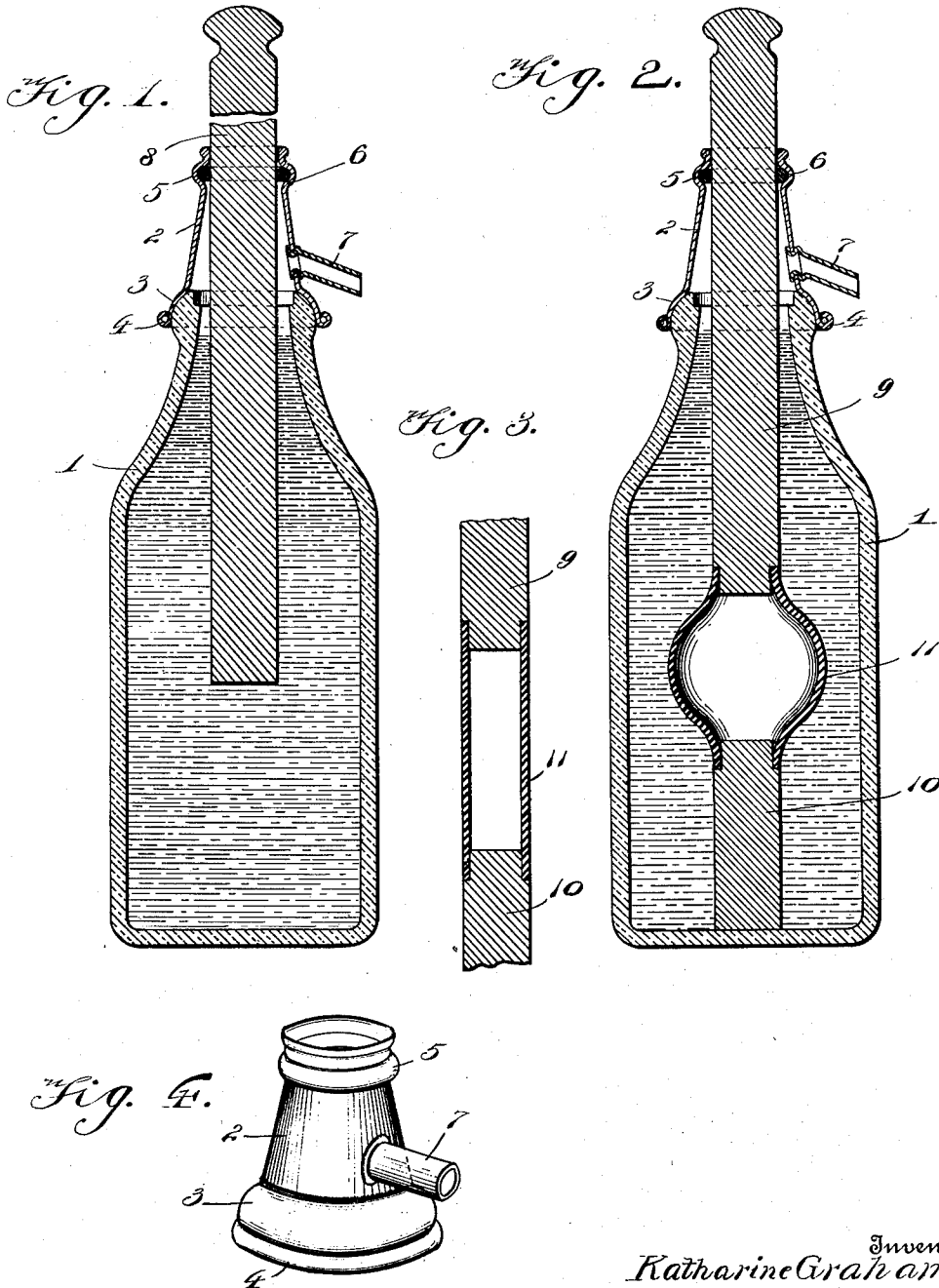


K. GRAHAM.
 DEVICE FOR MILK BOTTLES.
 APPLICATION FILED JAN. 24, 1912.

1,042,909.

Patented Oct. 29, 1912.



Witnesses

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KATHARINE GRAHAM, OF BALTIMORE, MARYLAND.

DEVICE FOR MILK-BOTTLES.

1,042,909.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed January 24, 1912. Serial No. 673,095.

To all whom it may concern:

Be it known that I, KATHARINE GRAHAM, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Devices for Milk-Bottles, of which the following is a specification.

The present invention relates to an attachment for milk bottles.

In carrying out my invention I propose to provide a bottle with a suitable cap or dome having an outlet spout and which is provided with a reciprocatory rod whereby the contents of the bottle will be agitated to cause the cream to rise and to flow through the outlet spout of the cap.

With the above recited objects in view and others which will appear as the nature of the invention progresses, the invention resides in the novel construction, combination and arrangement of parts set forth in and falling within the scope of the appended claims.

In the drawing, Figure 1 is a vertical longitudinal sectional view taken through the milk bottle and through the improvement which is attached thereto. Fig. 2 is a similar sectional view illustrating a slightly modified form of the reciprocatory member. Fig. 3 is a detail sectional view taken through the expansible portion of the reciprocatory member illustrated in Fig. 2. Fig. 4 is a perspective view of the cap or dome.

Referring now to the drawings in detail, the numeral 1 designates an ordinary milk bottle.

The numeral 2 designates a cap or dome for the bottle. This cap is preferably constructed of metal and is of a substantially frusto-conical formation in side elevation. The lower and enlarged portion of the cap is provided with an outwardly bulging annular portion 3, the same terminating in a continuous bead 4. The bulging portion 3 is adapted to snugly engage with the rounded mouth of the bottle neck, and the cap adjacent its reduced end is further provided

with an annular pocket 5, which is adapted to receive a gasket or compressible washer 6.

The cap is provided with an outlet spout 7, and the numeral 8 designates a plunger rod which is adapted to project through the cap and to be engaged by the washer 6 thereof. By reciprocating the plunger 8 it will be noted that the milk within the bottle will be agitated to cause the cream to rise and to find an exit through the spout 7.

In Figs. 2 and 3 the cap or dome is constructed similar to that just described, but the plunger comprises a pair of sections 9 and 10 which are connected together through the medium of a compressible or an elastic tube 11. The elastic tube is adapted to be expanded when the upper section 9 of the plunger is forced toward the lower section 10, as illustrated in Fig. 2 of the drawing, and the said bulging or expansion of the member 11 will cause the cream to rise and to flow through the pipe 7 of the cap.

From the above description, when taken in connection with the accompanying drawing, the simplicity of the device, as well as the advantages thereof, will, it is thought commend themselves to those skilled in the art to which such inventions appertain without further detailed description, it being understood that the bulging portion 3 of the cap may be constructed of some resilient material so as to tightly compress against the mouth of the bottle and to sustain itself thereon.

Having thus described the invention, what I claim is:—

1. In combination with a milk bottle, of a frusto-conical cap, said cap having its lower extremity provided with an outwardly bulging portion, said bulging portion adapted to resiliently engage with the mouth of the bottle, the cap being provided with an outlet spout, the cap being further provided with a continuous pocket, a washer within the pocket and a reciprocatory rod passing through the cap and within the bottle and adapted to be engaged by the washer.

2. In combination with a milk bottle, of a cap resiliently connected with the top of the bottle, said cap being provided with an outlet spout, a washer within the cap, a reciprocatory member passing through the cap and within the bottle, and adapted to be contacted by the washer, the said reciprocatory member comprising an upper and a lower section and a tubing of elastic mate-

rial connecting the upper and the lower sections, substantially as and for the purpose set forth. 10

In testimony whereof I affix my signature in presence of two witnesses.

KATHARINE GRAHAM.

Witnesses:

W. M. CRONE

F. BROWN.