P. D. PEARCE AND S. VANDEN HOEK.

ICE CREAM CARTON FILLER.

APPLICATION FILED NOV. 21, 1921.

1,434,500. Patented Nov. 7, 1922.

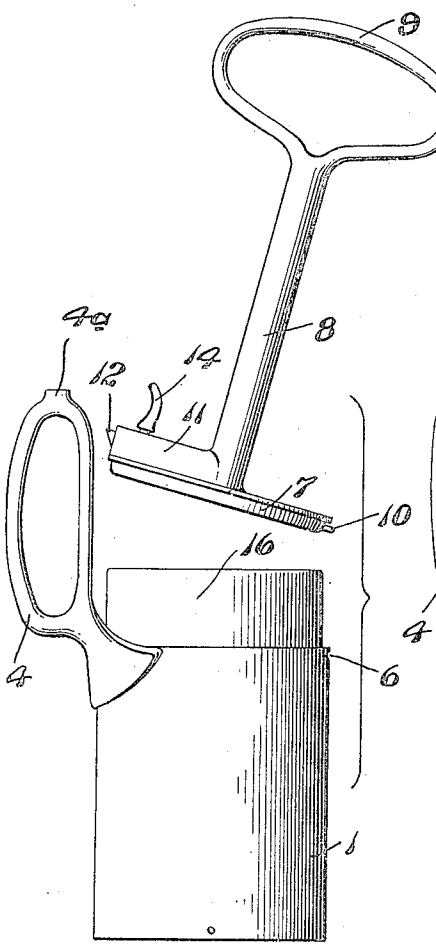

Fig. 2.

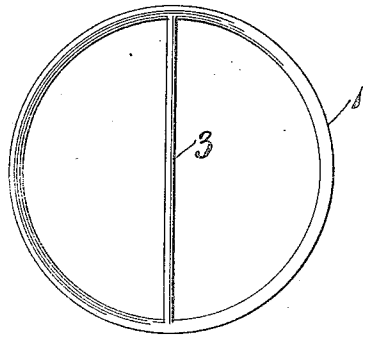

Fig. 3.

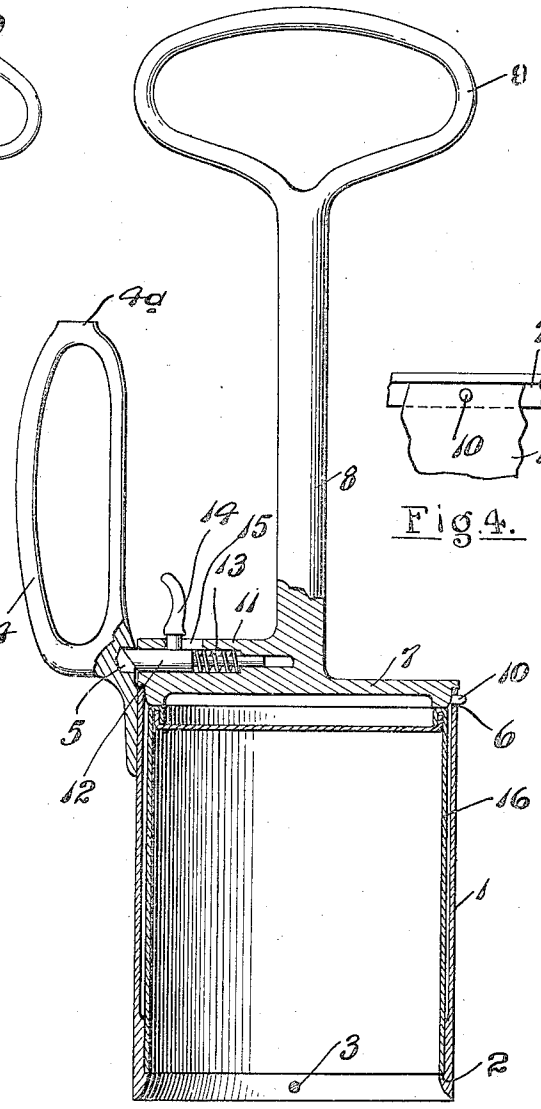

Fig. 1.

Fig. 4.

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UNITED STATES PATENT OFFICE.

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ICE-CREAM-CARTON FILLER.

Application filed November 21, 1921. Serial No. 516,834.

To all whom it may concern:

Be it known that we, PETER D. PEARCE and SAMUEL VANDEN HOEK, citizens of the United States of America, residing at Grand Rapids and Wyoming Township, respectively, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Ice-Cream-Carton Fillers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an appliance for use in filling cartons with ice cream from a large receptacle in which the ice cream is ordinarily kept. It is a primary object and purpose of the present invention to provide an appliance into which the carton to be filled may be detachably placed, the whole being inserted into the ice cream, whereupon the carton fills therewith, after which by giving the appliance a rotary movement about a vertical axis, the cream within the carton is severed from the remaining bulk of cream and will stay in the carton when the appliance is lifted from the cream. A further object of the invention is to provide an appliance of this character in which the cartons used may be easily placed before filling and as readily removed after filling. Various other objects and purposes than those enumerated will appear as understanding of the invention is had from the following description, taken in connection with the accompanying drawing, in which,

Fig. 1 is a partial sectional and side elevational view of the appliance with a carton therein.

Fig. 2 is an elevation showing the parts of the appliance separated and a carton partly inserted in the lower part.

Fig. 3 is an under plan view of the carton holder portion, showing the transverse severing wire, and

Fig. 4 is a fragmentary elevation showing the pin connection between the two parts of the device at one side.

Like reference characters refer to like parts in the different figures of the drawing.

In the construction, a cylindrical receptacle or container 1 is used, formed at its lower end with an inwardly projecting horizontal annular shoulder 2 against which the edge of the open end of the carton is to bear. A cross wire 3 extends across the lower end of the container 1, passing substantially across the center of the container. At one side and adjacent the upper end of the container, a handle 4 is secured permanently in any suitable manner at the inner side and lower portion of which a latch receiving opening 5 is made. At the side of the container opposite the point of attachment of the handle, a pin receiving opening 6 is made therethrough.

Associated with the container is a combined cover and handle member, comprising a head 7 adapted to fit within the upper end of the carton container, from which an integral bar or rod 8 extends upwardly, the same terminating in a handle 9. At one side the head 7 is equipped with an outwardly projecting pin 10 to go through the opening 6. The head 7 is formed with an integrally cast upwardly projecting boss 11 on its upper side, bored to slidably receive a latch pin or bolt 12 which is normally pressed outwardly by the spring 13. An operating finger 14 is attached to the bolt and passes through a slot 15 in the upper side of the boss whereby the latch bolt may be manually drawn back to inoperative position.

In the use of the appliance, a cylindrical carton 16 having an open end is placed in the container 1 with its open end down, the edges thereof resting on the annular shoulder or ledge 2, after which the head 7 with attached handle 9 is placed in the upper end of the container and secured by passing pin 10 into opening 6 in the container and then forcing the opposite side of the head downwardly so that the inclined under side of the latch bolt 12 rides on to the curved side of the handle 4 and into the opening 5. As thus secured together, the container with the carton is pushed down into the ice cream, which fills the container when it is forced far enough into the cream. The whole appliance is then turned about a vertical axis, whereby wire 3 cuts the ice cream contained in the carton from the rest of the cream. The appliance may then be lifted out with carton filled with ice cream. The head 7 and attached handle are then removed by pulling the latch bolt 12 back so as to be free from the opening at 5, after which the container is reversed in position and the same struck sharply to jar the carton loose. This

is best done by striking the projection 4ª on handle 4 against any solid structure, as the counter or the like, the carton filled with ice cream readily dropping out of the container, as is evident.

This construction of ice cream carton filler is relatively simple in construction and can be manufactured at low cost. It is particularly simple in operation and has proved exceptionally effective in service. The device can be used to remove all of the ice cream from a receptacle therefor without waste, and while the carton is completely filled, it is not over filled through outward expansion as the carton is held to form by the outside container therefor.

The appended claims define the invention and we consider ourselves entitled to all forms of construction coming with the scope thereof.

We claim:

1. An appliance of the class described, comprising a container open at both ends and adapted to have a carton held therein, a head for filling the upper end of the container, means for detachably securing the head in place in said end of the container, and handle members secured to both the head and said container and projecting upwardly therefrom, substantially as described.

2. An appliance of the class described, comprising a container open at both ends, and formed adjacent one end with an annular horizontal ledge, a wire extending across said end of the container, a head detachably connected to the container and filling the opposite end thereof, and handle members secured to both the container and head and projecting upwardly therefrom, substantially as described.

3. An appliance of the class described, comprising a container for cartons, said container at one end having a cross wire extending across between the sides thereof, and means detachably secured at the opposite end of the container for securing a carton therein, substantially as described.

4. An appliance of the class described, comprising a container for cartons open at both ends, means on the inside of and adjacent one end of the container against which the edges of the carton at its open end bear, a wire positioned across the same end of the container, a head closing the opposite end of the container, and means for detachably securing the head in place against the closed end of the carton.

5. An appliance of the class described, comprising a container for cartons open at both ends, means on the inside of and adjacent one end of the container against which the edges of the carton at its open end is adapted to bear, a wire positioned across the same end of the container, a handle extending upwardly from the container at one side thereof, said handle having a latch bolt receiving opening therein at its inner side, and said container having an opening therethrough at a point substantially directly opposite, a head for fitting into the other end of the container against the carton therein, a pin on the head to enter said opening in the container, and a spring actuated latch bolt adapted to enter the opening in the handle, said bolt being mounted on the head.

6. A construction containing the elements defined in combination in claim 5, combined with manually operable means for withdrawing the latch bolt.

7. In combination with a container for cartons having a cross wire across one end thereof, of means detachably secured in and closing the other end thereof, said means being provided with a handle for turning the container about its longitudinal axis.

In testimony whereof we affix our signatures.

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