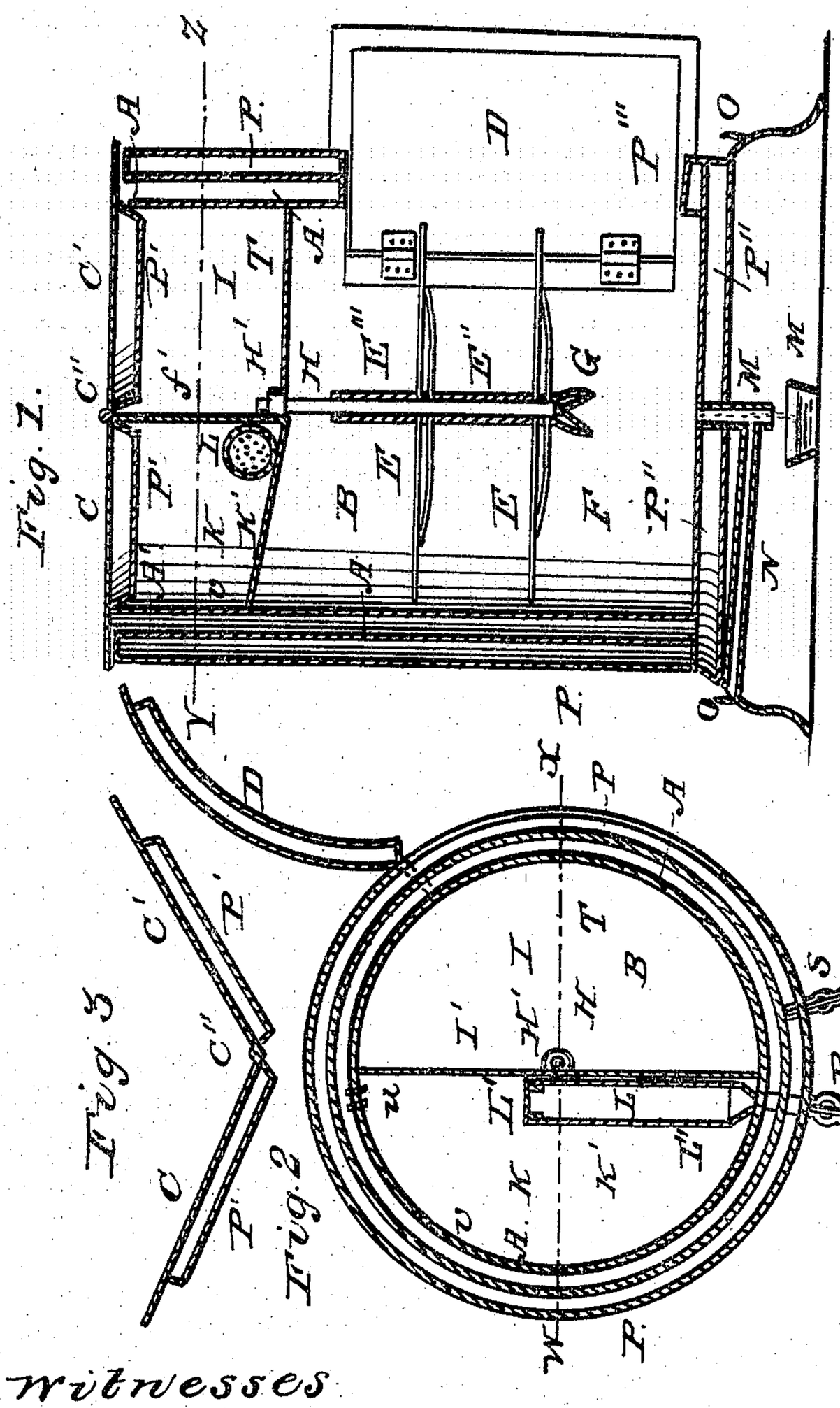
COMSTOCK & CHERRY.

Refrigerator.

No. 83,467. Patented Oct. 27, 1868.



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LEVI RICHARDSON COMSTOCK AND JAMES N. CHERRY, OF KEOKUK, IOWA.

Letters Patent No. 83,467, *dated October* 27, 1868.

IMPROVED REFRIGERATOR AND COOLER.

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

To all whom it may concern:

Be it known that we, LEVI RICHARDSON COMSTOCK and JAMES N. CHERRY, of the city of Keokuk, county of Lee, and State of Iowa, have invented a new and useful Improvement in Water-Coolers and Refrigerators; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a vertical section of our improved apparatus, on line W–X, fig. 2.

Figure 2 is a horizontal section of the same, on line Y–Z, fig. 1.

Figure 3 is a vertical section of the top lids, removed.

This invention consists of a combination of parts, and their formation and arrangement to make a water-cooler and refrigerator for general use.

We make our apparatus, as shown in the drawings, and set forth herein, with some modifications for different kinds of use.

We use the following features, which have been put to corresponding use before, (see patents of J. Scott, July 10, 1840, and J. W. Bartlett, April 14, 1863:)

First. We make a combination of water-cooler and refrigerator.

Second. We form our apparatus of an upright cylindrical shape.

Third. We construct it of sheet metal, or equivalent.

Fourth. We form the outside walls double, or non-conducting to heat.

Fifth. We place a door in the side, swinging on hinges.

Sixth. We use ice or water for cooling, with ice-space in the top part.

Seventh. We form a chamber around the refrigerating-chamber, that can be used for water.

Eighth. We employ one or more shelves revolving about a central shaft.

Ninth. We can use a faucet on the side, near the bottom.

Tenth. We have a lid on top, to reach the ice-and-water chamber.

Eleventh. We add a filtering-strainer.

These are all the features we use having any existence in said patents, we believe, and we hereby disclaim them.

We make our outside walls of sheet-metal, and hollow, enclosing dead-air spaces, P P′ P″ P‴, or other non-conductor of heat. Inside of this P P we add, around the sides of the cylinder and refrigerating-space B, an additional wall, enclosing another space, A A, which, enclosing dead air, serves to complete the protection from heat materially.

This space or chamber, A A, we provide with a faucet, S, at the side, near the bottom, so that it may be used for holding water, if desired. We make this space, A, open at the top A′ A′, all around, when the lids are off, and shut it off from under the door D, and arrange it so as to have no fixed parts above any portion of it, so that it may be freely inspected, and cleaned out, in case of use for holding drinking-water. This is a feature not to be found in the patents referred to.

In the lower part of our refrigerator-chamber, B, we place across, from side to side, the part G, to support the lower end of our centre-shaft, H, also removable, the upper end having a bearing at H′. Around this shaft, H, we mount shelves, E E′, with loose sleeves, E″ E‴, to steady and support the shelves, allowing them to turn freely, the whole being removable to accommodate articles of larger size or shape. Under bar G we have a space, F, with no central shaft, to take in large pans, &c. Or we can make the bottom of the refrigerator removable, and fix the centre-shaft H directly to it. For use in cooling bottles and their contents, we cut out spaces in one shelf like a caster, for the bottles, letting them rest on the lower shelf. For saloon-purposes, we can add a pan with perforated bottom, or a shelf to hold broken ice.

None of these features are found in the patents referred to.

We make, in our combined water-cooler and refrigerator, an extra chamber, I, separated from B, containing the revolving shelves E E′, by a cross-floor, T, removable, but fitting close, to prevent articles exchanging flavor.

We form a lid, C′, to the refrigerator-chamber I, and through T to B, to reach them from the top, besides the door D at the side, and for taking out the shelves E E′, &c.

We make the whole top removable, of two lids, C C′, hinged together at C″, so either may be lifted, one into the ice-part K, and the other into chamber I, or all together taken off for inspecting and cleaning chamber A, when used for water. Over the top of all, and under the lids C C′, we place a flannel cloth to close the joint air-tight, and assist in keeping cool and saving ice.

We run a short pipe, M, down through the bottom, from the refrigerating-chamber B, to run the drippings into a vessel at M′. Around the outside wall, at the bottom, we run a trough, O, to gather the outside drippings. From this trough we run a pipe, N, to the pipe M for discharge.

We form an ice-chamber, K, with walls, I′ V, around it, with a faucet, R, to draw off water. At one side a hole, U, is made to close by a plug, by which water may be be let into the chamber A, if wanted.

We make a tube, L, of any suitable shape, with one end contracted, to fit into the inner end of the faucet R. A perforated cap, L′, at one end, and a like diaphragm at the other, retain charcoal, sponge, or other

suitable substance, to strain or filter, if needed. This is removable.

We incline the bottom, K′, of the ice-chamber K inward to the centre of the apparatus, to the wall I′, so that ice will rest against wall I′, and cool the whole apparatus from the centre, away from the outside; or the whole top may be made into an ice-chamber.

What we claim is—

1. The combination of the ice-chamber K with the horizontal detachable strainer L, and chamber I, and hinged lids C C′, as and for the purpose specified.

2. The combination of the non-conducting chambers A P, and the trough O, and pipes N and M, as and for the purposes specified.

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