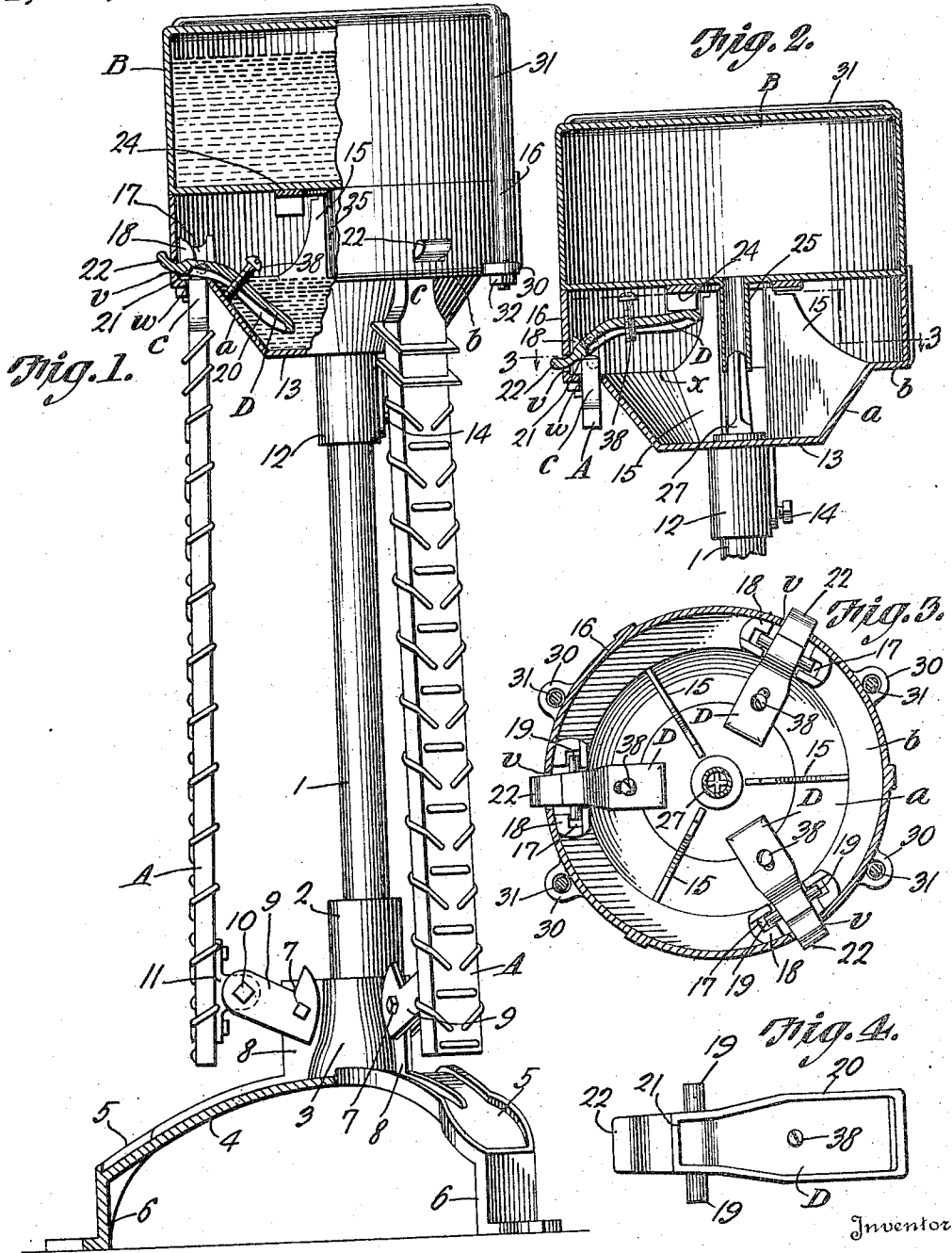


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HOG OILER.
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1,238,093.



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REUBIN H. BLOOMER, OF COUNCIL BLUFFS, IOWA.

HOG-OILER.

1,238,093.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, REUBIN H. BLOOMER, a citizen of the United States, and a resident of Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented certain new and useful Improvements in Hog-Oilers, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to certain novel improvements in hog oilers.

The primary object of my invention is to provide a hog oiler of simple construction, including a liquid-containing well, a paddle, and an animal-operated push bar, the construction being such that when the bar is actuated it will raise the paddle and allow the same to drop into the well to splash a quantity of liquid within the well upon said push bar.

Another object of my invention is to provide a hog oiler including an animal-operated paddle adapted to splash a pre-determined quantity of the liquid from a well over a rub bar actuated by an animal, with means to gage the supply of liquid distributed by said paddle.

A further object is to provide a hog oiler including a liquid-containing well having an inclined side with a hollow paddle movably secured to the upper edge of said well arranged to drop obliquely into said well to splash a portion of the contents of said well upon the upper end of an animal-operated push bar so that the liquid will drain down the bar and grease the animal operating the same.

With these and other objects in view, the present invention consists in the combination and arrangement of parts as will be hereinafter more fully described and finally pointed out in the appended claims, it being further understood that changes in the specific structure shown and described may be made within the scope of the claims, without departing from the spirit of the invention.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate similar parts in the several views:—

Figure 1 shows an elevational view with portions broken away of a hog oiler constructed according to my invention.

Fig. 2 shows an enlarged transverse sec-

tional view through the well and reservoir, disclosing a paddle in its raised position.

Fig. 3 is a section on line 3, 3 of Fig. 2.

Fig. 4 shows a bottom view of one of the hollow paddles as used in my invention.

In my present invention, I provide a hog oiler including a well having an inclined side within which are normally held a plurality of hollow paddles each of which is raised by means of an animal-operated push bar and which on their downward movement obliquely enter the well so that the paddle lies in a plane parallel to the inclined side, to splash a portion of the liquid within the well against the upper end of the push bar. Under these conditions, the push bars are normally covered with a liquid or medicinal preparation contained within the well so that every animal rubbing or leaning against one of these push bars will eventually be covered with the liquid.

In the accompanying drawings, 1 represents a suitable standard which is held within a sleeve 2 formed at the upper end of a boss 3. As shown, this boss 3 forms a part of a base standard 4 having the securing legs 6 by means of which the hog oiler is secured. As shown, the upper face of the standard is round or curved and ends in the lapping cups 5, within which any surplus liquid draining off of the rub bars will collect.

Projecting outward from the boss 3 are the ribs 8, and held within each rib 8 is a bolt 7, each bolt 7 giving pivotal support to a rock link 9, each rock link at its outer end carrying a bolt 10. These links 9 are obliquely held in such a manner that their upper ends lie in a plane above the pivot bolts 7 as shown in Fig. 1. Any suitable means may be employed to limit the downward movement of these rock links 9. Pivotaly secured to each bolt 10 is an ear 11, and each ear 11 is fixed to the lower end of a push or rub bar A. As shown these push bars are held immediately above the lapping cups 5.

Secured to the upper end of the standard 1 is a sleeve 12 extending from the flat bottom 13 of a well as used in my invention, this well having the inclined side or body portion *a* which at its upper end ends in an outstanding circumscribing flange *b*. As shown, the well is secured to the standard 1

by means of the bolt 14. This well is provided with the upstanding supporting flanges 15 which at their upper ends serve in supporting the reservoir which is held upon the circumscribing rim 16 forming a part of the well.

This rim 16 at a suitable point is provided with the apertures *v* each aperture being located adjacent to an opening *w* formed within the flange *b*. These openings *w* serve to hold the upper reduced ends *c* of the push bars A. Located upon opposite sides of each opening *w* and also adjacent to the apertures *v* are the ears 18 each ear 18 having a vertically extending slot 17 and slidably held within these slots 17 are the lugs 19 of the paddles D. Each paddle D is slightly curved and is provided upon what forms the under face with a skirting flange 20, these skirting flanges in effect making the paddles hollow. As shown in Fig. 4, the end 21 of the flange 20 ends at a point a little beyond the lugs 19, and extending from this end of the paddle is a curved, reduced ear 22. These curved ears 22 are arranged to be held within the apertures *v* while the lugs 19 are arranged to slide up and down within the slots 17 of the ears 18. As shown in the drawings, there is held upon the rim 16 and the supporting flanges 15 a reservoir B having the spout 25. In order to give a firm support to the reservoir B which is preferably made of sheet metal, I provide a ring 24 which is held upon the upper ends of the flanges 15. This ring is not absolutely necessary, although it serves in supporting the central part of the reservoir B. As disclosed in Fig. 2, the lower edge of the spout 25 ends a short distance below the upper face of the flange *b* so that under ordinary conditions, the level of the liquid within the well will be slightly below the edge of the face of the flange *b*. The liquid within the well forms a seal for the end of the spout when it reaches the same. As shown in Fig. 2, the drain openings *w* are at a point immediately adjacent to the upper edge of the side *a* of the well.

While I have shown a circular well, it is, of course, understood that the well may be rectangular or of any other suitable outline.

Removably held within the spout 25 is the tapering self-adjusting preferably metal stopper 27. This stopper is of such a size that the same can be firmly pressed into position with the finger. This prevents the oil from escaping after the well has been filled and prevents any of the liquid within the reservoir draining out of the spout until after the reservoir has been properly placed into position, after which the stopper drops out of the spout.

As shown in Fig. 1, the rim 16 is provided with suitable ears 30 within which are held the threaded ends of a bail 31 the lower

ends of which are provided with the nuts 32 so that the reservoir B cannot be removed without manipulating the nuts 32.

In order to limit the downward movement and control the flow of oil as the spoons splash into the well, I provide each paddle with a set screw 38, these set screws passing centrally through the paddle and being adapted to contact with the inclined side *a* of the well. In Fig. 1, the bolt 38 is shown as controlling the resting position of the paddle D.

The operation of this device is very simple.

As soon as any pressure is brought against the rub or push bars A, the same rises and the upper end of each push bar contacts with a spoon. This results in the spoon being raised entirely out of the liquid as shown in Fig. 2, the curved ends 22 serving as a fulcrum while the lugs 19 of the spoon prevent the same from becoming misplaced.

As soon as the pressure is removed from the bar A this bar by virtue of its weight instantly gravitates downward as does the metallic paddle D and as this paddle forcibly strikes or enters the oil, a pre-determined quantity of the oil or liquid within the well is forced upward within the hollow paddle and comes into contact with and covers the upper end of a push bar. A portion of the liquid is also splashed upon the flange *b* between the ears 18 and this oil also finds escape through the opening *w* and drains down the push bar A. The apertures *v* being above the opening *w* very little of the liquid finds escape through this aperture *v*. However, as shown in Fig. 1, these rub or push bars A are obliquely held so that their lower ends project outward farther than do their upper ends so that should any liquid escape out of the apertures *v* the same would finally drain or drop down upon the push bar below the same.

There are no valves to get out of order in connection with my hog oiler. The operation further is positive in that a pre-determined quantity of the oil or liquid will at all times be splashed against the upper end of the push bar. The machine further is simple in construction and readily operated, and there is little likelihood of the paddles getting out of order in the use of a hog oiler constructed according to my invention. The medicinal preparation further, contained within the well will eventually be distributed all over the animal using the machine.

Having thus described my said invention, what I claim as new and desire to secure by U. S. Letters Patent is:—

1. In a device of the character described, the combination of a supporting standard, a well adapted to contain a liquid secured to the upper end of said supporting standard,

a vertically reciprocating push bar pivotally secured to said standard, a splash paddle movably secured within said well and extending over said push bar whereby when said bar is actuated, said paddle is raised out of the well and permitted to drop into the same to splash portions of the liquid within the well upon said push bar, and means to limit the downward movement of said paddle.

2. In a device of the character described, the combination of a supporting standard, a well adapted to contain a liquid secured to the upper end of said supporting standard said well having an aperture, a vertically reciprocating push bar pivotally secured to said standard and extending through said aperture into said well, and a splash paddle movably secured within said well and extending over said push bar, whereby when said bar is actuated, said paddle is raised out of the well and permitted to drop into the same to splash portions of the liquid within said well against the upper end of said bar.

3. In a device of the character described the combination of a supporting standard, a well secured to the upper end of said supporting standard said well having an aperture, a vertically reciprocating push bar pivotally secured to said standard and extending through said aperture into said well, a reservoir supported upon said well having a discharge spout to supply a liquid to said well, and a splash paddle movably secured within said well and extending over said push bar, whereby when said bar is actuated said paddle is raised out of the well, and permitted to drop into the same to splash portions of the liquid within said well against the upper end of said bar.

4. The combination in a device of the character described, of a supporting standard, a well secured to the upper end of said supporting standard said well having an aperture, a reservoir to supply a liquid to said well, a vertically reciprocating push bar pivotally secured to said standard and extending through said aperture into said well, ears being located opposite said aperture, and a splash paddle having lugs held between said ears said paddle extending over said push bar whereby when said bar is actuated the paddle is raised out of the liquid and permitted to drop into the same to splash portions of said liquid against the upper end of said bar.

5. The combination in a device of the character described, of a supporting standard, a well secured to the upper end of said supporting standard having an outwardly extending flange with a circumscribing rim said flange having an aperture and said rim an opening adjacent to said aperture, a reservoir for supplying a liquid to said

well to a predetermined level, a vertically reciprocating push bar pivotally secured to said standard and extending through said aperture, and a splash paddle having a hooked end extending into said opening said paddle extending over said push bar, whereby when said bar is actuated said paddle is raised and permitted to drop into the well to splash portions of said liquid against the upper end of said push bar.

6. The combination in a device of the character described, of a supporting standard, a well having an outstanding flange from which is continued an upstanding rim said flange having an aperture and said rim having an opening adjacent to said aperture, of ears positioned adjacent to said aperture, a reservoir above said well to supply a liquid to the same to a predetermined level, and a splash paddle having lugs pivotally held between said ears and extending over said push bar, whereby when said bar is actuated said paddle is raised out of the liquid and permitted to drop into the same to splash portions of said liquid against the upper end of said push bar.

7. The combination in a device of the character described, of a supporting standard, a well secured to the upper end of said standard having a flange from which is continued an upstanding rim said flange having an aperture and said rim an adjacent opening, with ears positioned adjacent to said opening, a reservoir supported upon said rim having a discharge spout extending into said well the oil in said well forming a liquid seal for the end of said spout when it reaches a pre-determined height, a splash paddle having oppositely positioned lugs arranged to be movably held within said ears and a curved end hooked into said rim opening said paddle extending over said push bar whereby when said push bar is actuated said paddle is raised and lowered to splash portions of said liquid against the upper end of said push bar.

8. The combination in a device of the character described, of a supporting standard, a well secured to the upper end of said supporting standard having a rim with oppositely positioned ears, an opening being provided within said well between said ears, a reservoir supported upon said rim having a discharge spout extending into said well the liquid within said well forming a seal for the end of said spout when it reaches a pre-determined height, a vertically reciprocating push bar pivotally secured to said supporting standard, and extending through said aperture into said well, and a splash paddle having oppositely positioned lugs arranged to be movably held within said ears and extending over said push bar, all arranged, substantially, as, and in the manner set forth.

9. The combination in a device of the character described, of a supporting standard, a well secured to the upper end of said supporting standard having a plurality of apertures, a reservoir supported above said well having a discharge spout extending into said well, a plurality of vertically reciprocating push bars pivotally secured to said standard each having its upper end extending through an aperture into said well, and a plurality of splash paddles movably secured within said well each paddle extending over a push bar whereby when a push bar is actuated its corresponding paddle is raised out of the liquid and permitted to drop into the same to splash portions of the liquid against the upper end of said push bar.

10. The combination in a device of the character described, of a supporting standard, a well having a flange provided with a plurality of apertures from which is continued an upstanding rim said rim having an opening adjacent to each aperture, a reservoir supported upon said rim having a discharge spout extending into said well the liquid within said well forming a seal for the end of said spout when it reaches a pre-determined height, a plurality of vertically reciprocating push bars pivotally secured to said standard each bar extending through an aperture into said well, a plurality of splash paddles each having a hooked end held within a rim opening each splash paddle extending over and contacting with the upper end of a push bar, whereby when a push bar is actuated its connected paddle is raised and lowered to splash a quantity of the liquid within said well against the upper end of the push bar.

11. The combination in a device of the character described, of a supporting standard, a well secured to the upper end of said standard, said well having an aperture, a reservoir to supply a liquid to said well, a vertically reciprocating push bar pivotally secured to said standard the upper end extending through said aperture into said well, means to limit the upward movement of said push bar, means to limit the downward movement of said push bar, and a splash paddle movably held within said

well, and extending over said push bar, whereby when said push bar is actuated said paddle is raised out of the liquid and permitted to drop into the same to splash portions of said liquid against the upper end of said push bar.

12. The combination in a device of the character described, of a supporting standard, a base secured to said standard, a well secured to the upper end of said standard having an outstanding apertured flange and an upstanding rim having an opening adjacent to said aperture, a push bar, a link pivotally connecting said push bar at its lower end to said base, the upper end of said push bar extending through said aperture into said well, upstanding supporting flanges within said well, a reservoir supported upon said rim and said flanges having a discharge spout extending into said well, and a splash paddle movably secured within said well having its upper end contacting with said push bar, all arranged, as, and for the purpose set forth.

13. The combination in a device of the character described, of a supporting standard, a well comprising an outwardly flaring body ending in an outstanding flange having an aperture and continued in an upstanding rim having an opening adjacent to said aperture, a reservoir supported upon said rim having a discharge spout extending into said well the liquid forming a seal when it reaches a pre-determined height within said well, a push bar having its lower end pivotally secured to said standard the upper end of said push bar being held within said aperture, and a curved splash paddle movably held within said well and contacting with the upper end of said push bar whereby when said push bar is actuated the liquid within said well is forced upward between said flaring body and paddle to splash against the upper end of said push bar from which it drains downward.

In testimony whereof I affix my signature, in the presence of two witnesses.

REUBIN H. BLOOMER.

Witnesses:

GUSTAV G. MEYER,
FLORENCE CHAMBERS.