Jan. 6, 1959 N. BRAMANTE 2,867,364

HOLDER FOR MILK CONTAINER

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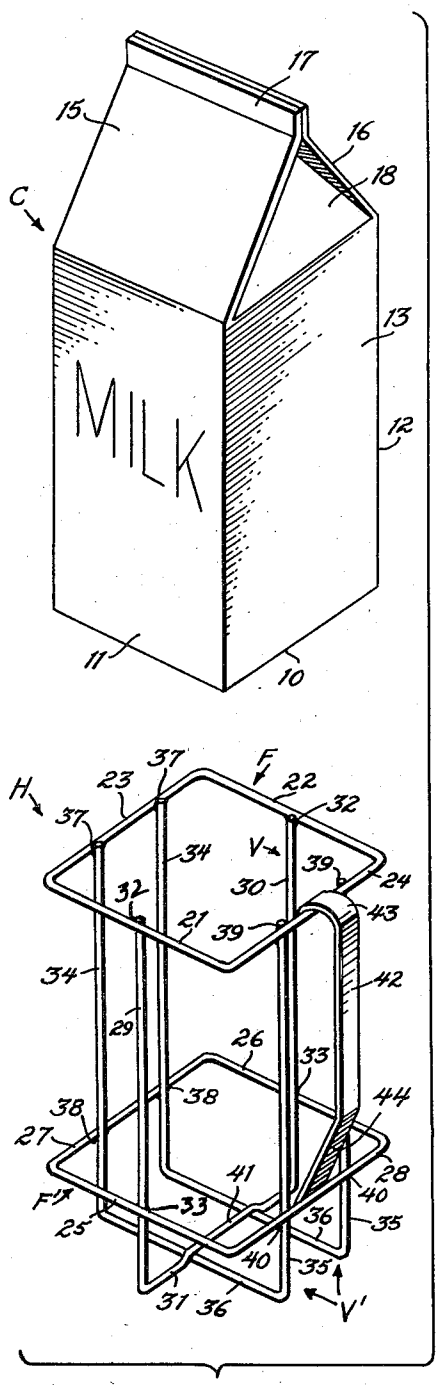


Fig. 1.

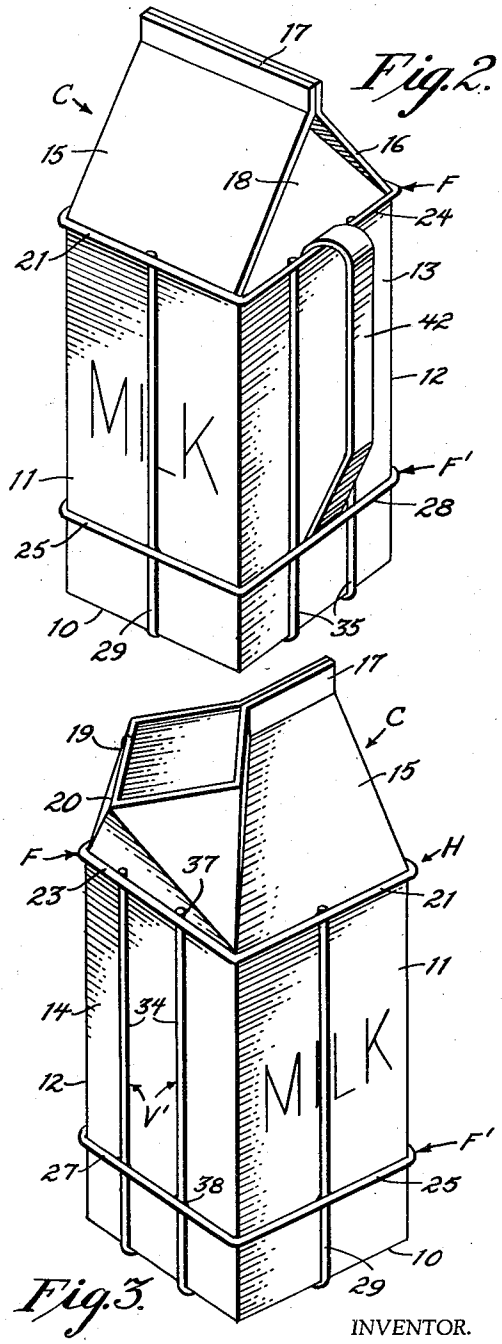


Fig. 2.

Fig. 3.

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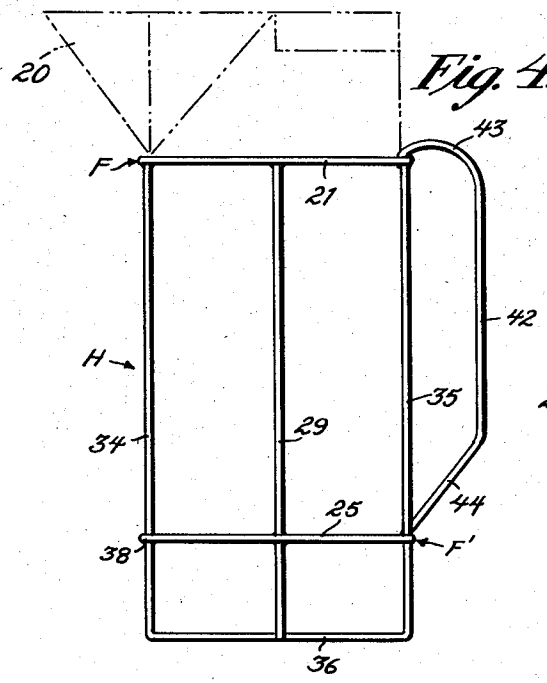


Fig. 4.

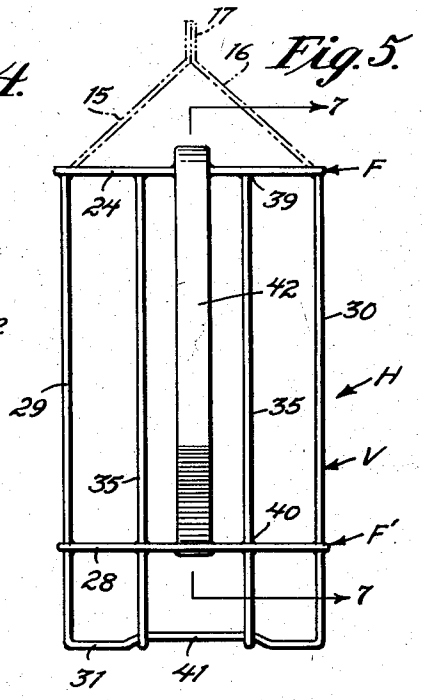


Fig. 5.

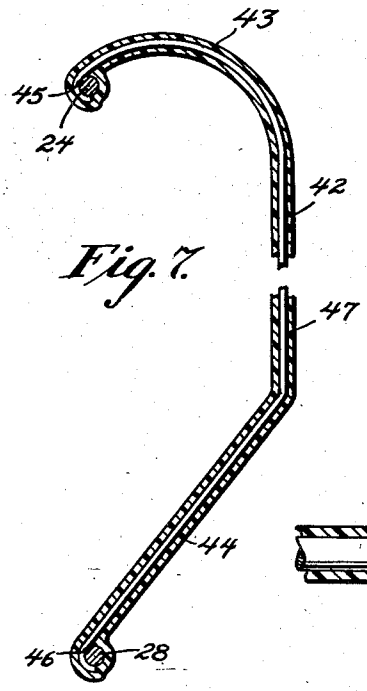


Fig. 7.

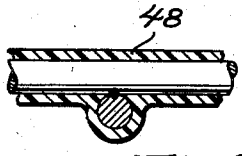


Fig. 8.

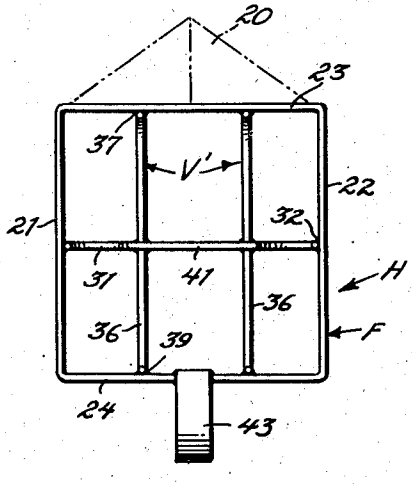


Fig. 6.

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HOLDER FOR MILK CONTAINER

Nunzio Bramante, Moorestown, N. J.

Application March 22, 1957, Serial No. 647,759

1 Claim. (Cl. 224—45)

The present invention relates to a holder for milk containers and is concerned primarily with the certain improvements over the holder illustrated and described in the copending application of Nunzio Bramante, Serial No. 618,019 for "Holder for Milk Container," filed October 24, 1956.

A holder of the type with which this invention is concerned is intended to receive a milk container of the type now commonly made from a waxed cardboard. Such containers are of necessity moistureproof; and it is highly important that any holder which snugly receives the container be of such a nature as not to impair the moistureproof properties of the container.

A holder of the type with which this invention is concerned should receive the milk container snugly so as to eliminate any wobbling. It is slid into position from the open top; and there should be no sharp points or projections which will impair the moistureproof character of the container.

With these conditions in mind, an important object of the present invention is to provide a holder of the character aforesaid which consists essentially of an open framework that is made of wire covered with plastic. The wire framework will include certain joints that are achieved by spot welding. However, the covering of all wires and joints with the plastic definitely precludes the presence of any sharp points or projections which might pierce or impair the container that is to be received therein.

It is highly important that a holder of the type with which this invention is concerned be manufactured as cheaply as possible and yet do the job required of it; namely, afford an adequate support for the milk container so that the latter may be held as it is manipulated. This means that the wire structure constituting the holder should have a minimum number of parts.

With this thought in mind, another object of the invention is to provide a holder of the character aforesaid which consists essentially of two square-shaped horizontal frame parts. One of these is located at the top and the other a short distance from the bottom of the finished holder. Cooperating with these horizontal frame parts are three U-shaped vertical frame members. One of these vertical frame members includes legs that are located in the sides of the finished holder and a base that is disposed in the bottom of the finished holder. The other two include legs that are located in the front and back, respectively, and bases that are located in the bottom.

The milk holder of this invention is intended to be placed on a kitchen table or other appropriate surface; and when so placed should have good stability. Thus another object is to provide a holder of the character aforesaid in which the base of the vertical frame making up the sides is formed with a central upwardly offset portion which accommodates the bases of the other two vertical frames which pass therebeneath.

Still another object of the invention is to provide, in a

holder of the type indicated, horizontal and vertical frames which a spot welded together at each point of crossing. This spot welding insures of a firm and rigid construction.

In providing a holder of the type indicated, a handle is a highly important feature. Moreover, this handle must be securely anchored to the frame so that it will withstand the rigors of usage. Thus another object of the invention is to provide, in a holder of the character aforesaid, a handle member having opposite ends securely anchored to the horizontal frames. This end is achieved by curling the terminal portions of the handle about the respective parts of the frames and spot welding them thereto.

The invention therefore comprises a holder for milk containers consisting essentially of two spaced horizontal square-shaped frames to which are spot welded three vertical U-shaped frames, with one of the latter making up the sides and the other two the front and back of the finished holder, together with a handle that is anchored to the vertical frames. The frames are spot welded at each point of crossing, and the ends of the handle are curled about and spot welded to the horizontal frames. The frames are made of wire and the handle of a strip of metal, with all parts including the spot-welded joints coated with a plastic.

For a full and more complete understanding of the invention, reference may be had to the following description and accompanying drawings, wherein:

Figure 1 is a perspective illustrating a milk container and the holder of this invention in exploded relation.

Figure 2 is another perspective showing the closed container as assembled in the holder.

Figure 3 is still another perspective depicting the container as opened.

Figure 4 is a view in side elevation, with the container brought out in broken lines.

Figure 5 is a view in rear elevation of the holder, with the container in broken lines.

Figure 6 is a top plan view of the holder, with the spout of the container being indicated in broken lines.

Figure 7 is a detailed section on an enlarged scale through the handle as taken about on the plane represented by the line 7—7 of Figure 5, with the central part of the handle being broken away to permit of illustration on an enlarged scale; and

Figure 8 is a detailed section illustrating one of the welded joints and plastic coating over the same.

Referring now to the drawings, and first more particularly to Figure 1, a container for milk of the type with which this invention is concerned is therein illustrated and referred to in its entirety by the reference character C. Such containers ordinarily are made in one- or two-quart sizes, and the holder of this invention will be made in corresponding sizes. Thus, one holder will be designed for a one-quart container and the other for a two-quart container. The container C is made of waxed cardboard or cardboard that is otherwise rendered moistureproof, and consists of a bottom 10, sides 11 and 12, a rear wall 13, and a front wall 14. The wall structure 11, 12, 13, and 14 is closed at the top in a well-known manner, as by inclined walls 15 and 16 which are secured together at a ridge 17 beneath which is an inclined rear wall 18 and a folded inclined wall structure at 19 which may be pulled out in opened position so as to provide a pouring spout, represented at 20. Both sizes of the container C are of square horizontal cross section.

The holder is referred to in its entirety by the reference character H. It comprises an upper or top horizontal frame F of square shape presenting sides 21 and 22, a front 23, and a back 24. The holder H also in-

cludes a lower horizontal frame F' having sides 25 and 26, a front 27, and a back 28. A U-shaped vertical frame V consists of legs 29 and 30 and a base 31. The top of the leg 29 is secured to the side 21 by spot welding, as at 32. It is also secured to the side 25 of the frame F' by spot welding at 33. Likewise, the top of the leg 30 is joined to the side 22 of the top frame F by a spot-welded joint at 32, and to the side 26 of the frame F' by a welded joint at 33.

Two additional vertical frames V' each includes legs 34 and 35 and bases 36.

The tops of the legs 34 are spot welded to the front 23 as indicated at 37; and these same legs 34 are also spot welded to the front piece 27 of the frame F' as indicated at 38. The upper ends of the legs 35 are spot welded to the back 24 of the top frame as indicated at 39; and these legs 35 are also spot welded to the back 28 of the lower frame F' as represented at 40.

It will be noted that the central portion of the base 31 of the frame F is offset upwardly as indicated at 41 so as to accommodate the bases 36 of the frames V' which pass therebeneath. Thus these bases 36 and the end portions of the base 31 are intended to lie flush in the same plane so that the holder may be placed on a supporting surface in a stable condition.

A handle, consisting of a main body portion 42, a curled top 43, and an inclined bottom portion 44, is made from a strip of metal; and the top end is anchored to the back 24 of the top frame F substantially midway thereof; while the lower end of the bottom portion 44 is anchored to the back 28 of the lower frame F' midway thereof. These anchorages are achieved by spot welding.

Upon referring to Figure 7, it will be noted that the end of the top portion 43 is curled about the back 24 and spot welded thereto as indicated at 45. Likewise, the end of the inclined bottom part 44 is curled about the back 28 of the frame F' and spot welded thereto as indicated at 46.

After each of the welded joints between the crossing frame parts above described has been established and the handle anchored to the backs 24 and 28 of the frames F and F', the entire holder is covered with an appropriate plastic such as one of the acetates or vinyl chlorides. Plastics of this type are now well known and available as such to the public. Figure 7 illustrates the plastic cover for the handle at 47; while the plastic covering for the wire of the various frames is indicated at 48 in Figure 8. Moreover, Figure 8 shows how one of the welded joints is covered with the plastic.

It is evident that, with the holder H accurately dimensioned to snugly receive the container C, the latter may be inserted into the former without danger or liability of having its waterproof properties impaired. Moreover, the holder with the container therein may be placed on a kitchen table, refrigerator shelf, or other supporting surface in a stable manner. When it is necessary to manipulate the holder with the container therein, the handle is grasped and the contents of the container poured out through the spout 20. Obviously, after a container has been emptied, it may be removed from the holder and replaced by a filled container.

It is important to note that the legs 29 and 30 of the vertical frame V are positioned centrally of the sides of the horizontal frames. Likewise, the vertical frames V' are positioned symmetrically with respect to the fronts and backs of the vertical frames F and F'.

While a preferred specific embodiment of the invention is hereinbefore set forth, it is to be clearly understood that the invention is not to be limited to the exact constructions, materials, and designs illustrated and described, because various modifications of these details may be provided in putting the invention into practice within the purview of the appended claim.

What is claimed is:

In a holder for milk containers, a square-shaped upper horizontal frame having sides, a front, and a back; a lower horizontal frame of the same size and shape as said upper frame and having sides, a front, and a back; a U-shaped vertical frame including legs secured to the sides of said horizontal frames by spot welding and a base having a central upwardly offset portion; two additional vertical frames having legs secured to the fronts and backs of said horizontal frames by spot welding and bases passing beneath said offset portion and spot welded thereto; and a flat handle consisting of a main body portion substantially parallel to the legs of said vertical frames and arranged midway therebetween, a curved top portion having its end curled over and welded to the back of said upper horizontal frame and an inclined bottom portion having its end curled over and welded to said lower horizontal frame whereby said main body portion of the handle is offset with respect to the closest adjacent legs of said last-mentioned vertical frames, said frames and handle being covered with plastic.

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