

A. C. CANIDA.
OIL PROTECTOR FOR COOLERS.
APPLICATION FILED JULY 16, 1908.

949,216.

Patented Feb. 15, 1910.

Fig. 1.

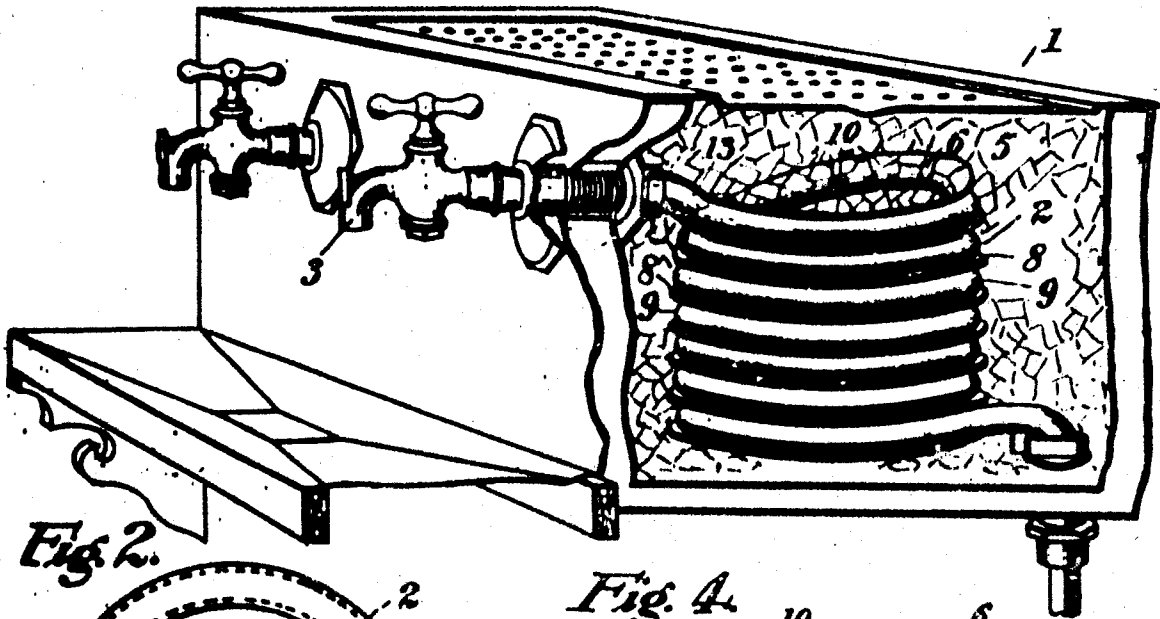


Fig. 2.

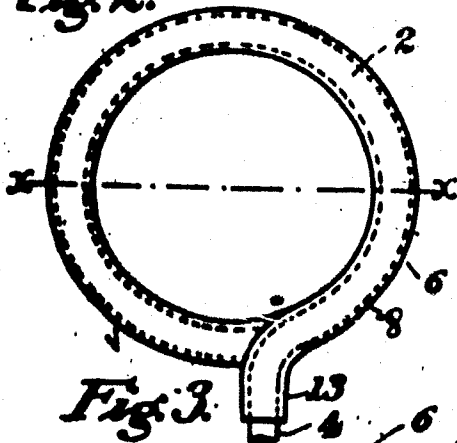
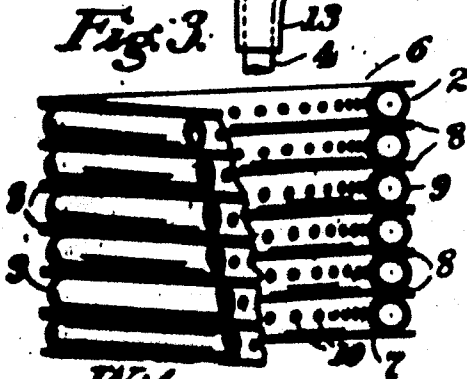


Fig. 3.



Wilnagor
Harry A. Cante
Cable Minniger

Fig. 4.

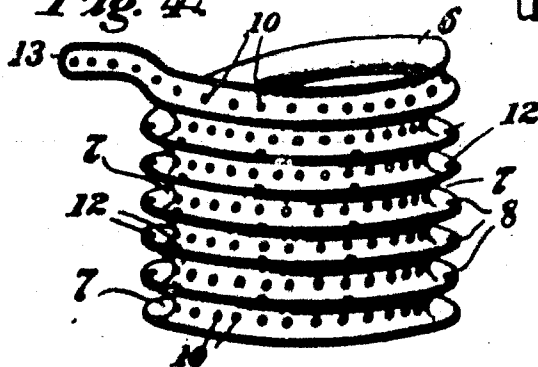
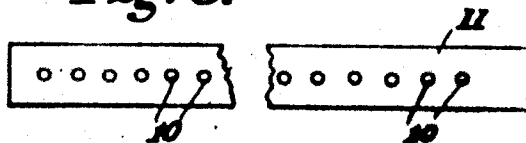


Fig. 5.



Inventor
Hugo C. Equida,
by R. A. Herbst,
Attorney

UNITED STATES PATENT OFFICE.

ALONZO C. CANIDA, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO LOUIS DEUTSCHLE, OF CINCINNATI, OHIO.

COIL-PROTECTOR FOR COOLERS.

949,916.

Specification of Letters Patent.

Patented Feb. 15, 1910.

Application filed July 16, 1908. Serial No. 443,916.

To all whom it may concern:

Be it known that I, ALONZO C. CANIDA, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Coil-Protectors for Coolers, of which the following is a specification.

It is the object of my invention to provide a protector of novel construction for the coiled piping in a cooler, and the invention will be readily understood from the following description and claims, and from the accompanying drawings.

I have illustrated my invention as applied to a beer cooler.

In the drawings: Figure 1 is a perspective view, partly broken away showing my improved device. Fig. 2 is a plan view of the coil-protector showing the same in connection with the piping. Fig. 3 is a front elevation of the same partly broken away and partly in section on the line $x-x$ of Fig. 2. Fig. 4 is a separated view of the protector shown as of spiral form constructed out of a narrow sheet; and, Fig. 5 is a plan view of the blank for the same, partly broken away.

1 represents the ice-box or cooler, which may be of any suitable construction, and is arranged to have the coil of piping 2 therein, through which the beer or other beverage passes to the faucet 3, from which latter the beer or other beverage is dispensed. The coil of piping may have an extension 4 projecting therefrom, which connects with the inner end of the dispensing faucet. The coil of piping is arranged in a bed 5 of cracked ice.

It has been a practice heretofore to arrange the coil of piping in a bed of cracked ice in an ice-box and in order to force as much ice as possible into the ice-box it has also been the practice for the porter or bartender to ram down the ice in the box and inside and about the coil with the butt end of a heavy stick, the ice being frequently missed in practice by the end of the stick and the coil receiving the impact of the blow. This coil in practice is made of black tin, which is comparatively soft, the consequence being that the blows of the ramming stick in time flattened out the upper turns of the coil of piping, which then had to be removed or replaced.

In my improved construction I prevent the injury to the coil of piping by providing a coil-receiving protector 6 which is provided with a groove 7 arranged spirally on the protector, in which groove the coil of piping 2 is received for protecting the same against the blows of the rammer. The protector is preferably hollow. Flanges 8 preferably overhang the coil at the sides of the turns of the coil of piping for overlapping the exposed faces 9 of said turns of piping, and the walls of the grooves are preferably provided with perforations 10 through which the ice and moisture therefrom may contact the coil of conducting pipe.

I prefer to construct the protector out of a narrow strip of sheet metal, shown at 11, which is provided with the perforations 10 and is formed into grooved and spiral form as shown in Fig. 4, the turns of the protector being brought together and suitably secured to each other as by rivets 12. The turns of the beverage-conducting coil of piping are laid within the groove for being protected thereby. At its upper edge the protector is preferably provided with a grooved extension 13 which extends toward the dispensing faucet for protecting the extension 4 of the coil of piping between the protector and the faucet.

I prefer to make the protector of brass, being a metal which is sufficiently hard to withstand the blows of the rammer and little subject to corrosion by ice or the moisture therefrom, and protecting the soft tin piping laid within its grooves, the tin piping in practice having been found more suitable for beer and similar beverages, as it does not have deleterious effect on the same. In my improved device injury to the coil of piping is avoided while at the same time the cooling effect of the ice on the beer or other beverage is retained.

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

1. A protector for the beverage-conducting coil of piping in an ice-box consisting of a hollow casing comprising a narrow band of metal bent so as to be of grooved form in cross section and arranged in successive superposed spiral layers, the mouth of the groove of said protector opening laterally whereby there is formed a spiral groove having successive superposed convolutions open

ing outwardly in which said beverage-conducting coil of piping is arranged to be spirally received in manner to expose the outer face of said spirally arranged beverage-conducting coil of piping to direct contact with the ice.

2. In a coil protector for a cooler, the combination of an ice-box, a coil of beverage-conducting piping therein, and a hollow protector for said coil of piping having a spiral groove composed of a plurality of superposed spirals, and in its face in which said coil of piping is received, said protector having flanges at the sides of the turns of said coil of piping extending beyond the exposed faces of said turns of piping and forming a spiral flange of successive superposed convolutions between the successive spirals of said piping, substantially as described.

3. In a coil protector for a cooler, the combination of an ice-box, a dispensing faucet for said ice-box, a coil of beverage-conducting piping in said ice-box having an extension connecting with said dispensing faucet, and a hollow protector for said coil of piping

having a spiral groove open laterally outward in its face and comprising successive superposed convolutions in which said coil of piping is received and provided with a grooved laterally open extension projected toward the inner end of said dispensing faucet and the groove whereof is a continuation of said spiral groove and received about said extension of said coil of piping, substantially as described.

4. The combination with a coil of piping composed of superposed convolutions, of a hollow casing therefor, and separating and protecting flanges disposed between the respective convolutions of the said coil in superposed relation to one another whose edges extend laterally beyond the respective convolutions of said coil.

In testimony whereof, I have subscribed my name hereto in the presence of two subscribing witnesses.

ALONZO C. CANIDA.

Witnesses:

ADOLF MEININGER,
COLLEMAN AVERY.