

C. J. YERGASON.
Steaming Lard.

No. 103,116

Patented May 17, 1870.

Fig. 1.

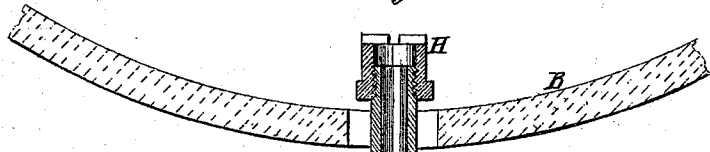


Fig. 2.

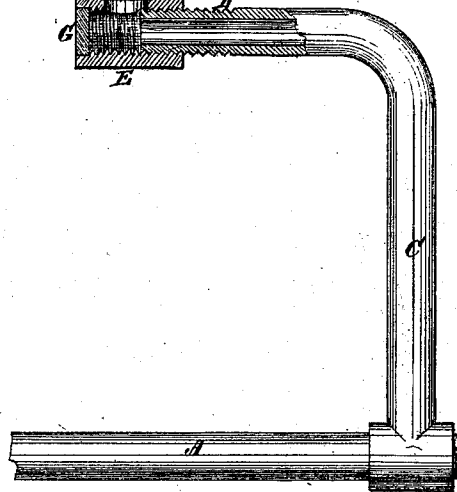
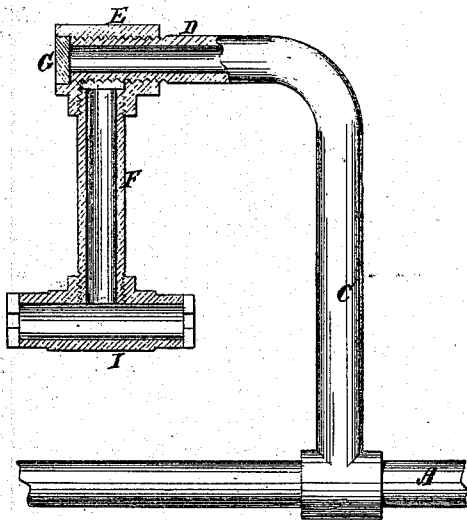
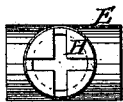


Fig. 3.



Witnesses:

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United States Patent Office.

CHRISTOPHER J. YERGASON, OF BROOKLYN, NEW YORK.

Letters Patent No. 103,116, dated May 17, 1870.

IMPROVEMENT IN APPARATUS FOR STEAMING LARD AND OIL-CASKS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHRISTOPHER J. YERGASON, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Apparatus for Steaming Lard and Oil-Vessels; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to improvements in apparatus for discharging steam into barrels and other vessels containing oil and other like substances, through the bungs or other openings, as is required in oil-refining and lard-repacking establishments, in removing the lard and oil and refining it; and

It consists in the application of nozzles or short discharging-tubes to the screw-threaded ends of steam-pipe by means of pipe T's, plugged at one end, and fitted to screw the plugs against the ends of the steam-pipe, for stopping the flow of steam, and adapted for being received in the bung-holes of the barrels containing the lard to be removed, the said barrels being placed over the nozzles.

The said arrangement is much less expensive than the cocks now used, and is intended as a substitute for them.

Figure 1 is a sectional elevation of my improved steaming apparatus, and a part of a barrel, showing the mode of operation;

Figure 2 is another sectional elevation of my improved apparatus, in the position when the steam is cut off; and

Figure 3 is a plan view of the discharging end of one of the nozzles.

Similar letters of reference indicate corresponding parts.

A represents the main steam-supply pipe, leading from the boilers along under the floor or framing for the support of the barrels or other vessels B, and provided with the lateral branches C, one for each vessel, rising upward and terminating in horizontal screw-threaded ends D, on which the screw-threaded and plugged T-shaped pipes E, having short discharging-nozzles F, are screwed, as shown, the ends D being

fitted to screw against the inner faces of the plugs G, so as to make steam-tight joints.

The said plugs may be faced with yielding packing substances, if preferred, or with soft metal, or other substances, against which the ends will readily pack tightly.

The ends of these nozzles F are provided with thin-plates H, with cross-slots or other perforations, calculated to distribute and direct the discharging-jets in the best manner, or T's I, provided with suitable discharging orifices, may be attached.

The barrels are placed in the required position on the floor or other support near the nozzles F, and the bungs are removed. The nozzles are then quickly turned on over the screw-threaded end D, so as to open the passage for the escape of the steam, to a greater or less extent, as required, and held so that, by a slight turn of the barrels, they will be received in the bung-holes, as represented in fig. 1, so that the discharging steam will come in contact with the contents in all parts of the barrel, and melt it and cause it to flow out.

The steam is not required to be under high pressure, and the pipes do not, therefore, require as perfect and expensive cocks and valves as those commonly used, for which these make very effective and cheap substitutes.

After the barrels are faced of their contents, they are turned back to let the nozzles escape from the bung-holes, and the latter are quickly turned to screw the ends up to the plugs G.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination, with the lateral pipes C, provided with screw-threaded ends D, of the nozzles or discharging-tubes F, and screw-threaded and plugged T-shaped pipes E, all arranged for operation, substantially as specified.

The above specification of my invention signed by me this 24th day of February, 1870.

CHRISTOPHER J. YERGASON.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.