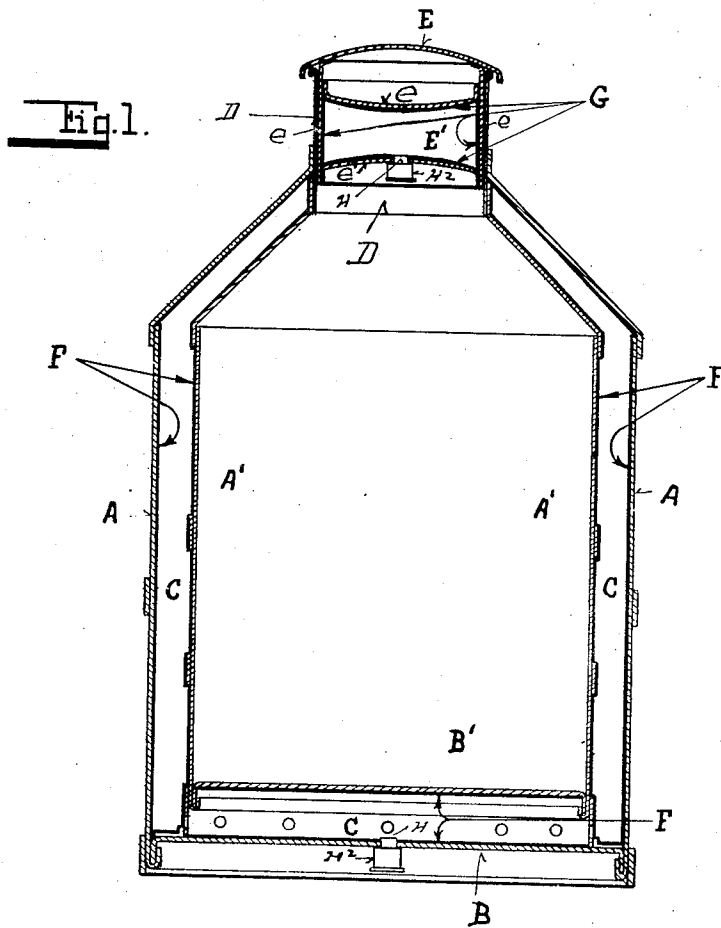
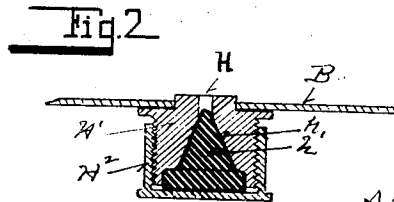


A. A. CURTIS.
 VACUUM CONTAINER.
 APPLICATION FILED MAY 21, 1920.

1,360,728.

Patented Nov. 30, 1920.



Inventor.
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VACUUM-CONTAINER.

1,360,728.

Specification of Letters Patent. Patented Nov. 30, 1920.

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To all whom it may concern:

Be it known that I, ARTHUR A. CURTIS, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Vacuum-Containers; and I do hereby 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention relates to improvements in vacuum containers and consists substantially in constructing such container with double walls forming a vacuum chamber surrounding the body of the container, preferably provided with suitable valve mechanism for closing the exhaust aperture thereof, and a cover or closure for the container having a vacuum chamber therein, also preferably provided with suitable valve mechanism for closing the exhaust aperture thereof, which closure and the surrounding vacuum chamber completely inclose the contents of the container.

These and other features of my invention are hereinafter fully set forth and explained and illustrated in the accompanying drawings in which:—

Figure 1, shows a vertical central section of a milk-can embodying my invention.

Fig. 2, shows an enlarged central section of a valve mechanism for closing and sealing the openings into the vacuum chambers.

In these drawings I have shown a milk-can as an embodiment of my invention in which A indicates the outer wall of the sides, and B the outer wall of the bottom thereof; A' and B' respectively forming the inner walls thereof, and inclosing a vacuum chamber C between said inner and outer walls. These walls I preferably make of sheet metal, the joints uniting the parts thereof being secured together by soldering, electric welding, or by any of the usual methods of such constructions.

On the top of the can I form an upright sleeve forming the usual inlet openings D in which I insert a removable closure or cover E. This closure is provided with outer and inner walls *e* and *e'* forming a vacuum chamber E' therein. The inner surfaces of

the outer walls A and B, and the outer surfaces of the inner walls A' and B', I preferably coat with a suitable varnish, enamel or other impervious material indicated by the heavy lines on the drawing and designated by F, whereby any leakage of air is prevented. I also preferably coat the inner surfaces of the walls *e* and *e'* of the vacuum chamber E' in the closure E with a suitable varnish, enamel or other impervious material indicated on the drawing by the heavy lines and designated by G, for a like purpose as the coatings indicated by F.

For exhausting the air from the vacuum chambers C and E', I provide openings H (see Fig. 2) in one of the walls of said vacuum chambers, each of which openings is provided with a valve mechanism for closing and sealing the same. This valve mechanism I preferably make in the form of an externally threaded sleeve H' having a conical opening *h* therein, in which I place a seal *h'* of rubber or other yielding material and secure the same in place by means of the internally screw-threaded cap H², as clearly illustrated in Fig. 2, thus effectually closing and sealing the openings to the vacuum chambers, and at the same time permitting the openings to be opened should any leakage make the renewal of the vacuums necessary.

From the foregoing description it is believed the operation of my invention is so obvious that further description thereof is unnecessary. Therefore what I claim as new and desire to secure by Letters Patent is:

1. The combination in a vacuum container of duplicate metal walls forming a vacuum chamber between them, an impervious coating on the inner surface of the outer wall, and on the outer surface of the inner wall, an externally screw threaded sleeve on the outer of said walls having a conical opening therein communicating with said vacuum chamber, a removable plug of resilient material for closing said conical opening, and an internally screw threaded cap for compressing and retaining said plug in place.

2. The combination in a vacuum container of double walls forming a vacuum chamber between them, an impervious coating on the inner surface of the outer wall, and on the outer surface of the inner wall, an externally screw threaded sleeve on the outer wall having a conical opening therein communi-

cating with said vacuum chamber, a conical
plug of resilient material closing said conical
opening, an internally screw threaded cap
engaging said screw threaded sleeve for com-
5 pressing and retaining said plug in place, a
removable hollow cover comprising side and
upper and lower walls forming a vacuum
chamber between them, an impervious coat-
ing on the inner surface of said walls, an ex-
10 ternally screw-threaded sleeve on one of the

walls having a conical opening therein com-
municating with said vacuum chamber, a
conical plug of resilient material closing
said opening, and an internally threaded
cap engaging said externally screw-threaded 15
sleeve for compressing and retaining said
plug in place.

In testimony whereof I affix my signature.

ARTHUR A. CURTIS.