

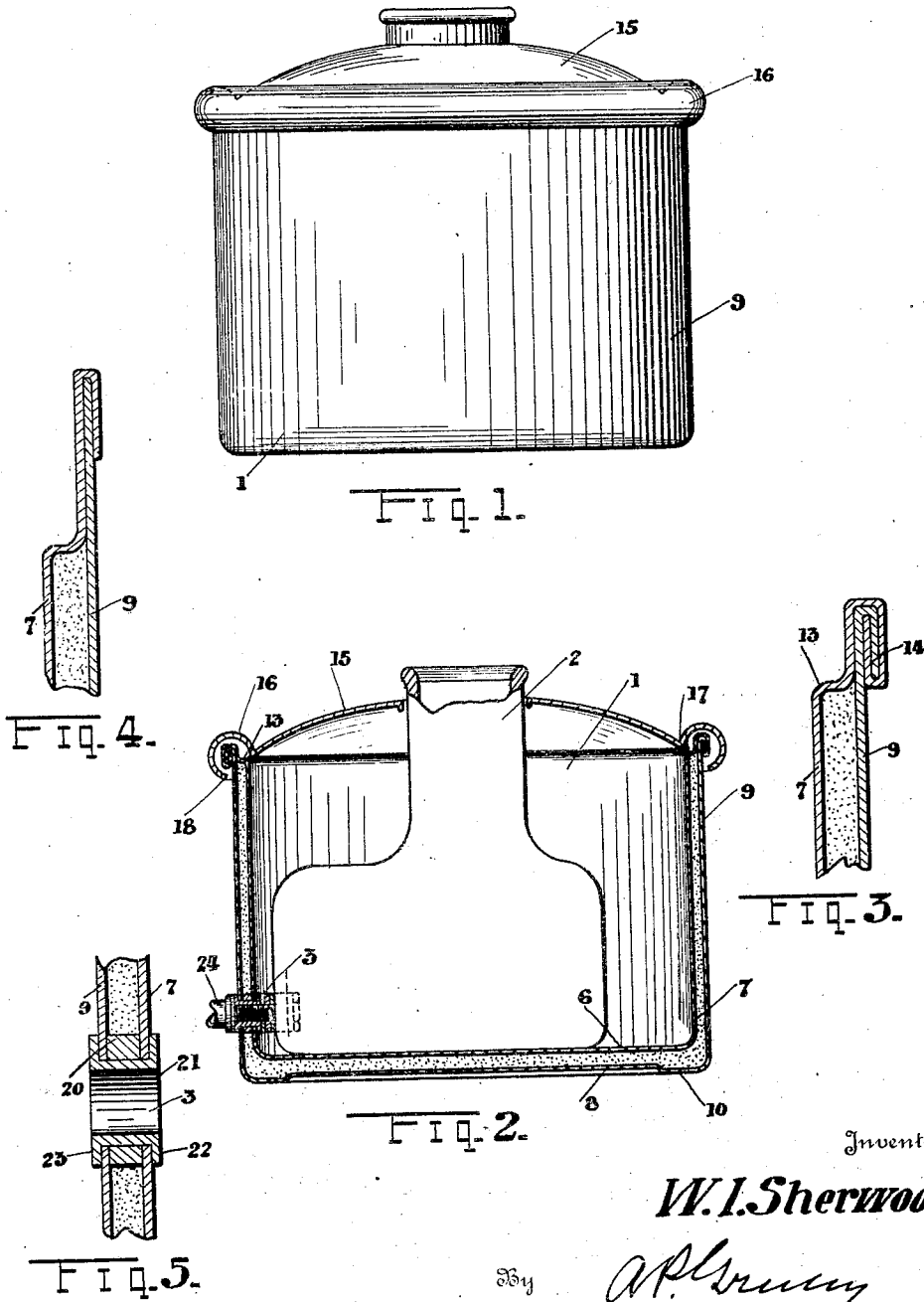
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WATER COOLER

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Inventor

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By

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UNITED STATES PATENT OFFICE.

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WATER COOLER.

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To all whom it may concern:

Be it known that I, WILL I. SHERWOOD, a resident of the city of Montclair, county of Essex, and State of New Jersey, and a citizen of the United States, have invented certain new and useful Improvements in Water Coolers, of which the following is a specification, reference being had to the accompanying drawing forming a part thereof.

My invention relates to tanks for water coolers of the type in which an inner water jar or container, for the water to be cooled is arranged within an outer tank in which ice is placed about the water jar, and relates particularly to the construction of the outer or ice tank and its cover.

My invention has for its object to provide an ice tank with double walls of sheet metal united at their upper edges by a seam and a cover for such ice tank so constructed that when the cover is in place it will protect the seam against injury.

With the objects above indicated and other objects hereinafter described in view my invention consists in the construction and combination of elements hereinafter described and claimed.

Referring to the drawings:—

Figure 1 is a side view of a water cooler embodying my invention.

Figure 2 is a central vertical sectional view of the same.

Figure 3 is a detailed sectional view of the upper edge of the body.

Figure 4 is a view similar to Figure 3 but showing the seam as it appears after the first fold is made.

Figure 5 is a detail view of the faucet opening.

In the drawings 1 indicates the ice tank or container of a water cooler and 2 indicates the water jar or container for the water to be cooled by the ice within the ice tank about the water jar. An outlet 3 leads from the water jar near its base, through the wall of the ice tank.

The ice tank is formed of two sheet metal vessels each formed without seam by stamping or drawing from a single sheet of metal the inner vessel comprising a flat bottom 6 and vertical walls 7 and the outer vessel comprising a bottom 8 substantially flat but having near its periphery an annular downward projection 10, and vertical walls 9.

Between the bottoms 6 and 8 of the respective vessels and their walls 7 and 9 is placed a filling of non-heat conducting material such as asbestos or other non-metallic material.

Near its upper edge the wall 7 of the inner vessel is inclined outward into contact with the wall 9 of the outer vessel and extends upward from the point in contact with the wall 9 extending somewhat above its upper edge and is folded over as shown in Figure 4 into close contact with the outer face of wall 9 thus enclosing its upper edge. The folded upper edge of wall 7 with the enclosed upper edge of wall 9 are then folded outward and downward against the outer face of the wall 9 as shown in Figure 3 thus forming a double seam 14 outside the line of the outer face of the outer wall 9 and leaving no crevice into which water can enter from above.

15 indicates the cover for the ice tank, having a central opening for the neck of the water jar or container 2. This cover is convex on its upper face and at its periphery is provided with a bead 16 arcuate in cross section extending upward from a line 17, outward and downward terminating at 18 in an edge adapted to fit nearly against the outer face of the wall 9, the bead thus enclosing the upper edges of the walls 7 and 9 and the seam 14.

The portion of the bead which extends upward from the line 17 is adapted to fit the outwardly curved portion 13 of the inner wall 7 and to make a relatively tight joint therewith. The outwardly and downwardly curved portions of the bead enclose and protect the upper edges of the walls and the seam by which they are united and also serve to give an attractive finish to the upper edge of the ice tank.

At each of the openings 3 for the faucets a collar 20 is inserted between the wall 7 of the inner vessel and a thimble 21 is inserted through this collar and through the openings in the walls and its ends, after applying white lead thereto, are spread outward into contact with the respective walls as shown at 22 and 23. When the faucet is in place the ends 22 and 23 are held in close contact with the walls 7 and 9 and any tendency to work loose is prevented.

Having thus described my invention what I claim is:—

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An ice tank for water coolers comprising sheet metal inner and outer members spaced apart at bottom and sides and having the space between their bottoms and sides filled
5 with non-conducting material the upper edge of the side wall of the inner member being flanged outward into contact with the inner face of the side wall of the outer member to form a supporting ledge and
10 united thereto by a double seam folded out-

ward and downward into contact with the outer face of the side wall of the outer member, and a cover having an annular downwardly extending projection adapted to rest on said supporting ledge, and having outside said annular projection an annular bead adapted to enclose the said double seam. 15

In testimony whereof I hereto affix my signature.

WILL I. SHERWOOD.