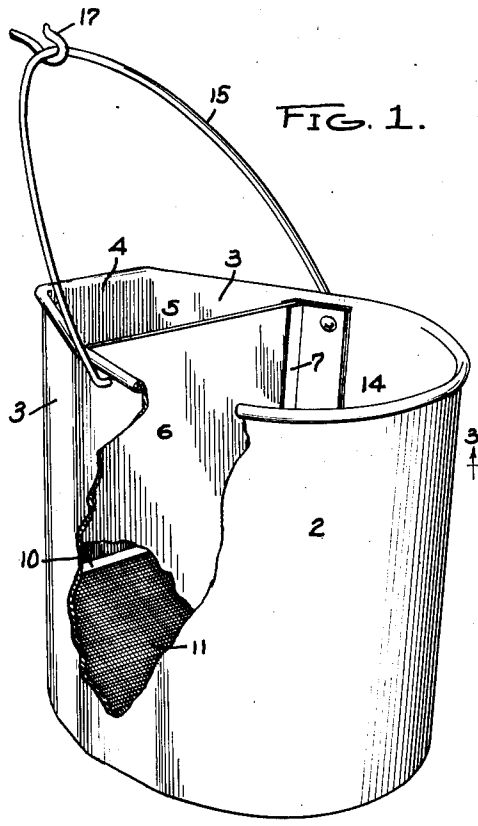


FIG. 1.

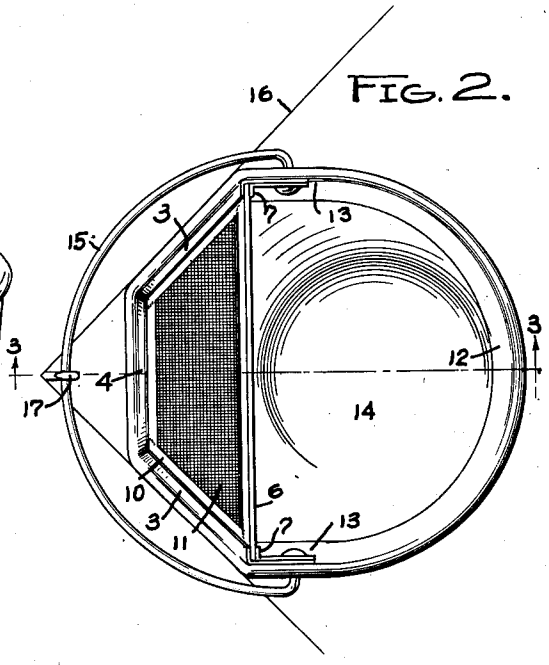


FIG. 2.

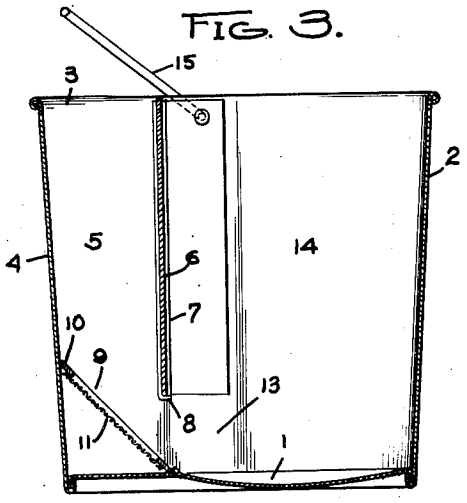


FIG. 3.

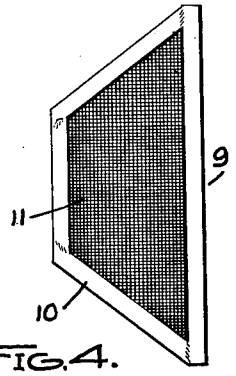


FIG. 4.

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MAGAZINE FEEDBOX

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1 Claim. (Cl. 119—65)

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This invention relates to a combined feed tub and water pail for horses or other animals.

One object of the invention is to provide an improved feed tub of generally pail form, specially shaped for securement or mounting in the corner or angle of a room or stall; which includes a feed magazine arranged to deliver the feed gradually and in small amounts; which can be stacked with others for shipment or storage; and which can be used as a pail or tub for carrying liquid or in the preparation of mash or for other purposes.

Further objects of the invention in part are obvious to horsemen and in part will appear more in detail hereinafter.

In the drawings which represent one suitable embodiment of the invention,

Fig. 1 is a perspective view, partly broken out to expose interior parts;

Fig. 2 is a plan view;

Fig. 3 is a sectional elevation on the line 3—3, Fig. 2; and

Fig. 4 is a detailed plan view of a separating screen.

The said tub shown in the drawings is of generally pail form, tapered slightly from top to bottom so that a series of tubs can be nested or stacked one in or upon another in compact form for shipment or storage. The tub consists of a bottom 1 and a side wall, marked generally 2, of special form in plan view. The top is open over the entire area of the pail.

The side wall includes a rear portion having two parts 3 which are flat or straight and inclined to each other at an angle of approximately 90°. With walls 4 and 6, they form a trapezoid in plan view and enclose a magazine chamber 5, the front wall of which, marked 6, is removable and separates the magazine chamber from the feeding chamber later referred to. It may be made, for example, of thin sheet metal with its side edges held and movable in channel guides 7, suitable stops 8 being bent laterally at the ends of said guides to hold or confine the lower edge of wall 6 a short distance above the bottom. The bottom of the magazine is provided, above the bottom 1 of the tub, with a sloping screen wire floor 9, shown in detail in Fig. 4. This floor may be fixed in place but preferably is removable from the pail. It includes a four sided frame 10, made, for example, of flat metal strips welded or otherwise secured together and supporting a panel 11 of fairly close mesh screen wire, secured to the frame as by spot welding or otherwise.

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The front portion 12 of the side wall 2 of the tub is generally semi-cylindrical, with its two opposite panels 13, which connect it to the side plates 3, flat and of planar form. This wall 2, together with the pail bottom and the wall 6, defines the feeding chamber 14. The bottom 1 of the pail, which lies beneath the feeding chamber 14 is preferably somewhat concaved or dished, so that feed will tend to flow to the center and avoid being trapped along the outer walls.

To support the pail it is provided with a suitable bail 15, made of any suitable material, such as a wire rod. The ends of the bail are detachably connected to the upper ends of side panels 13, as by passing through openings therein.

Fig. 1 illustrates the tub in position for use. It is seated in or closely fits the angle between the walls of the room or stall, indicated conventionally at 16. It is supported by hanging the bail 15 over a hook or other support 17. Feed is placed in the magazine compartment 5 and passes down and along and over the screen panel 11, which sifts out any fine dust or dirt from the feed, such as oats, thus purifying and cleaning the same.

The feed in the magazine chamber flows in small quantities through the opening beneath wall 6 into the feeding chamber 14, where it is accessible to the animal being fed. He is compelled to eat slowly, because he has access at one time to only a limited quantity of feed, and thus eats without waste of feed. This will tend to cure horses known to the trade as "slow eaters." The tub will not roll and tip like an ordinary round feed tub because it rests snugly in a corner, is supported between two walls and is braced by the rigid arms of the bail 15.

In addition to the foregoing the tub may be used as a water pail, in which case the partition wall 6 and screen panel 9 preferably are removed. When so used, the rear portion of the tub that ordinarily fits into the corner is of such shape and so bluntly pointed that it serves as an excellent pouring spout, as when mixing hot mash and the like.

The bail is preferably removable so that same can be taken out for repair, or for straightening, or when stacking a series of pails for storage or shipment.

Further advantages of the invention will be apparent to those skilled in the art.

What I claim is:

A combined feed receptacle and water bucket of the character described, comprising in combination, a container of generally pail form pro-

vided with body and bail members, the body including imperforate bottom and side wall members, the side wall member being slightly tapered for nesting purposes and including a curved front portion and a rear portion formed by two parts in planes at right angles to each other to closely fit a stall corner and an intermediate part providing a lip for use in pouring when the receptacle serves as a water bucket, a removable partition, opposite parallel supports therefor mounted on the container side wall member and extending vertically along the lines where the ends of the curved portion of the side wall meet those portions thereof which are at right angles to each other, said partition dividing the space within the container into magazine and feeding compartments and having its lower edge spaced from the container bottom to provide communication between said compartments, and an inclined screen removably mounted in the bottom of the magazine compartment opposite said opening, said screen sloping toward the opening and providing a refuse receiving pocket beneath it, the

bail having such contour as to enable the receptacle to be hung upon a support in the stall corner with its rear portion closely fitted between the walls thereof.

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