

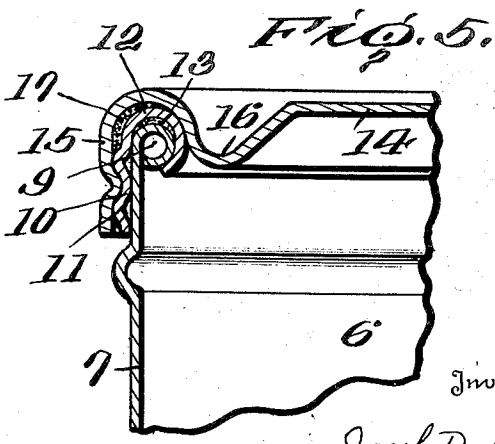
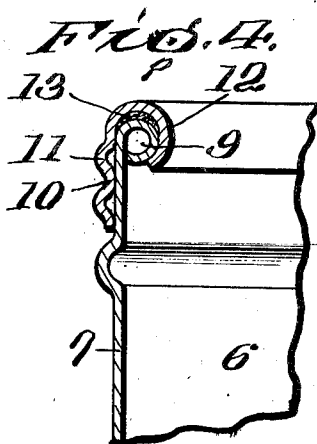
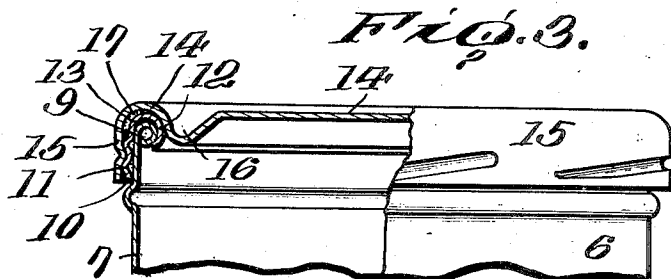
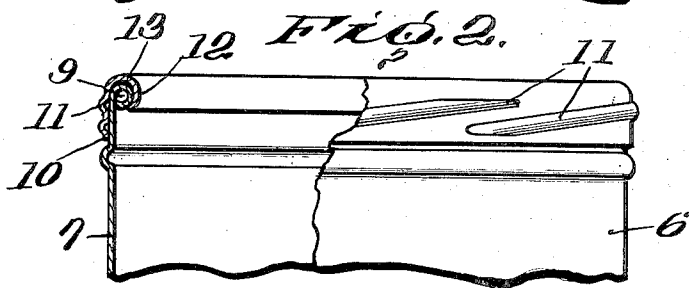
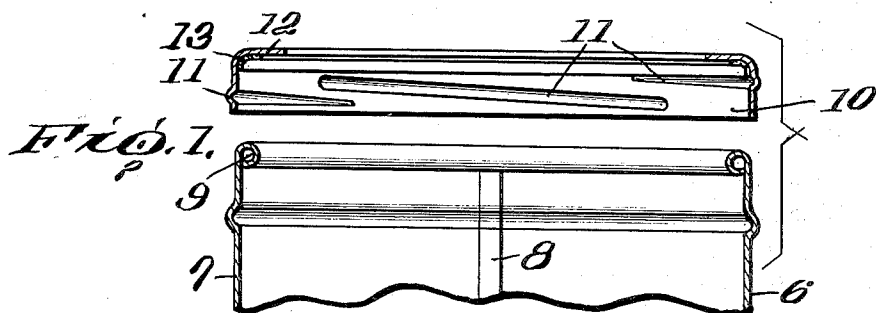
Dec. 8, 1936.

J. DAHL

2,063,538

METAL CONTAINER

Filed April 24, 1935



Inventor

Jacob Dahl.

By

Mason & Taylor
Attorneys.

UNITED STATES PATENT OFFICE

2,063,538

METAL CONTAINER

Jacob Dahl, Chicago, Ill., assignor to Continental
Can Company, Inc., New York, N. Y., a corpo-
ration of New York

Application April 24, 1935, Serial No. 18,044

1 Claim. (Cl. 220—39)

The invention relates to new and useful im-
provements in metals containers wherein the
cover is secured to the body by interrupted screw
threads.

5 An object of the invention is to provide a
container of the usual lock and lap seam con-
struction wherein an endless threaded collar is
fixedly attached at the open end thereof for the
purpose of removably securing a cover to the
10 body portion of the container.

A further object of the invention is to provide
a container of the above type wherein sealing
compound is interposed between the separate
parts thereof for producing a hermetic seal for
15 the container.

These and other objects will in part be ob-
vious and will in part be hereinafter more fully
disclosed.

Referring to the drawing—

20 Figure 1 is a vertical sectional view of the
container and the endless threaded collar pro-
vided therefor;

Fig. 2 is a view partly in section and partly
in side elevation of the improved container with
the endless threaded collar fixedly attached
25 thereto;

Fig. 3 is a view partly in section and partly
in side elevation of the container showing the
threaded cover attached thereto;

30 Fig. 4 is an enlarged partial sectional view at
one side of the container, and

Fig. 5 is an enlarged partial sectional view
similar to Fig. 4 with the cover applied.

The invention relates particularly to a con-
tainer of the lock top type wherein a cover
having interrupted threads is provided for clos-
ing the container. The container comprises a
body portion formed from a blank of sheet metal
curved into cylindrical form and having its edges
40 joined by the usual lock and lap seam. The
container has a bottom end seamed thereto and
has the upper edge portion thereof curled in-
wardly to form a hollow bead. An endless collar
having interrupted screw threads embossed
45 therein is attached to the container and is so
dimensioned as to fit over the body portion of
said container. The endless collar has an in-
wardly projecting portion and a plastic sealing
compound disposed beneath said projecting por-
50 tion. After the collar is placed over the con-
tainer, the inwardly projecting portion thereof
is bent downwardly and inwardly beneath the
bead on the container body for rigidly securing
the same to the container. As the projecting
55 portion is thus turned inwardly so as to clamp

the collar on the container body, the sealing
compound will be compressed and an air-tight
joint formed between the endless collar and the
container body. A closure having a depending
skirt or flange is provided for closing the con-
tainer. Said cover has a central depression and
a recess located above the bead on the con-
tainer body. In the recess is placed a sealing
compound so as to provide a hermetic seal for
10 the container when the cover is applied. The
cover is also removably secured to the collar by
an interrupted thread.

Referring more in detail to the drawing, a
container embodying the invention is indicated
at 6. The container comprises a body portion
7 having a bottom end (not shown) of the usual
type double seamed thereto. The body portion
7 is formed from a blank of sheet metal having
the side edges thereof joined in the usual lock
and lap seam, as indicated at 8. The upper
edge of the container body is curled inwardly
to form a hollow bead 9 which is left partly
open. An endless collar 10 is provided for the
container having interrupted screw threads 11
embossed in the skirt portion thereof. The in-
25 ner diameter of the skirt portion is substantially
the same as the outer diameter of the container
body so that the skirt portion of the collar will
frictionally fit over the outside of the container
body. The collar 10 is provided with a projecting
portion 12 which is adapted to be bent down-
wardly and inwardly beneath the bead 9 on the
container body for rigidly securing the collar
to the container body. A sealing compound 13
30 is applied to the endless collar so as to be in-
terposed between the collar and the bead on the
container when the parts are assembled. This
affords an air-tight seal between the two mem-
bers when the projecting portion 12 is curled
about the bead 13.

A closure cover 14 having a depending skirt
15 is provided for closing the container. The
skirt 15 is embossed with suitable interrupted
threads and is adapted to fit over the collar
when secured in place. The cover 14 has a
45 central depressed portion 16 which provides a
suitable recess or pocket directly over the bead
9 for a sealing gasket 17, and said sealing gas-
ket provides a hermetic seal when the cover
is tightly secured in place.

From the above it will be apparent that a
container has been devised wherein a threaded
cover is used for closure and wherein the body
portion thereof is provided with a lock and lap
seam. In manufacture, it has been found diffi-
55

cult to emboss threads in a container body having a lock and lap seam joint, because of the double thickness of metal of the seam thereof. Furthermore, when an endless collar is used it provides a smooth upper edge portion with which the gasket or sealing compound carried by the cover contacts and this enables a very tight joint to be formed. By fixedly attaching an endless collar with interrupted threads to a container body of this type, a container is produced which is simple in construction and cheap to manufacture. By interposing sealing gaskets between the interfitting parts, a hermetic seal is established when the parts are assembled. The endless collar with its curled connection to the bead on the container body greatly strengthens the open end of the container and prevents the threads on the cover slipping over the threads on the collar when turned down so as to establish a tight seal between the cover and the container body. A container of this type is very useful for such products as face creams, ointments, soap pastes and the like, because of the air-tight seal that can be obtained. While an interrupted thread is described, it will be understood that a single continuous thread, a divided thread, or any other similar form of interengaging means may be used.

It is obvious that minor changes in the details of construction and the arrangement of the parts may be made without departing from the

spirit of the invention as set forth in the appended claim.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is—

A metal container comprising a sheet metal body portion having a lock and lap seam for joining the side edges thereof, said body portion having the upper edge thereof curled inwardly to form a bead, an endless collar adapted to fit over said container, said collar being curved at its upper edge portion inwardly and downwardly about said bead on the can body for firmly connecting said collar to said can body and thus producing an edge portion for said can body which is circumferentially unbroken, a sealing material between the bead and the inner surface of the collar for sealing the connection therebetween, said collar having projecting holding members formed therein, a closure for the container having a depending flange adapted to extend down over said collar, said flange having holding members formed therein adapted to engage the holding members on the collar for drawing the closure into tight sealing contact with the said collar, said closure having a recess formed therein directly above said collar and a sealing material in said recess for forming a tight hermetic seal between the closure and the container.

JACOB DAHL.