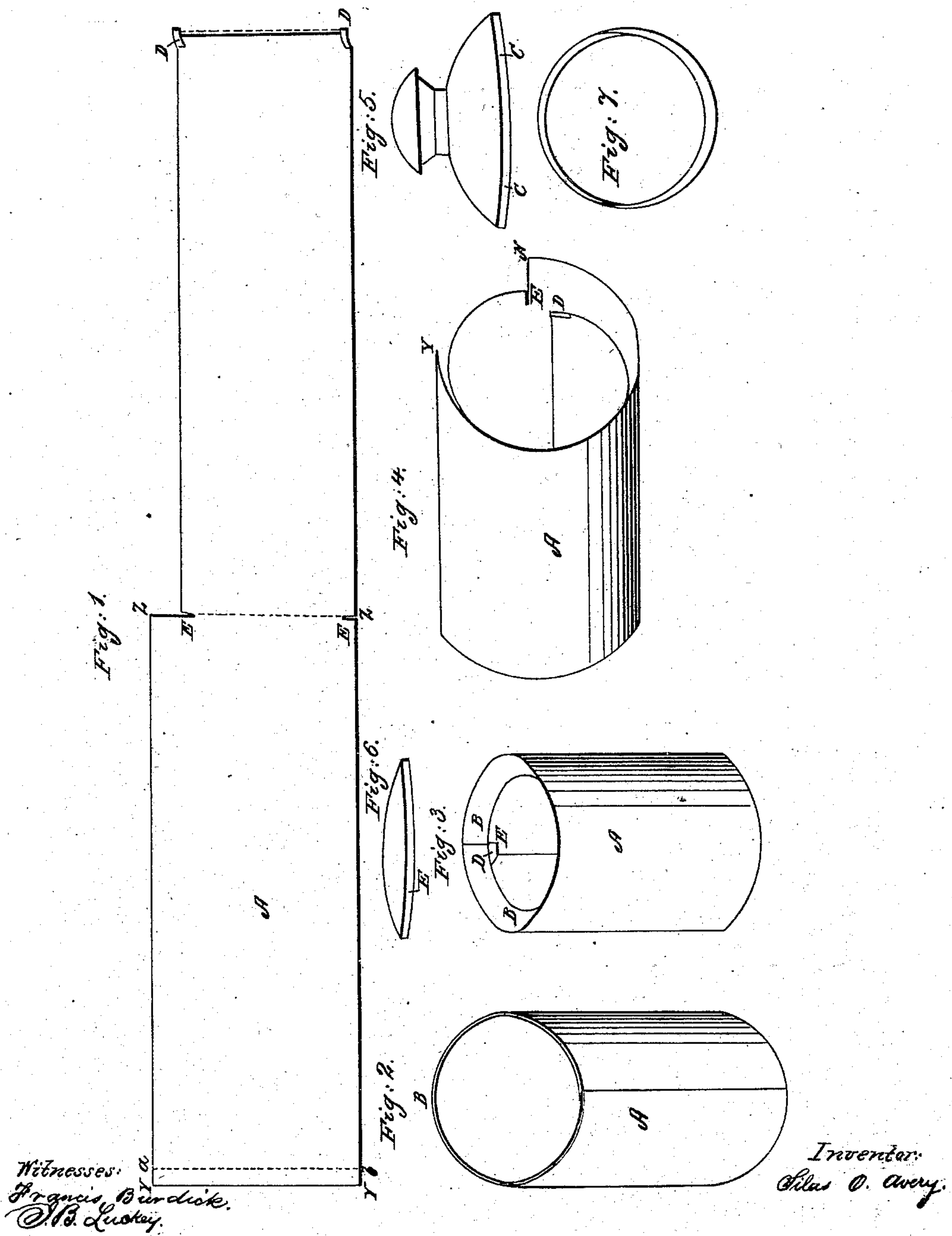


S. O. AVERY.
Construction of Milk Cans.

No. 70,150.

Patented Oct. 29, 1867.



United States Patent Office.

SILAS O. AVERY, OF BREWSTER'S STATION, NEW YORK.

Letters Patent No. 70,150, dated October 29, 1867.

IMPROVEMENT IN THE CONSTRUCTION OF MILK-CANS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SILAS O. AVERY, of Brewster's Station, in the town of South East, county of Putnam, and State of New York, have invented a new and improved Mode of Making Cans or Vessels to contain Milk or other liquid substances so as to prevent their being affected by heat or cold; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon.

The nature of my invention consists in the formation of a can or vessel to contain milk or other liquid substances, from one piece or strip of tin, or other metal, so arranged as to form a cylindrical air-chamber between the inner and outer surfaces of the can or vessel, thereby securing a uniformity of temperature to the liquid contained in the can or vessel at all seasons of the year, and in all climates.

To enable others to make and use my invention, I will first proceed to explain the different figures on the diagram accompanying this specification, and will then describe its particular construction from the parts so delineated.

Figure 1 represents the piece or strip of tin or other metal from which the body of the can or vessel is to be formed.

Figure 2 represents the can or vessel in an upright position, fastened and soldered, with the upper section of the air-chamber marked B and colored red. This is prepared to receive the top, fig. 5, and the bottom, fig. 6.

Figure 3 represents the cylindrical part of the can or vessel reversed so as to show the air-chamber, marked B and colored red, and the depression to receive the bottom within the outer and against the inner surface.

Figure 4 represents a sectional view of the strip or piece of metal of which the body of the can or vessel is formed in process of coiling or rolling to form the double cylinder, with the clamps D D and the incisions E E, as marked in fig. 1.

Figure 5 represents the top of the can or vessel, with the drooping edge marked C, intended to fit and be soldered into the air-chamber marked B in fig. 2.

Figure 6 represents the bottom of the can or vessel, with like drooping edge, to be fitted inside the outer and against the inner cylinder of fig. 3.

Figure 7 represents a ring or hoop, to be placed under the bottom and inside of the outer surface of the cylinder.

N. B. The blue lines represented on figs. 2 and 3 show the soldering of the can.

Now, to describe the construction of my invention to enable, others to make and use the same—

First, I take a piece or strip of tin or other metal, of sufficient strength and size to form the double cylinder of my can or other vessel. This I cut in the form as represented in fig. 1, the clamps D D and the incisions E E being intended to hold the inner surface of the can or vessel, when coiled or rolled into a cylinder, in the right position for soldering. The outer surface, represented in fig. 1 by the letters Y Z, should be cut sufficiently long to overlap the inner surface, represented by the dotted lines marked e d, to the extent, at least, of two or three inches in a can or vessel intended to contain forty quarts, and more or less in proportion for a larger or smaller can or vessel.

Second, I roll the piece or strip of tin or other metal in such manner as to form a double cylinder, fastening one end of the piece or strip at each corner by the clamps marked D D to the incisions marked E E, and also by soldering the whole length of the cylinder firmly, inside and outside, as shown in fig. 3.

Third, I fasten the bottom, represented by fig. 6, firmly by soldering, by inserting the drooping edge marked F into the inside of the outer cylinder, and against the inner cylinder of the can or other vessel, and also attach firmly in the same manner the top to both cylinders. I insert the ring or hoop, fig. 7, under the bottom for greater strength and security.

What I claim as my invention, and desire to secure by Letters Patent, is—

The making of a can or vessel to contain milk or other fluid substances, from one piece or strip of tin or other metal, so constructed, in the manner and with the devices described, as to have between the inner and outer surfaces an air-chamber, perfectly sealed, and impervious to the external effects of atmospheric heat or cold, and which may be applied to all cylindrical vessels composed of tin or other metals, and designed to contain fluid substances.

SILAS O. AVERY.

Witnesses:

FRANCIS BURDICK,

J. B. LACKEY.