I. CONRADT.

Safety Taps for Casks.

No. 201,870. Patented April 2, 1878.

Fig. 1.

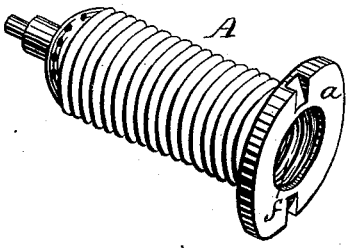
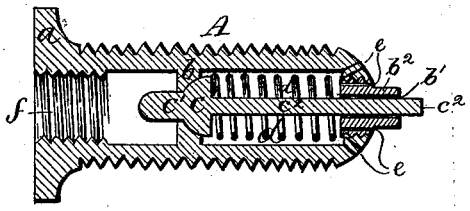


Fig. 2.



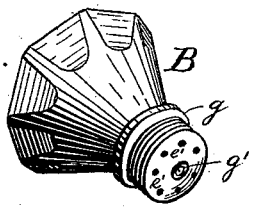
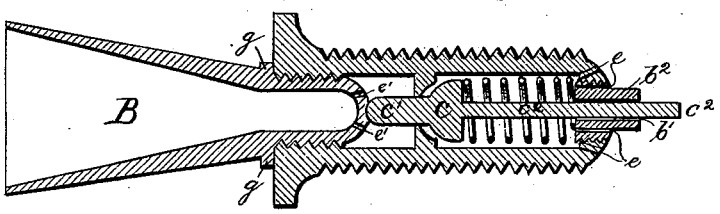


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

ISAAC CONRADT, OF UTICA, NEW YORK.

IMPROVEMENT IN SAFETY-TAPS FOR CASKS.

Specification forming part of Letters Patent No. **201,870**, dated April 2, 1878; application filed September 10, 1877.

To all whom it may concern:

Be it known that I, ISAAC CONRADT, of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Safety-Taps for Casks; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved safety-tap. Fig. 2 is a longitudinal section of the same. Fig. 3 is the faucet-holder used in combination with my invention. Fig. 4 is a sectional view of the tap, having the faucet-holder attached.

Similar letters of reference indicate corresponding parts in all the figures.

My invention relates to a safety-tap to be attached to casks containing fluids of every description and character, more especially malt liquors and other effervescent fluids, which, when the cask is tapped, are apt to spurt out with great force; and it consists, essentially, of a metallic tube, to be screwed or driven permanently into the tap-hole of the cask, it being provided with a spring-valve opening into the cask.

It further consists in the combination of said valve-tube with the devices for opening the valve and conducting the fluid, substantially as I shall now proceed more fully to describe.

In the drawings, A is a screw-threaded tube, having at one end a flange, *a*. This tube is to be screwed into the tap-hole of a cask or keg, and remain there permanently, the flange *a* only projecting beyond the head of the cask. Upon its inside the tube A has a circumferential flange or shoulder, *b*, forming a seat for a sliding valve, *c*, the head of which, c^1, projects through or beyond flange or valve-seat *b*, while its stem c^2 slides in a bearing, b^1, provided for it in a plug, b^2, closing the lower end of the tube. The plug b^2 confines in tube A a spring, *d*, working against the valve, around the stem of which it is coiled, and forcing it against its seat. The plug b^2 and the lower end of the tube have numerous perforations, *e e*, through which the liquor may flow when the valve is opened. The upper end of the tube has an interior screw-thread, as shown at *f*.

B is the faucet-holder, used in combination with the tap. This is a conical metallic tube, closed at the lower (narrow) end, and provided at the same end with an exterior screw-thread, fitting into the screw-thread *f* in the tap. A flange, *g*, prevents it from going in too far. This end of the faucet-holder has a seat, *g'*, for the head c^1 of the valve, which latter is thus, when the holder is screwed in, forced back from its seat, as shown in Fig. 4 of the drawings, so as to permit the escape of the fluid contained in the cask. The end of the faucet-holder is perforated at *e' e'*, thus permitting the fluid to escape through the faucet, which may be of any suitable construction, and which has been previously rammed into the holder.

It is obvious that, instead of using the holder, a faucet may be constructed to be screwed directly into the tap, its lower end being arranged, like the holder, to push the valve back from its seat.

From the foregoing description the operation of my invention will be perfectly understood. Its advantages will also readily suggest themselves to any one familiar with the handling of liquors. It permits a keg or cask to be readily and quickly tapped without spilling a drop of its contents, and, in the case of effervescent fluids, without giving the gas time to escape. Being perfectly close, it also prevents air from entering the cask.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The faucet-holder B, having perforations *e'* and seat *g'*, substantially as described, for the purpose herein set forth.

2. The combination of the safety-tap A, having spring-valve *c*, the head of which, c^1, projects beyond its seat, with the faucet-holder B, having seat *g'* for the valve-head, the said tap and holder being fitted with screw-threads, by which they may be connected together, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ISAAC CONRADT.

Witnesses:
JOHN J. CAHILL,
BAXTER R. WALDREN.