

T. CURTIS.  
BUTTER EXTRACTOR.

No. 104,120.

Patented June 14, 1870.

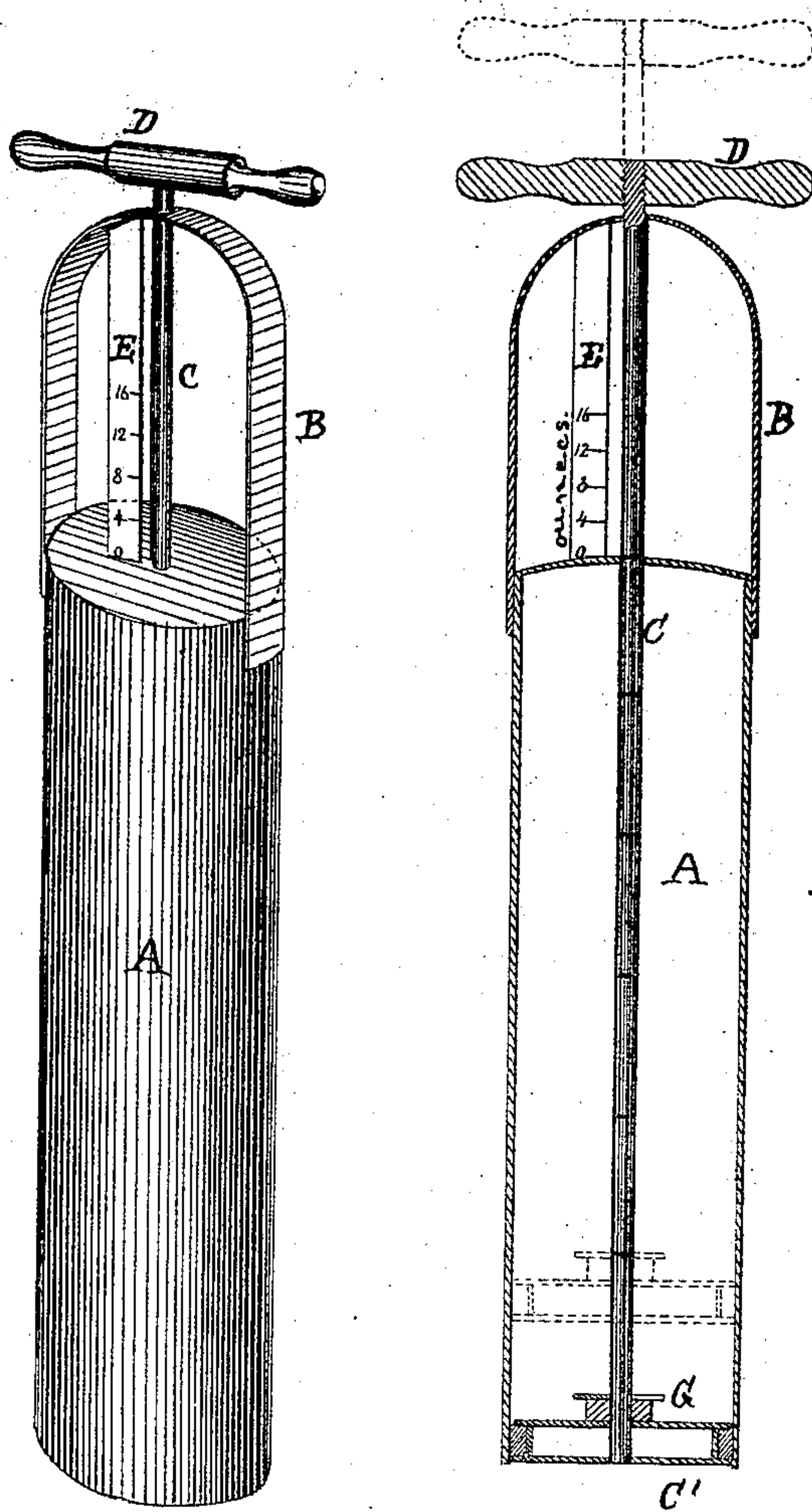


Fig. 1.

Fig. 2.

Attest

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# United States Patent Office.

THOMAS CURTIS, OF HOLLY, MICHIGAN.

Letters Patent No. 104,120, dated June 14, 1870.

## IMPROVEMENT IN BUTTER-EXTRACTOR.

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, THOMAS CURTIS, of Holly, Oakland county, Michigan, have invented a new and improved Machine for Extracting Butter from vessels in which it is packed in mass, and leaving it in rolls, and giving the weight of each roll, ready for retailing without working or weighing; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters and references marked thereon.

My invention consists of a tube made of tin, or its equivalent, open at one end and covered at the other, from two to six or more inches in diameter, and long enough to reach to the bottom of a butter-tub or crock.

To the inside of this tube is fitted a piston, which runs up and down like the piston to a pump. The upper end of the piston-rod passes out through a hole in the center of the cover to the upper end of the tube, and also through a corresponding hole in the handle of the machine, which passes in a bow over the top of the tube, and is fastened to each side thereof.

To the upper end of the piston-rod is a handle, put on with a screw, to take hold of to work the piston up and down.

The head of the piston runs up and down inside of the tube, and is packed, so as to run air-tight.

Around the piston-rod, above the head of the piston, is a piece of India rubber, which sits firmly against the inside of the hole in the cover, through which the piston-rod passes, which shuts it air-tight and causes a partial vacuum, which prevents the butter from sliding out of the tube until it is pushed out by the piston.

On the upper end of the piston-rod are marks, indicating the number of pounds of butter in the tube, in proportion to the length of the roll.

Each mark on the piston-rod indicates one pound as it appears above the cover, and the parts of a pound are indicated as the marks pass up along the scale.

The machine is worked in the following manner, for extracting the butter from a vessel in which it is packed in mass:

First, place the piston-head at the open end of the tube; then insert the tube into the butter to the bottom of the vessel, or as deep as desired to draw the butter; then draw the piston, with a quick motion, to the top of the tube, so that the India rubber around the piston-rod comes in contact with the inside of the hole in the top of the tube and closes it air-tight; then draw the tube from the vessel, and it will contain a roll of butter as long as the depth of butter into which it was inserted; then, by pushing the piston down into the tube, the roll of butter is forced out at the lower or open end of the tube, and contains as many pounds as are indicated by the marks on the piston-rod above the cover.

The accompanying drawings represent the instrument.

Figure 1 represents a perspective view of the instrument, with the head of the piston in position to be inserted. A is the cylinder; B is the handle to the top of the cylinder; C is the upper end of the piston-rod; D is the handle of the piston-rod; E is the scale of weights.

Figure 2 represents a sectional view of the instrument. A is the cylinder; B is the handle of the cylinder; C is the head of the piston; C is the piston-rod; G is the India rubber around the piston-rod; E is the scale of weights.

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

The combination and arrangement of the cylinder A, graduate piston-rod C, valve G, and scale E, as and for the purposes herein specified.

THOMAS CURTIS.

Witnesses:

B. L. RANSFORD,

J. C. SIMONSON.