

T. A. CLARK & H. C. MASCROFT.
FRUIT JAR COVER.

No. 107,003.

Patented Sept. 6, 1870.

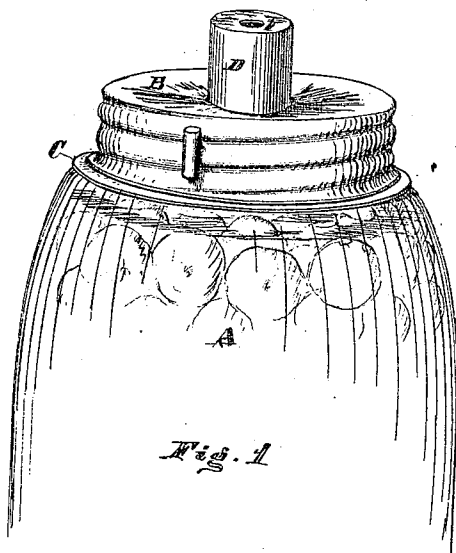


Fig. 1

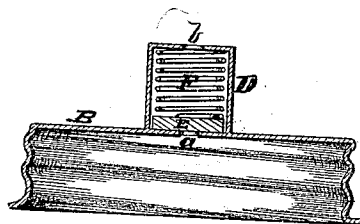


Fig. 2

Witnesses

Wm. H. Dodge
A. E. Prince

Inventors

Thomas A. Clark
Henry C. Mascroft

United States Patent Office.

THOMAS A. CLARK AND HENRY C. MASCROFT, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 107,003, dated September 6, 1870.

FRUIT-JAR COVER.

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

To all whom it may concern:

Be it known that we, THOMAS A. CLARK and HENRY C. MASCROFT, both of the city and county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Fruit-Jar Covers; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification, in which—

Figure 1 represents a perspective view of our improved fruit-jar cover, and

Figure 2 represents a central vertical section of the same.

To enable those skilled in the art to which our invention belongs to make and use the same, we will proceed to describe it more in detail.

The nature of our invention consists in the combination, with the cover of a fruit-jar, of an air-valve, spring, and cylinder for inclosing and supporting the same, arranged substantially as hereinafter described.

In the drawing—

The part marked A indicates the jar;

B the cover; and

C, the rubber packing-ring.

The cover B is, in this instance, made to screw on to the top of the jar A, but it may be secured to the jar in any other well-known manner if preferred.

In the top of the cover B is formed a small hole, *a*, and above said hole is arranged a metallic cylinder, D, in the top of which is formed a similar hole, *b*.

A valve, E, of rubber or other suitable material, is arranged in the lower part of the cylinder D, which covers the hole *a* in the cover B, upon which it is pressed firmly down by a coil-wire spring, F, which latter is arranged within the cylinder D above the valve E, as fully shown in the drawing.

Instead of a coiled wire spring, F, a spring of any other material, or even a weight, may be used for holding down the valve E.

Its operation is as follows:

The jar being filled with fruit, the cover is placed on and screwed down upon the packing-ring C, or otherwise fastened to the top of the jar. The jar is

then heated, and the expansion of its contents forces the air out through the hole *a*, the valve E readily rising to permit its passage.

When the air has thus all been forced out, the jar is allowed to cool. The valve E is drawn closely down over the hole *a* as the contents of the jar contract, so that no air can re-enter the jar, and a vacuum is thus formed which is much more perfect than can be obtained with the jar-cover in ordinary use. Consequently, the fruit is preserved in a much better condition, while, at the same time, the operation of canning is simplified and rendered less laborious and objectionable, as will be fully understood and appreciated by those skilled in the art to which our invention belongs.

The devices herein shown and described present an exceedingly convenient and cheap arrangement for accomplishing the results above named. They occupy but little space upon the cover, and it is not necessary to fasten the valve or spring to the cover, as they are both contained within the cylinder D, which fits around the valve so as to steady it and insure its position above the opening in the cover, while it, in like manner, supports and holds in place the spring or weight by which the valve is pressed down, so that, by simply fastening the cylinder to the cover, both the valve and spring are at once held in position above the opening which they are the means of closing.

We are aware that heretofore a valve has been held by spring pressure over an opening in the cover, and this we do not claim; but

Having described our improvements in fruit-jar cover,

What we claim therein as new and of our invention, and desire to secure by Letters Patent, is—

A fruit-jar cover provided with the valve E, spring F, and cylinder D, arranged for operation as herein shown and described.

THOMAS A. CLARK.
HENRY C. MASCROFT.

Witnesses:

THOS. H. DODGE,
A. E. PEIRCE.