SEALING DEVICE FOR CLOSED CONTAINERS

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The present invention relates to an improved sealing device for closed containers and especially large milk shipping cans.

It is well known that in shipping milk from dairy farm districts to various dairies, foreign matter such as dust and dirt and the like settles around the mouth of the can where the closure or cap engages, and due to suction created on the interior of the can due to agitation of the milk resulting from the vibration, particles of foreign matter are drawn between the parts, therefore when the milk is poured from the can, provided the margin of the mouth end of the can is not wiped off, such foreign matter will mix with the milk, and therefore contaminate the same.

It is the purpose of the present invention to provide an improved sealing device to be arranged between the parts where the closure engages the entrance mouth of the can, with a portion of the sealing device pulled down over the margin of the flange of the entrance mouth, thereby precluding any foreign matter or particles, such as bacteria, dust and dirt.

It is another purpose to provide a sealing device which may be carried by the cover and stretched or folded back over the cover when the cover is not in use, but when the cover is arranged in place in engagement with the entrance mouth of the can or other container, the sealing device is pulled down over the marginal flange of the entrance mouth.

It is to be understood that the particulars herein given are in no way limitative, and that while still keeping within the scope of the invention, any desired modification of details and proportions may be made in the construction of the appliance according to circumstances.

The invention comprises further features and combination of parts to be hereinafter set forth, shown in the drawing and claimed.

In the drawing:

Figure 1 is a view of a conventional type of milk shipping can showing the closure or cover applied, with the sealing device in position.

Figure 2 is a view of a portion of the entrance mouth of the milk can, showing the cover in a position to be inserted, with the sealing device stretched back over the closure.

Figure 3 is a sectional view through a milk shipping can showing the closure or cover applied with the sealing device in an operative position, in such wise as to preclude all foreign matter as bacteria, dust and dirt.

Referring to the drawing 1 identifies a conventional type of milk shipping can or other container having an entrance mouth 2 and a marginal flange 3, interiorly of which an annular recess 4 is formed.

A cover or closure 5 is provided, and which has a depending extension neck 6, which telescopically fits the entrance opening or mouth 2 of the can. The fact is the entrance opening or mouth 2 is adjoining the neck 7 of the can.

A pliable or flexible sealing device 8 of rubber or a composition thereof is provided. This sealing device has a thickened flange or bead 9 which fits closely about the depending neck 6 of the closure or cover 5, and in such wise as to engage in the annular recess or cavity 4 which adjoins the flange 6 of the entrance opening 2 of the can. By means of the thickened bead or flange 9 engaging the annular recess or cavity 4, a sealing action is created between the cover or closure 5 and the entrance opening.

When the cover or closure is not in use the pliable skirt 10 of the sealing device is stretched back over the cover or closure, as shown clearly in Figure 2. The marginal edge of the portion of the skirt 10 which is stretched back over the cover or closure is in the form of a bead or flange 11. While this bead or flange 11 is elastic enough to allow it to stretch back and forth over the margin of the cover or closure, it possesses sufficient elasticity of a tightening nature, to fit closely against the exterior of the neck 7 of the can, when disposed below the flange 3 as in Figure 3, and in such a manner as to preclude foreign matter such as bacteria, dust and dirt.

When it is desired to pour the contents of the can the bead or flange 11 is stretched back over the cover or closure as in Figure 2, and then the cover or closure is removed, in which case the contents can be easily poured, with-
out carrying with it any foreign particles that
would otherwise collect between the parts of
the cover and the flange 3, provided the seal-
ing device were not in use. In other words
the upper exterior face of the flange 3 as well
as the interior of the entrance mouth 2 can be
kept clean and free of dust and dirt.
The invention having been set forth, what
is claimed is:
1. In a sealing device for shipping milk
cans, the combination with a can body having
a neck and including an entrance mouth, the
neck merging into a marginal flange, of a
closure or cover provided with a depending
neck engaging the entrance mouth, a flexible
or pliable sealing device having an enlarged
bead or flange at one end fitting closely about
the depending neck of the cover, said sealing
device comprising a pliable or flexible skirt
to be stretched back over the cover when the
cover is not in use, the other end of the seal-
ing device having a bead or flange, the pliable
or flexible skirt adapted to be stretched over
the flange of the can neck, whereby the second
bead or flange may hug closely against the
exterior of the neck of the can.
2. As an article of manufacture, a sealing
device for milk shipping cans provided with
a neck and a filling entrance mouth including
a cover insertable therein, said sealing de-
vice comprising a pliable skirt body having
a bead or flange at one end to hug closely
about a depending neck of the cover, there-
fore engaged between said depending neck
and the wall of the entrance opening, the
skirt body adapted to be stretched over the
margin of the entrance opening and having
a bead or flange at its other end to hug
closely about the exterior of the neck of the
can, thereby precluding foreign matter from
the engaging parts of the can and cover.
3. As an article of manufacture, a sealing
device comprising a flexible skirt body with
an elastic thickened flange at one end to
closely hug a depending neck of a closure for
a shipping milk can, said skirt body adapted
to be stretched over the upper margin of
the closure when the closure is not in use,
said skirt body, when the cover is inserted
in an entrance opening of the milk can
adapted to be stretched down over a mar-
ginal flange of the entrance opening, the other
end of the skirt body having an elastic flange
to closely fit the exterior of a neck of a ship-
ning milk can when the skirt body is stretched
downwardly and the cover inserted, thereby
precluding the entrance of foreign matter
between the engaging parts.
In testimony whereof I affix my signature.

FRED M. SHOOP.