

(No Model.)

B. KOTZ.
DISCHARGE PIPE FOR CHIP CASKS.

No. 535,167.

Patented Mar. 5, 1895.

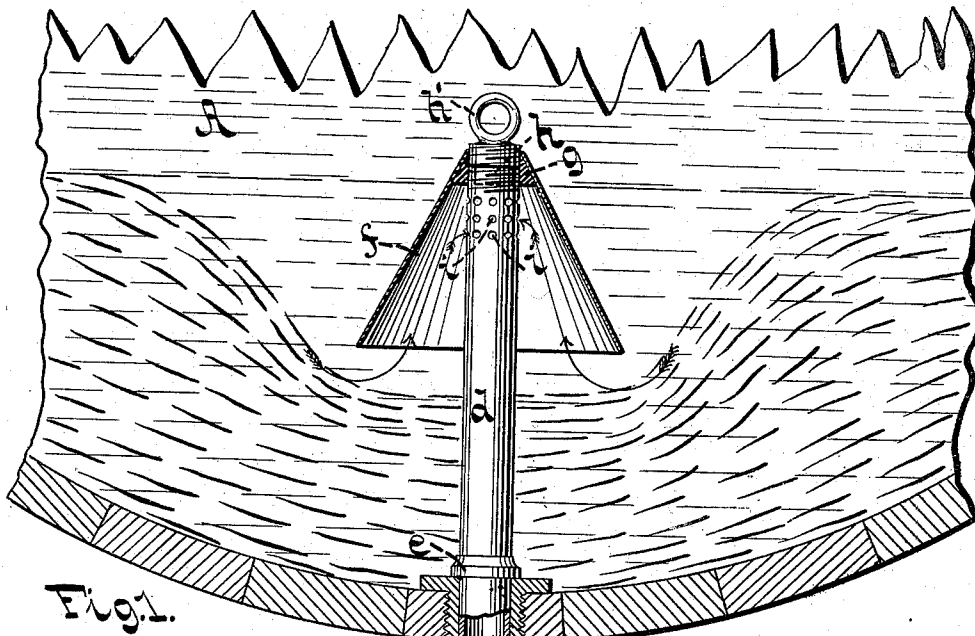


Fig. 1.

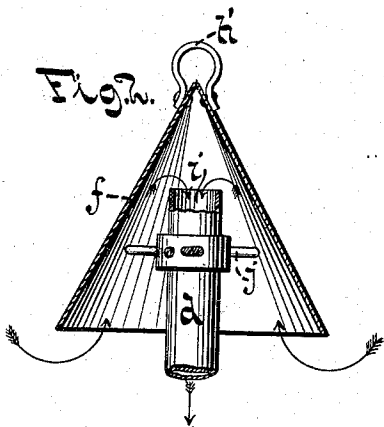
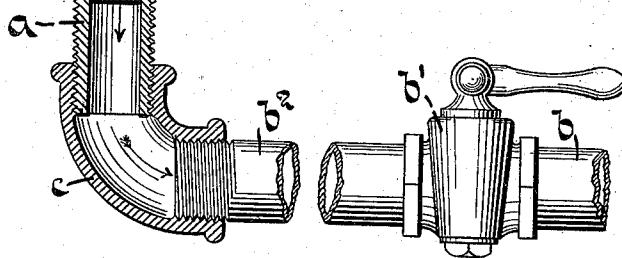


Fig. 3.

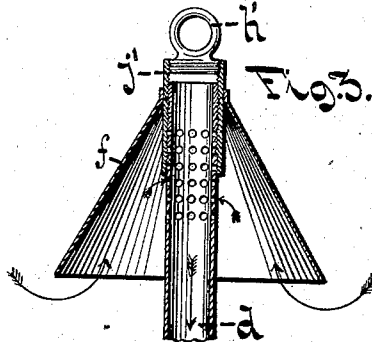


Fig. 4.

WITNESSES:

Klas H. Fernstedt.
J. M. Copenhagen.

INVENTOR:

Benedikt Kotz,
BY *Edw. W. Dount & Co.*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

BENEDICKT KOTZ, OF BROOKLYN, NEW YORK.

DISCHARGE-PIPE FOR CHIP-CASKS.

SPECIFICATION forming part of Letters Patent No. 535,167, dated March 5, 1895.

Application filed March 12, 1894. Serial No. 503,334. (No model.)

To all whom it may concern:

Be it known that I, BENEDICKT KOTZ, a citizen of the United States of America, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Discharge-Pipes for Chip-Casks, of which the following is a specification.

My invention has reference to an attachment for the discharge pipes of chip or shavings casks, and has for its object to enable the beer to be almost entirely racked, or drawn, from the cask without danger of carrying off the light matter which floats on the surface of the beer and descends with the same; or the sediment which deposits on and among the chips.

My invention has also for its object to permit the attachment to be readily removed so as to finally drain the cask directly through the discharge pipe.

The nature of my invention will best be understood when described in connection with the accompanying drawings, in which—

Figure 1 represents a sectional elevation of a chip or shavings cask provided with the attachment. Fig. 2 is a sectional elevation of a modified form. Fig. 3 is a sectional elevation of the attachment as provided with an adjustable hood.

Similar letters of reference designate corresponding parts throughout the several views of the drawings.

Referring to Fig. 1 of the drawings, the letter A designates a chip or shavings cask of a usual construction. In the outlet formed at the bottom of the cask is fitted in any usual manner a bushing *a*. To the lower end of this bushing the discharge pipe is connected by a hose connection *b*, valve *b'*, pipe *b²*, and any suitable fitting such as the elbow *c*. Into the upper end of the bushing *a* is fitted a vertical discharge tube *d* provided with a shoulder *e* resting on the bushing. The upper portion of the tube is surrounded by a hood *f* preferably conical in form and closed air tight at its top to form a bell open at the bottom only. The hood is secured to said tube in any suitable manner. In Fig. 1, I have shown the hood provided with a threaded thimble *g* at its upper end adapted to be screwed on the end of the discharge tube *d*. In this instance

the upper end of the tube is closed by a plug *h* and the inlet *i* to the tube is formed by a series of lateral openings. In Fig. 2, I have shown the upper end of the tube open to form the inlet *i* and the hood supported by means of a spider *j* secured to the tube. In each instance the tube is placed with its inlet at about the level of the chips, while the lower end of the hood is at some distance below the said surface of the chips.

A proper clearance space is formed around the hood by arranging the chips as shown in Fig. 1 at the time of their introduction into the cask. This clearance space may also be formed, or further cleared, by introducing the beer through the discharge pipe.

The casks, as usual, are under air pressure, and consequently the level to which the beer is drawn off is determined by the level of the bottom edge of the hood.

An inspection of Fig. 1, will show that the beer in being discharged from the cask must first pass downward through the clearance space and then upward inside of the hood before it reaches the inlet opening of the discharge tube. Consequently almost the entire contents of the cask can be drawn off without carrying away any of the sediment deposited on the chips. The floating impurities are caught by the upper layer of chips, for the reason that as soon as the hood takes air the discharge ceases. The hood also prevents the chips from clogging up the inlet of the discharge tube.

To drain off the beer remaining in the cask, the discharge tube *d* is drawn out of the bushing *a* through the open man-hole and a direct discharge is thereby obtained through the said bushing and the discharge pipe.

The beer drawn off from the cask through the discharge tube *d* is practically free from impurities and therefore the usual danger of clogging the filter is entirely obviated. The quantity of the beer drained off directly through the discharge pipe is reduced to a minimum and is also much clearer than usual.

In order that the level to which the beer is racked off may be varied if desired, the hood *f* can be made adjustable. Such a construction I have shown in Fig. 3, where the hood is mounted on a pipe *j*, closed at its top and threaded to engage a screw thread on the dis-

charge tube *d*. The hood is adjusted to the desired level before putting the device in place.

To facilitate the removal of the discharge tube, a suitable ring *h'* is secured to the top of the device, which ring can be reached by a bar through the man-hole.

What I claim as new is—

1. A device for discharging chip casks consisting of a bushing constructed to be secured in the outlet of the cask and provided with a socket at its upper end, a discharge tube having an inlet opening at, or near, its top and its lower portion fitted loosely to the socket in the bushing and provided with a shoulder resting on the upper end of said bushing for the purpose of supporting and holding said discharge tube while permitting its ready removal, and a hood secured to said tube and surrounding the upper portion thereof, substantially as and for the purpose set forth.

2. A device for discharging chip casks consisting of a bushing constructed to be secured in the outlet of the cask, a discharge tube having its upper end threaded and provided

with peripheral inlet openings, and its lower portion fitted loosely into the bushing and supported thereby, a hood screwed upon the tube and adjustable thereon, and an eye or ring attached to the top of the device for the insertion and removal of the same, substantially as and for the purpose set forth.

3. A device for discharging chip casks consisting of a bushing constructed to be secured in the outlet of the cask, a discharge tube having its upper end threaded and provided with peripheral inlet openings, and its lower portion fitted loosely into the bushing and supported thereby, and a hood screwed upon the tube and adjustable thereon, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 28th day of February, 1894.

BENEDICKT KOTZ.

Witnesses:

CHAS. W. THOMAS,
ISAAC ROTHSCHILD.