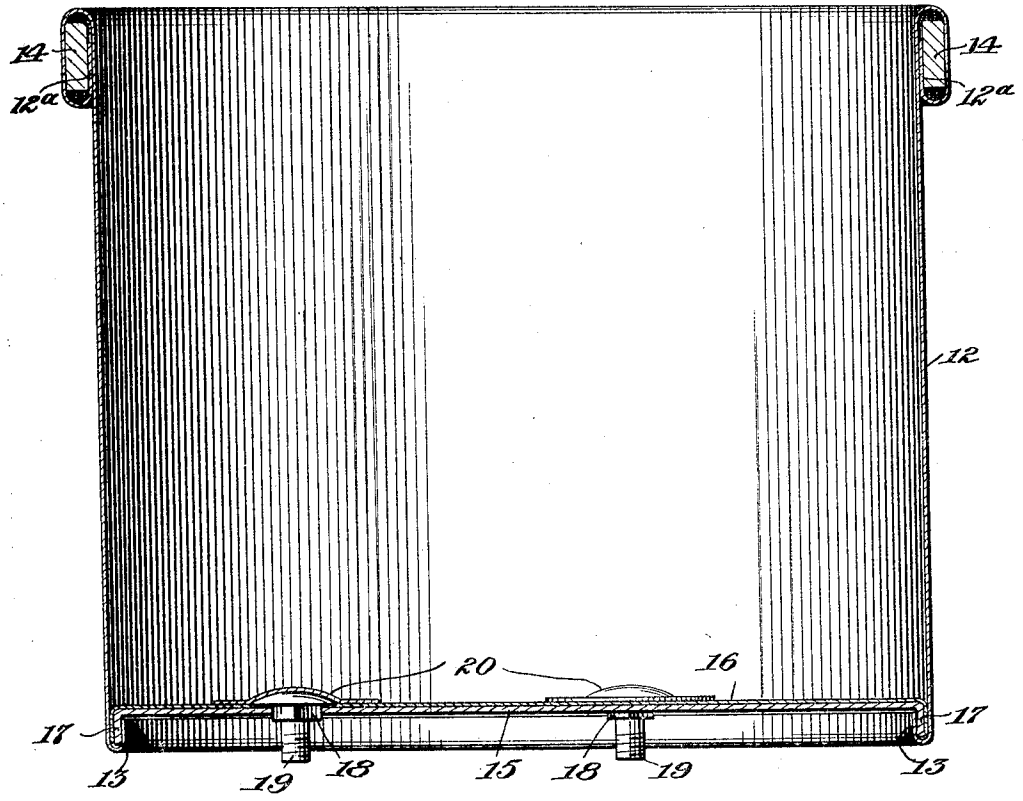
Dec. 8, 1925. 1,564,658

C. A. XARDELL

TANK

Filed July 3, 1923



Inventor:
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UNITED STATES PATENT OFFICE.

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TANK.

Application filed July 3, 1923. Serial No. 649,288.

To all whom it may concern:

Be it known that I, CHARLES A. XARDELL, a citizen of the United States, residing at Utica, in the county of Oneida and State of New York, have invented or discovered certain new and useful Improvements in Tanks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention has for its object to provide a tank for use in washing machines or the like which will have a bottom of great strength, so as to carry the load safely, but which will have a rustless interior. This improved tank has a body of copper, but if the bottom were entirely of copper and were made sufficiently heavy to properly support the load in the tank too much expense would be involved. To avoid this expense and still provide a bottom of great strength, the improved tank comprises a double bottom consisting of a heavy sheet of steel and a very thin sheet of copper which are placed together and drawn into proper shape so that the layer of copper is pulled tightly over the layer or sheet of steel, the copper side of the double bottom forming, of course, the upper surface within the interior of the tank. When used on a washing machine the improved tank is to be attached to a sub-base by a plurality of bolts passing through the double bottom and fitted into the said bottom so that they will not turn, and, to prevent leakage, should the bolts become loose, metal water-tight caps are preferably soldered over the heads of the bolts.

The invention is illustrated in the accompanying drawing which is a vertical section of the improved tank.

Referring to the drawing, 12 denotes the body of the sheet-metal tank which is preferably of copper and is preferably provided at its bottom with an upturned lip 13. The upper edge of the tank is preferably reinforced by a flat strip or band 14 of metal, said strip or band being encircled by the turned-over and tucked-up under edge 12^a of the sheet copper, and this reinforced upper edge of the tank may be further strengthened by solder.

The double bottom of the tank comprises a relatively heavy sheet of steel 15 overlaid with a relatively thin sheet of copper 16, these parts being stamped out or drawn together so that they form a double bottom of great strength but having a copper lining inside of the tank. The double bottom preferably has a downturned peripheral edge 17 extending within the upturned lip 13, at which point the parts may be forced together to form a water tight joint which may, if desired, be reinforced by solder.

The double bottom is preferably provided with a plurality of square holes for the reception of squared parts 18 of bolts 19 by which the tank may be attached to a suitable base or support and these holes are rendered water-tight by sheet metal caps 20 soldered to the bottom and fitting tightly over the heads of the said bolts. The caps 20 are each constructed with an outwardly extending, horizontal flange which facilitates the soldering operation in making tight joints. As the flanged heads of said bolts are larger than the square parts 18 and are above the bottom of the tank, said bolts are fixedly attached to the bottom of the tank by the soldered-down caps 20, which form water-tight joints.

In forming the double bottom of the tank the relatively thin or light sheet or layer of copper is laid over the relatively thick or heavy sheet of steel, and these parts are then placed together in a die, to shape them properly; and in this shaping operation the relatively soft and ductile copper sheet is drawn tightly over the relatively hard sheet of steel, thus practically making the two parts into one, as above stated.

Having thus described my invention I claim and desire to secure by Letters Patent:

1. A tank for use in washing machines, having, at its bottom, attached means for securing the tank to a suitable base or support, said means comprising non-rotatable bolts having non-circular parts fitting non-circular holes in said bottom, and sheet

metal caps soldered to said bottom over the heads of said bolts.

2. A tank comprising a sheet metal body having a double bottom secured to said body in such a manner as to form a water-tight joint, non-rotatable bolts fitted to said bottom, and sheet metal caps soldered to said bottom over the heads of said bolts to form water-tight joints over the heads of said bolts, said caps having outwardly extending flanges to facilitate soldering.

In testimony whereof I affix my signature.

CHARLES A. XARDELL.