

B. A. LAKE.
TANK CLOSURE.
APPLICATION FILED APR. 14, 1910.

971,450.

Patented Sept. 27, 1910.

FIG. 1

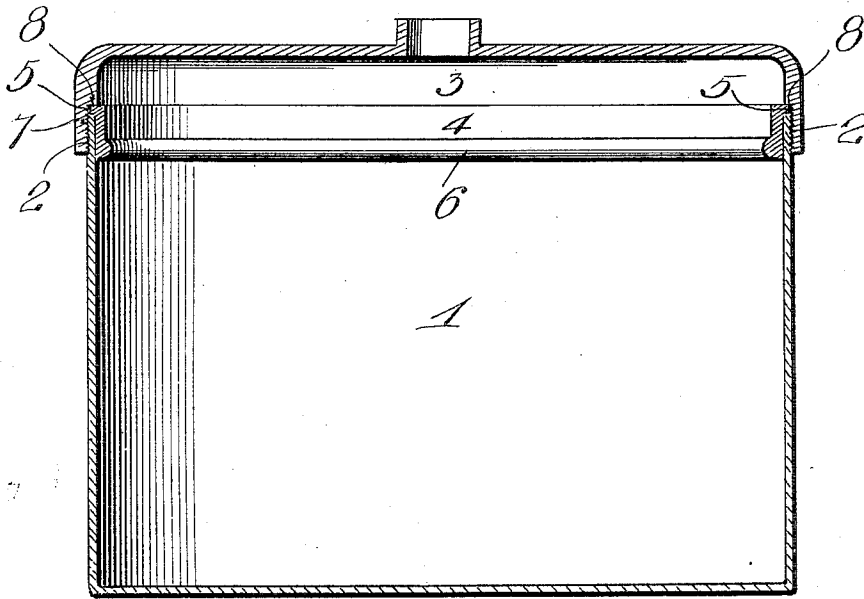
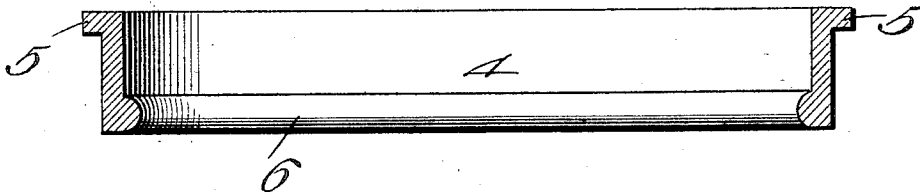


FIG. 2



Witnesses

C. G. Grist
C. H. Grist

Inventor

B. A. Lake

by *A. B. Wilson*
Attorneys

UNITED STATES PATENT OFFICE.

BERTUS A. LAKE, OF BIGPRAIRIE, OHIO.

TANK-CLOSURE.

971,450.

Specification of Letters Patent. **Patented Sept. 27, 1910.**

Application filed April 14, 1910. Serial No. 555,361.

To all whom it may concern:

Be it known that I, BERTUS A. LAKE, a citizen of the United States, residing at Big-
prairie, in the county of Holmes and State of
Ohio, have invented certain new and useful
Improvements in Tank-Closures; and I do
declare the following to be a full, clear, and
exact description of the invention, such as
will enable others skilled in the art to which
it appertains to make and use the same.

This invention relates to improvements in
tank closures.

One object of the invention is to provide
means whereby the threaded upper end of
the tank is reinforced and rigidly braced so
that the threads thereon will be held in close
engagement with the threads of the cover
thereby firmly holding the latter in place on
the tank.

With the foregoing and other objects in
view the invention consists of certain novel
features of construction, combination and ar-
rangement of parts as will be more fully de-
scribed and particularly pointed out in the
appended claim.

In the accompanying drawings: Figure 1
is a central vertical section of a tank and
closure constructed in accordance with the
invention; Fig. 2 is an enlarged cross sec-
tional view of the reinforcing ring removed
from the tank.

Referring more particularly to the draw-
ings 1 denotes the sheet metal tank on the
outer surface of which adjacent to its upper
edge is formed screw threads 2 with which
are adapted to be engaged the top 3 of the
tank. The tank 1 may be of any desired size
and employed for any suitable purpose.

Adapted to be engaged with the upper in-
ner portion of the tank is a reinforcing ring
4 said ring fitting within and having a close
engagement with the inner surface of the
tank adjacent to its upper edge. On the up-
per edge of the ring 4 is formed an out-
wardly projecting annular flange 5 which
when the ring is in place in the tank is adapt-
ed to fit over and engage the upper edge of
the tank as shown. On the inner side of the
ring 4 adjacent to its lower edge is formed
an inwardly projecting annular bead or rib
6 whereby said ring is strengthened and stiff-
ened.

The cover 3 of the tank may be of any
suitable shape and has formed on its inner

side adjacent to its lower edge an annular
groove or recess 7 which is interiorly
threaded and is adapted to be screwed into
engagement with the threads 2 on the upper
edge of the tank 1. The annular groove or
recess 7 in the cover forms an annular shoul-
der 8 which when the cover is screwed down
onto the upper end of the tank engages the
flange 5 on the reinforcing ring thereby
forming a tight closure for the tank. The
flange 5 of the reinforcing ring serves to
prevent said ring from slipping down into
the tank and holds the same in position to
brace the threaded upper edge of the tank.
It will be noted that the inner or lower
edge of the reinforcing ring 4 projects down
into the tank to a point slightly below the
lower edge of the cover 7 thus bracing or re-
inforcing the tank a short distance below
the threaded upper portions thereof.

By means of a tank closure constructed
and arranged as herein shown and described
the upper threaded ends of sheet metal tanks
will be rigidly braced and protected against
indentation and the threads thereon will
be held into close engagement with the
threads of the cover thereby providing a
tight joint between the cover and the tank.

From the foregoing description taken in
connection with the accompanying drawings
the construction and operation of the in-
vention will be readily understood without
requiring a more extended explanation.

Various changes in the form, proportion
and the minor details of construction may
be resorted to without departing from the
principle or sacrificing any of the advan-
tages of the invention as defined in the ap-
pended claim.

Having thus described my invention what
I claim is:

In a tank of the character described, a
series of threads arranged around the up-
per edge thereof, a reinforcing ring ar-
ranged within and engaging the upper edge
of the tank said ring having on its lower
edge an inwardly projecting strengthening
bead, an annular outwardly projecting
flange formed on the upper end of said ring
and adapted to engage the upper edge of
the tank, a cover having an interiorly
threaded recess or groove formed on its
lower inner edge and adapted to be screwed
into engagement with the threaded upper

edge of the tank, said groove or recess forming an annular shoulder adapted to fit against the flange on the upper end of said reinforcing ring, said ring having a width
5 sufficient to project forwardly in the tank a slight distance below the lower edge of the cover.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

BERTUS A. LAKE.

Witnesses:

R. R. STERLING,
VERA GARRETT.