

J. BRYANT.

Fruit Jar.

No. 40,552.

Patented Nov. 10, 1863.

Fig. 1.

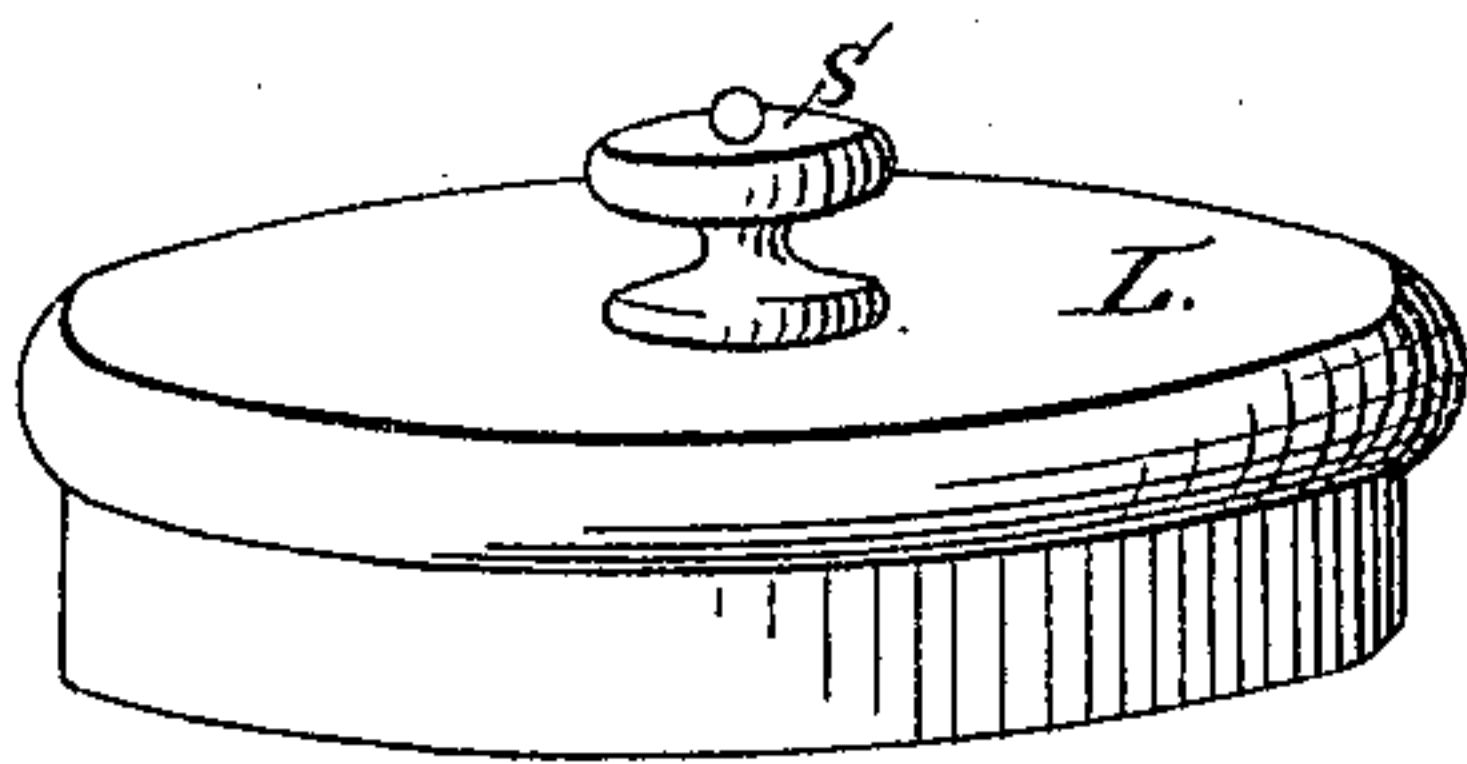
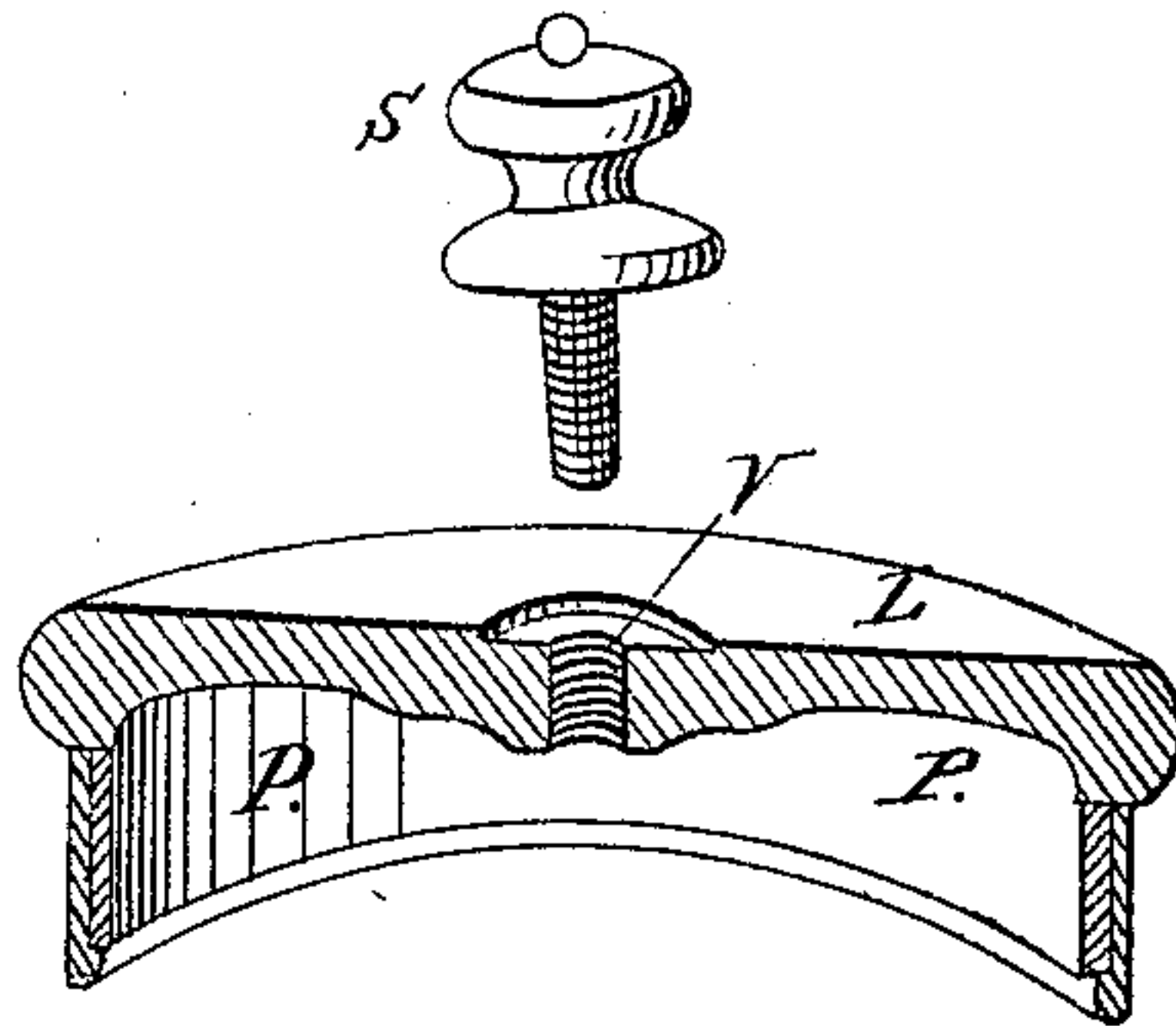


Fig. 2.



Witnesses:

Walter Nichols
Wm. Bryant

Inventor:

Joel Bryant

UNITED STATES PATENT OFFICE

JOEL BRYANT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LIDS OR COVERS FOR CANS, &c.

Specification forming part of Letters Patent No. **40,552**, dated November 10, 1863.

To all whom it may concern:

Be it known that I, JOEL BRYANT, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Mode of Constructing Covers for Jars or Cans; and I declare the following to be a full, clear, and correct description of the same, to wit:

The nature of my invention consists in providing covers for jars or cans with a plug or screw set in an opening or hole in the center of said cover for the escape and admission of air for securing and destroying a vacuum in jars or cans on which said covers are used.

To enable others skilled in the art to make and use my invention, I will proceed more fully to describe the construction and operation of my improved covers, reference being made to the accompanying drawings, and to the figures and letters marked thereon, and forming a part of this specification, to wit:

Figure 1 represents a perspective view of my improved covers as provided with an opening in their center, in which I set a plug or screw, S, or its equivalent, for the escape from or the admission of air into jars or cans in the process of putting up and preserving fruits and vegetable substances. Fig. 2 represents a half-section of my improved covers L as provided with a central opening, V, and a plug or screw, S, which is made to fit snugly into the said opening or hole V, so as to be raised up or screwed down into the said opening V for the escape of air or for the admission of air into jars or cans on which my improved covers L are used in putting up and preserving fruit or vegetable substances.

I make my improved covers L of any suitable substances, and substantially as other covers or stoppers are made, except that I form an opening or hole, V, in the center of said covers L, and form a plug or screw, S, substantially as shown in Figs. 1 and 2, and which is made to fit snugly into the said hole V, and so as to be raised up for the admission or escape of air, or forced down for the exclusion of air, as circumstances may require, in closing or opening jars or cans.

The object of my invention is to afford an

easy and reliable means for allowing the escape of air from jars or cans, and the securing a vacuum therein when the air has been expelled and while the jars or cans are in a hot bath, as also to secure atmospheric pressure on said covers L, and to remove the said atmospheric pressure when said jars or cans are to be opened.

The principal use of my improved covers L are that in their use on jars or cans the same may be filled with the fruits or substances to be preserved, and the covers L secured thereon so as to be air-tight before they are set in the hot bath, and when the jars or cans are thus filled and set in a hot bath, the plug or screw S may be loosened or raised, so that the air may escape through the hole V in the said covers L, and when the air has been expelled and a vacuum formed in said jars or cans then the said plugs or screws S may be forced or screwed down, so as to prevent the access of air and secure the vacuum which has been formed in said jars or cans, and then the top part of said plugs or screws S forms a very convenient means for lifting the jars or cans from the bath, the whole process of "sealing" being completed, the process being accomplished before the jars or cans are lifted, and in an easy, convenient, and secure way, as it affords no chance for the air to re-enter the jars or cans as there is in the ordinary way of lifting the jars or cans before sealing or securing them air-tight.

Having now described the construction, the nature, and use of my invention, I desire to secure the same by Letters Patent, and as follows, to wit:

The exclusive use of lids or covers L for jars or cans when provided with an opening, V, and plug or screw S, (or their equivalent,) when constructed and operating substantially as herein described, and for the purposes set forth.

JOEL BRYANT.

Witnesses:

WALTER NICHOL,
WM. BRYANT.