Sept. 11, 1923. 1,467,706

J. F. COLLINS

CAN TOP VENT

Filed April 15, 1922

Fig. 1.

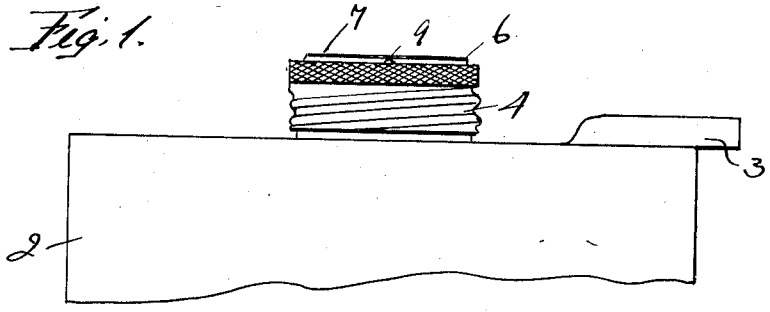


Fig. 2

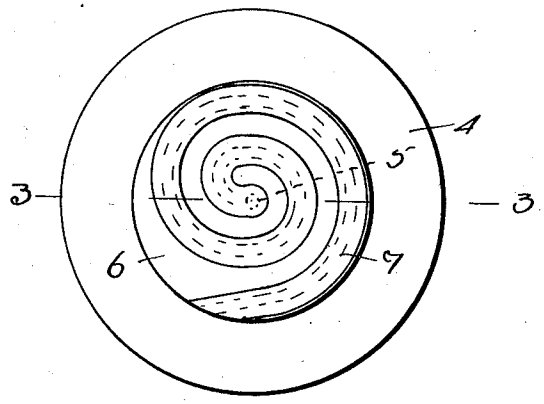
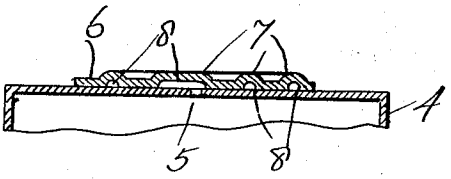


Fig. 3



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UNITED STATES PATENT OFFICE.

JOHN F. COLLINS, OF PHILADELPHIA, PENNSYLVANIA.

CAN-TOP VENT.

Application filed April 15, 1922. Serial No. 552,970.

To all whom it may concern:

Be it known that I, JOHN F. COLLINS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in a Can-Top Vent, of which the following is a specification.

My invention relates to new and useful improvements in a can top vent and has for its object to provide a simple and effective device of this character consisting of a top or lid having a hole therethrough with a plate having a convolute corrugation to produce an air channel open to the atmosphere at the edge of the plate and terminating approximately at the center of the plate, said terminal overlying the hole to form a communication between said hole and the air channel.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains, may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawing forming a part of this application, in which:—

Fig. 1, is a fragmentary side elevation of a can or other container from which a liquid is to be poured through a spout showing a top or lid thereon embodying my invention.

Fig. 2, is an enlarged plan view of the top or lid showing my improved vent.

Fig. 3, is a section at the line 3—3 of Fig. 2.

In carrying out my invention as here embodied, 2 represents a can or container of any desirable construction, the one here shown being a can similar to those in use for holding oil. A spout 3 is provided for whereby the contents may be readily poured from the container while the filling opening is closed by a suitable top or cap 4 the latter being shown as having threaded connection with the container.

The top or cap 4 has a hole 5 through its top wall preferably located centrally thereof and is covered by a plate 6 fixed to the outer surface of the top wall of said cap in any suitable or well known manner as by soldering.

The plate 6 has a convolute corrugation 7 formed therein the outer end of which terminates at the edge of the plate which is preferably of disc shape, while the other or inner end terminates substantially in the center of the plate. The corrugation 7 in conjunction with the top wall of the cap produces a convolute air channel 8 with an inlet or mouth 9 at its outer end which communicates with the atmosphere while the inner end of said corrugation overlies the hole 5 so that the inner terminus of the channel communicates with said hole to complete the communication between the interior of the container and the atmosphere.

By using such a vent with containers holding gaseous or vapor forming liquids likely to explode if confined, the gas or vapor will be permitted to escape to the atmosphere although the spout is sealed.

Further it is a well known fact that to pour a liquid from a container air must be permitted to enter the same and this vent will allow air to freely enter the container at a distant point from the outlet or spout but will prevent the liquid spilling or running from the vent.

Of course I do not wish to be limited to the exact details of construction as herein shown as these may be varied within the limits of the appended claims without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is:—

1. A can top vent consisting of a top or cap having a hole through its top wall centrally thereof and a plate having a convolute corrugation therein with its outer end terminating at the edge of the plate to produce a mouth and its inner end terminating substantially in the center of said plate, said plate being fixed to the outer surface of the top wall of the cap with the inner end of the corrugation overlying the hole in the cap, said corrugation forming with the cap a convolute air channel to provide a circuitous communication between the interior of a container and the atmosphere.

2. As an article of manufacture, a can top vent comprising a cap having a hole there-

through and a plate provided with a convolute corrugation secured to the cap so that the inner end of said corrugation overlies the hole, the outer end of said corrugation terminating at the edge of the plate to provide a mouth.

3. In a device of the character stated, a plate having a convolute corrugation adapted to be secured to a cap which has a hole therethrough whereby said corrugation produces an air channel of circuitous formation.

In testimony whereof, I have hereunto affixed my signature.

JOHN F. COLLINS.