Oct. 27, 1925. 1,558,768

L. STURGES

ICE CREAM CAN

Filed Sept. 19, 1921

FIG. 1

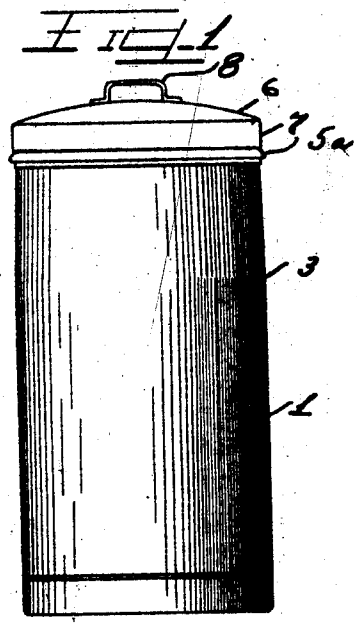


FIG. 2

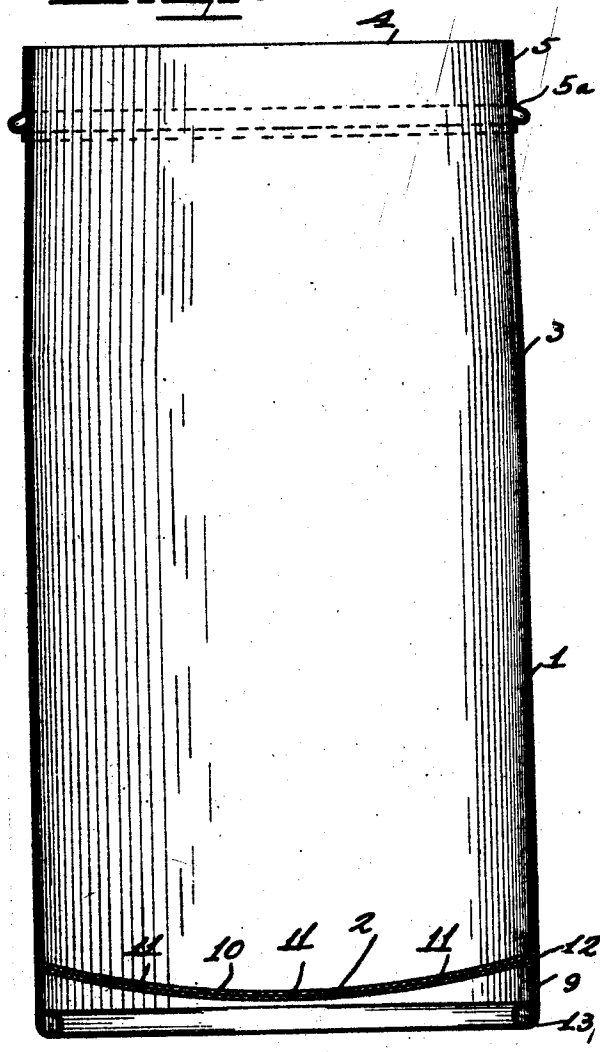
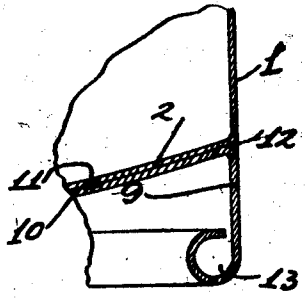


FIG. 3



Witnesses

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UNITED STATES PATENT OFFICE.

LEE STURGES, OF ELMHURST, ILLINOIS, ASSIGNOR TO SOLAR-STURGES MANUFACTURING COMPANY, A CORPORATION OF ILLINOIS.

ICE-CREAM CAN.

Application filed September 19, 1921. Serial No. 501,645.

To all whom it may concern:

Be it known that I, LEE STURGES, a citizen of the United States, and a resident of the city of Elmhurst, in the county of Du Page and State of Illinois, have invented certain new and useful Improvements in an Ice-Cream Can; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form a part of this specification.

My invention relates to cans, such as are ordinarily used for containing ice cream.

It is an object of my invention to provide a can which can be easily and inexpensively manufactured by drawing metal with dies and which shall be strong and durable.

It is a further object of my invention to provide a can of the type heretofore used for ice cream but with a bottom convex downward, and to compensate for the increase in volume of the interior of the can, which results from changing the shape of the bottom, by another change in the shape of the can.

It is a further object of my invention to provide a can with a portion of the upright side tapered.

It is a further object of my invention to provide means near the top of the can which shall afford a stop for the cover and at the same time shall afford a convenient attaching means for a grapple by which the can may be lifted.

It is a further object of my invention to provide a foot for a can with a convex bottom so that the can shall set upright in spite of the curved bottom.

It is a further object of my invention to provide a means for attaching a base to the curved bottom of the can which shall be strong and durable and yet shall have a neat appearance.

Other and further important objects of the invention will be apparent from the disclosures in the drawings and specification.

The invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a side view of the can.

Figure 2 is a section upon an enlarged scale.

Figure 3 is a detail section upon a still larger scale showing the construction of the lower part of the can.

As shown on the drawings:

The can consists of a body 1, which, from the bottom 2, to about two-thirds of its height, is a straight cylindrical can. From a point a little above the middle of the can to the upper edge of the can, the body is not straight, but is tapered, as is shown beginning at 3, and continues to the upper edge 4 of the can. This edge is surrounded by a reinforcing band 5 which is preferably secured to the can by electric welding, and is provided at its lower edge with an outwardly and downwardly extending integral bead 5^a upon which its cover rests and which also permits the can to be readily grappled in lifting from the packing tub. This bead is made by turning the material of the band 5 outward and then again inward and then prolonging it in the same direction as at first so that a surface by which the projection 5^a is secured to the wall of the can by welding or other means is afforded both above and below the bead. The cover 6 has a flange 7 which fits down over the reinforcing band 5 and bears upon the bead 5^a. The cover is also provided with a handle 8. The taper at the upper end of said can is for the purpose of compensating for the thickness of the grappling band 5 which is desirable upon these cans. For the covers on untapered cans can then be interchangeably used with the covers of the tapered cans. The concave portion of said can compensates for the loss of volume of the tapered portion.

The can rests upon a base 9 made, as the can itself is made, of sheet metal pressed into shape by a die. The bottom 2 of the can is rounded so as to be convex downward. The base 9 has an annular vertical wall and a curved top 10 concave upward so as to fit the bottom 2. The bottom 2 and the support 9 are secured together in any desired manner, preferably by spot welding as indicated at 11. Where the side walls 1 of the can join the bottom 2 and where the side walls of the support 9 join its top 10, the corners are not sharp angles but are curved as shown clearly in Figure 3. The groove between the two curved corners is preferably filled with metal as indicated at 12. This is preferably done by inserting therein a strip of metal and weld-

ing the same to the parts 1 and 9 by an acetylene torch or by any other desired method. Usually this will leave a projecting fin where the excess of the metal 12 projects from the can. When this is done, the excess is removed by grinding so that the surface of the metal 12 in the finished can is flush with the surface 1 of the can and 9 of the base. The lower edge of the base 11 is turned inward and rolled as shown at 13 to make a strong lower edge to the can and to permit the can to be readily grappled and lifted by the bottom edge. By forming the body and base wall flush and inturning and rolling the edge of said base I provide a reenforced structure having no projections at its base to interfere with its withdrawal from a container in which it may be packed. The turning may be accomplished by spinning or in any other desired manner.

I am aware that various details of construction may be altered through a wide range without departing from the spirit of my invention, and I therefore do not purpose limiting the patent granted otherwise than is required by the prior art.

I claim as my invention:

1. A can, comprising a substantially cylindrical body portion having a taper at its upper portion, and a beaded band surrounding the upper margin of said tapered portion and lying substantially flush and in line with the untapered portion.

2. A can, comprising a substantially cylindrical body portion having a taper at its upper portion, a band surrounding the upper margin of said tapered portion and lying substantially flush with the untapered portion, said body portion having a convex bottom, and a concave supporting base attached to said convex bottom and having an inturned rolled supporting edge, its vertical wall being flush with said body portion wall.

In testimony whereof I have hereunto subscribed my name.

LEE STURGES.