A. C. LA BUDDE.

KEG RINSER.

APPLICATION FILED MAY 1, 1909.

964,397.

Patented Apr. 5, 1910.

2 SHEETS—SHEET 1.

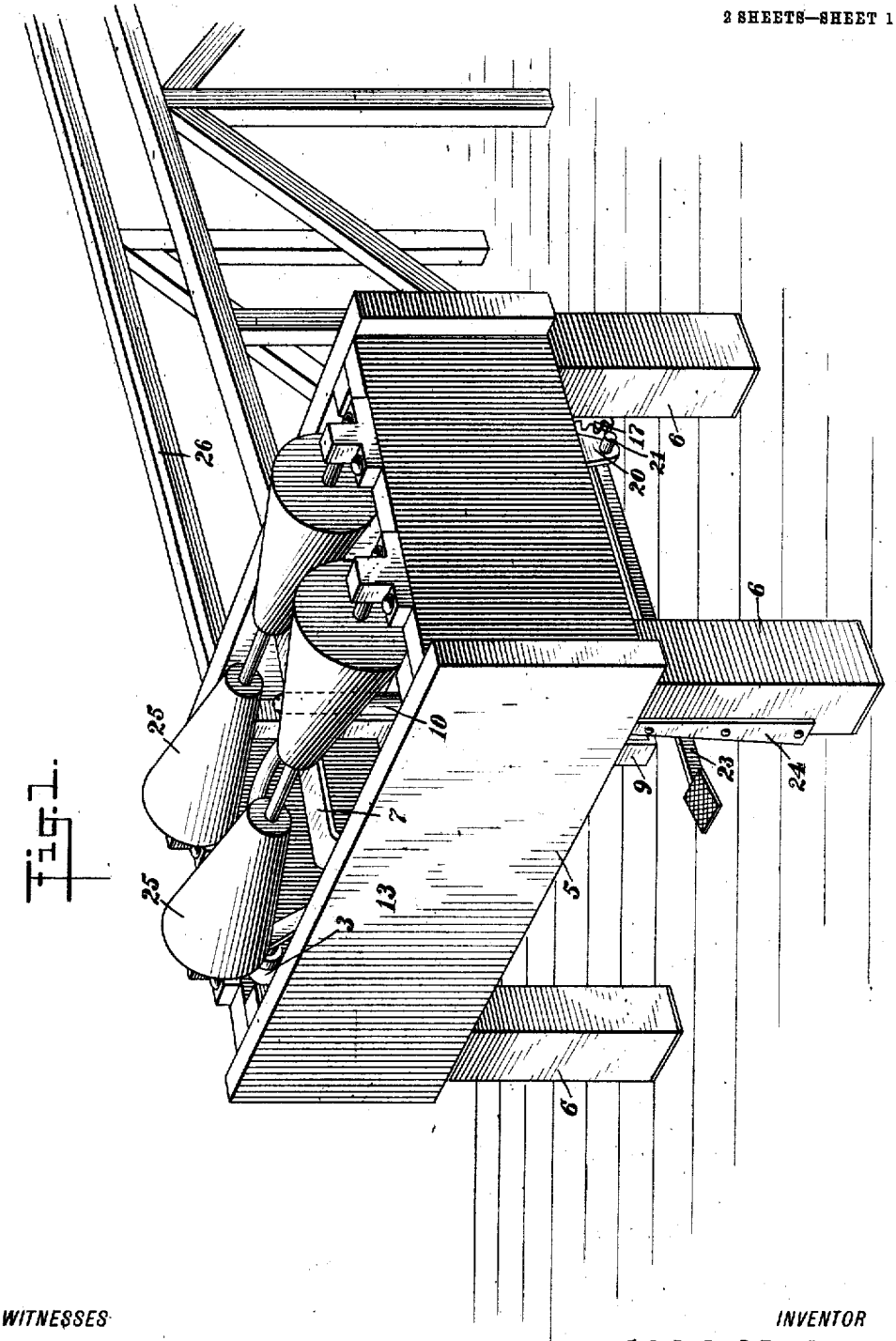

Fig. 1.

WITNESSES

INVENTOR

Adolph C. La Budde

BY Munn & Co.

ATTORNEYS

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2 SHEETS—SHEET 2.

Fig. 2.

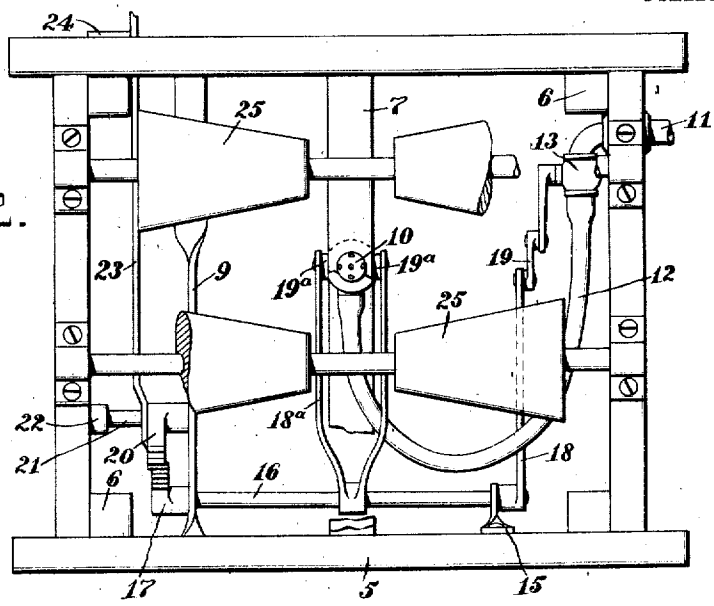
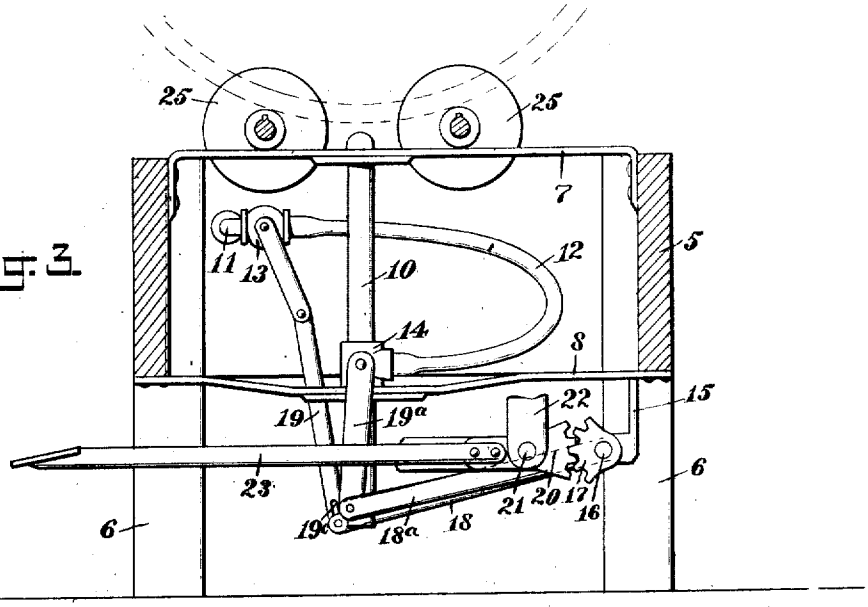


Fig. 3.



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UNITED STATES PATENT OFFICE.

ADOLPH C. LA BUDDE, OF ASHLAND, WISCONSIN.

KEG-RINSER.

954,397. Specification of Letters Patent. Patented Apr. 5, 1910.

Application filed May 1, 1909. Serial No. 493,316.

To all whom it may concern:

Be it known that I, ADOLPH C. LA BUDDE, a citizen of the United States, and a resident of Ashland, in the county of Ashland and State of Wisconsin, have invented a new and Improved Keg-Rinser, of which the following is a full, clear, and exact description.

The invention is an improvement in rinsers for beer kegs of all sizes, such as barrels, half barrels, quarter barrels and eighth barrels, and is designed to economize in labor and time, both in working the nozzle and the controlling valve or the water supply, and in properly positioning the keg to receive the nozzle, as well as to make the rinsing more effective.

The invention in general consists of a water supply conduit having a nozzle and a controlling valve, a foot lever operable to simultaneously project the nozzle valve into the keg and open the valve, and rollers to support the keg over the nozzle, each roller tapering toward the center to conform to the keg and facilitate its movement to rinsing position.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a keg rinser constructed in accordance with my invention, showing a skid leading thereto, generally from the scrubbing machine; Fig. 2 is a plan of the rinser with the rollers partly broken away to better disclose the construction underneath; and Fig. 3 is a vertical section through the machine, showing the position the keg occupies on the rollers, in dotted outline.

The several parts of the rinser are supported on a frame consisting of a box body 5 having supporting legs 6 arranged at the corners, with the sides of the box body connected together at or near the center by cross-braces 7 and 8, respectively arranged at the top and bottom. A further cross-brace 9 extends between the sides of the box body at or near the bottom and at one side of the brace 8. The braces 7 and 8 in addition to reinforcing the machine frame, carry near the center, bearings in approximately vertical alinement, in which is slidably received a nozzle, 10, the latter having spraying perforations in the top and connected with a water pressure supply pipe 11, through a hose 12, the pipe 11 leading into the box body of the machine and having a controlling valve 13. The connection between the hose 12 and nozzle 10 is effected by a T 14, which is arranged on the nozzle above the cross-bar 8 and is adapted to seat thereon and prevent the further downward movement of the nozzle when the latter is in its normally retracted position.

Journaled adjacent to the rear side of the machine in the cross-bar 9 and a hanger 15, is a shaft 16 having a gear or segmental gear 17 secured to one end, and an arm 18 fixed to its opposite end and connected with the arm of the controlling valve through the intermediary of a link 19, the latter being slotted at its connection with the arm 18, as indicated at 19^c, for a purpose hereinafter referred to. A forked arm 18^a is fixed to an intermediate point of the shaft 16 and is connected to the opposite sides of the nozzle by links 19^a. The gear 17 meshes with a similar but larger gear 20 carried on a short shaft 21, which is supported in the cross brace 9 and a hanger 22. Rigid with the gear 20 is a foot lever 23 extended to the front of the machine, where a plate 24 is attached to the adjacent leg 6 and is designed to engage with and lock the foot lever in a depressed position when the latter is forced down. At each side of the nozzle at the top of the machine frame is journaled a roller 25, each tapering from the outer ends inwardly, with the smallest portion of the roller arranged at the center. Each roller is preferably made of two half sections slightly separated and connected together by the central shaft, as shown.

The machine is generally placed at the end of the skid 26, which leads from the scrubbing machine, and as the kegs roll down the skid the operator reaches over and pulls the kegs onto the rollers of the rinser, and after examining the interior of the keg, by passing a candle or small electric light into the end or tap-hole, and looking through the bung-hole, he rolls the keg half way around so that the bung-hole comes over the rinsing nozzle. This positioning of the keg is facilitated by reason of the particular shape of the rollers, which tend to work the keg to the center. The foot lever 23 is then depressed and engaged with the lock plate 24, and by reason of the operative connections with both the nozzle and valve, the

nozzle is projected into the keg through the bung-hole and the valve is simultaneously opened, the nozzle rising slightly into the bung-hole of the keg before any movement is imparted to the valve, by reason of the slot 19ᶜ. The water passing through the spraying nozzle gives the interior of the keg a thorough rinsing, and when the foot lever is released, the weight of the nozzle, links and arms returns the parts to normal position, retracting the nozzle, cutting off the water and leaving the bung-hole of the keg clear, whereby any corks or pieces of bung will pass out of the keg with the out-flowing water.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a rinser for kegs and the like, a water supply conduit, a nozzle mounted to slide approximately vertically into and out of the keg and connected with said conduit, a foot lever having a gear in connection with its inner end, a shaft, an arm fixed to the shaft and having a link connection with the nozzle, and a gear fixed to the shaft and in mesh with the first mentioned gear.

2. In a rinser for kegs and the like, a water supply conduit having a controlling valve, a nozzle mounted to slide approximately vertically into and out of the keg, a hose connecting the conduit to the nozzle, a shaft, arms fixed to the shaft having link connections respectively with the nozzle and controlling valve, and means operating the shaft.

3. In a rinser for kegs and the like, a nozzle slidably mounted to move approximately vertically into and out of the keg, a water supply conduit having a controlling valve and connected to the nozzle, a shaft, means operatively connecting the shaft to the nozzle, an arm fixed to the shaft, a link operatively connecting the controlling valve to the arm, with one end of the link having a limited sliding movement with respect to the part to which it is connected, and means for operating the shaft.

4. In a rinser for kegs and the like, a water supply conduit having a rotary controlling valve provided with an operating arm, a nozzle mounted to slide approximately vertically into and out of the keg and connected with said conduit, a shaft, means operatively connecting the shaft to both the nozzle and the operating arm of the valve, and a lever to revolve the shaft.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ADOLPH C. LA BUDDE.

Witnesses:
TH. F. CULVER,
JOS. R. WERTIN.