

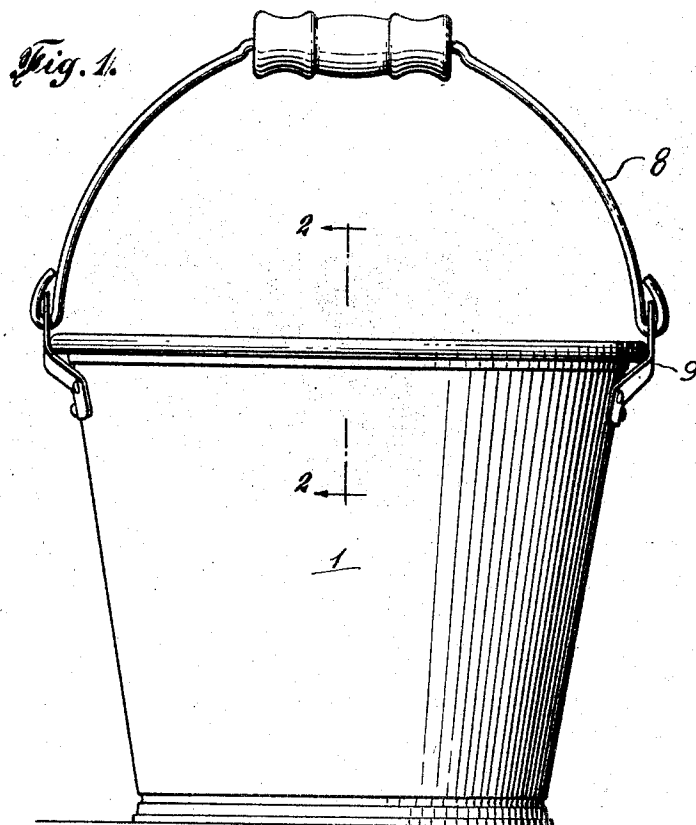
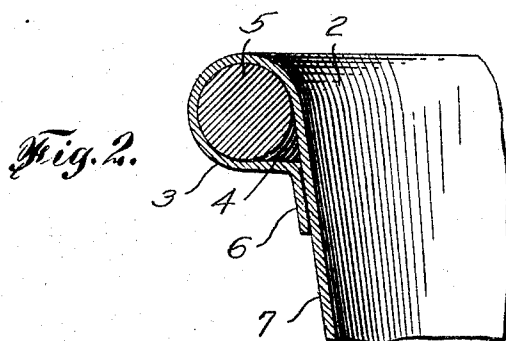
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P. KEMPTER

SANITARY CONTAINER CONSTRUCTION

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SANITARY-CONTAINER CONSTRUCTION.

Application filed February 20, 1925. Serial No. 10,480.

To all whom it may concern:

Be it known that I, PHILIP KEMPTER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Sanitary-Container Construction, of which the following is a specification.

This invention relates to improvements in sanitary container construction.

A difficulty experienced with containers, especially those adapted for use in dairies, where sanitation of the highest order is required, is the tendency of the metallic reinforced portion in the flap at the head of said containers to corrode. Ordinarily, the type of container in present use merely has a flap at the head portion, the said flap being wound about a wire reinforcing band, but not being sealed so as to prevent water or other elements from readily attacking the wire within the flap. Further, if the flap is soldered to the wall of the container, the labor to accomplish this task and the amount of solder required is often very considerable. This corrosive action of the elements on spreading naturally destroys the wire and decreases the length of service of the container. Further, impurities formed as the products of corrosion are often introduced into the material being handled, thus producing a detrimental effect to the quality of the material.

Among the objects of the invention, it is contemplated to provide a leak-proof joint of the flap portion with the outer wall of the body portion of a container; to provide a perfect seal for the reinforcing wire positioned within the channel groove, formed by rolling the flap portion about the body portion; and to provide a simple yet effective seal between the body wall and the flap portion by means of an annular flange at the extremity of the flap portion, which flange is fastened to the body wall by soldering or any other method.

Specifically, it is aimed to bend the extremity of the flap portion in parallelism with the side walls of the body portion of the container to form a sealing band.

Further, it is aimed to provide means for fastening this parallel extremity or flange of the flap with a minimum of material and labor.

Still, further, it is aimed to provide a leakproof annular channel for retaining a wire reinforcing band between the flap and the body portions of the container.

Still further, it is aimed to provide a simple structural arrangement of a container formed of stamped or seamed metal whereby the container will be absolutely sanitary.

These and other advantages, capabilities and features of the invention will appear from the subjoined detailed description of but one specific embodiment in which my invention may take form, which embodiment is illustrated in the accompanying drawings, in which—

Fig. 1 is a front elevation of the section containing subject-matter of the invention; and

Fig. 2 is a section along the lines 2—2 of Fig. 1.

Referring now more particularly to the reference characters of the drawing, in which but one of the possible embodiments of my invention is illustrated, numeral 1 represents the body portion of a container, which, in this case, represents a dairy pail, although I am not limiting myself to the specific type of container, it being well within the scope of my invention to include all stamped or seamed sheet metal containers applicable for use in creameries or other industries where proper sanitation of the containers in use is of the essence. Numeral 2 represents the head portion of the container, which head portion is formed by a flap portion 3, integral with the body portion, and which flap portion is bent or rolled over against the outer periphery of the body portion to form an annular channel or groove 4. Within this channel or groove 4 there is placed metallic wire or band 5, said wire being herein adapted for reinforcing the head portion of the container so as to enable the container to withstand the rigor of rough handling.

The flap portion 3 has at its extremity a flange portion 6, which flange is adapted to be bent at approximately right angles to the remainder of the flap portion and into parallelism with the wall 7 of the body portion. In this manner, an annular contact and reinforcing band is formed by the flange portion 6 of the flap which band is in close proximity to the walls of the body portion.

To firmly seal the reinforcement 5 within the annular channel 4, the flange 6 is soldered to the side wall 7. Due to the fact that there is considerable surface area of the flange 6 in contact with the wall 7, the joint formed between the two portions, upon soldering the two portions together, will prevent any water or other elements from entering into the channel 4.

10 The container is equipped with the well known wire handle member 8 attachable to the brackets 9, which brackets are fastened to the side walls of the container by riveting or any other well known method.

15 Though the embodiment illustrated in the drawing indicates a sanitary dairy pail, it is within the contemplation of the inventor to include vats, barrels or any other fluid containers wherein reinforcing means are required, but which means, on account of their tendency to corrode, must of necessity be protected from contact with any fluids.

20 Further, though the specific embodiment herein shown indicates a particular form of seal, and a circular channel for a reinforcement, it is not intended to limit the invention to these specific details, since it is well within the scope of the invention to include any structural form of channel, or
25 groove, containing a reinforcing means, which channel is firmly sealed from the elements by soldering or welding or brazing.

While the preferred embodiment of the invention has been described with great detail, it is to be understood that this is for the sake of clearness only, and does not limit the scope of the invention as described by the annexed claim.

What is claimed is:

A sheet metal open top container adapted particularly to contain liquids, comprising a single blank of sheet metal shaped to constitute a one-piece conical side wall body, an annular reinforcing rod arranged at the large end of said body and upon the exterior thereof, the said end of said body being shaped outwardly around said rod throughout the circumference of the body and engaging with said rod, the outer extremity of said engaging portion being brought tight against the exterior conical surface of said body and providing a relatively broad flange extending entirely around and in tight engagement with the body, said flange being brazed, welded or soldered to said body throughout its entire breadth and circumference, the distance of said flange below the top of the container and the degree of conicity of the container wall being such as to require forcible crimping of the flange against the container wall and continuous welding, brazing or soldering to obtain a hermetically sealed joint.

PHILIP KEMPTER.