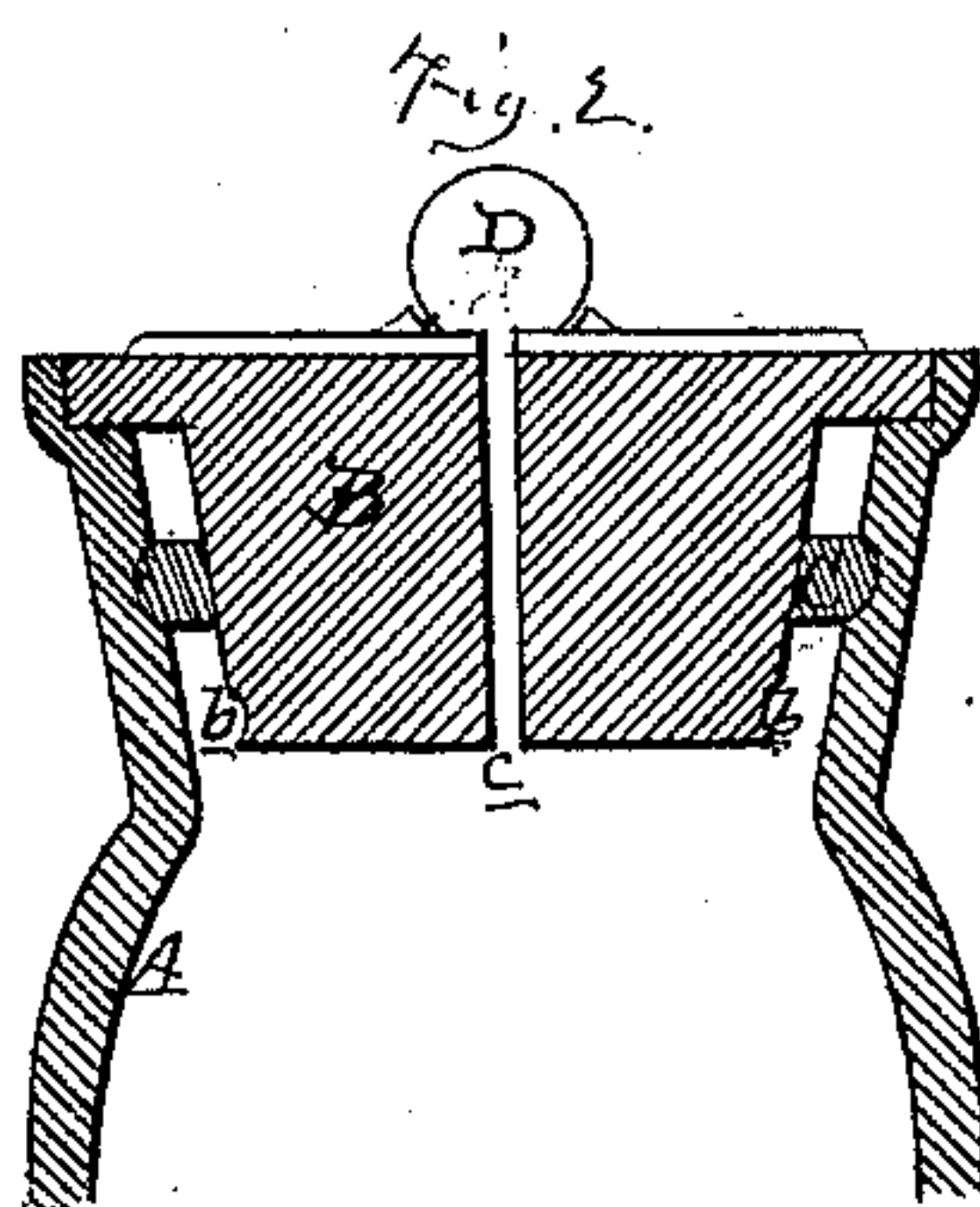
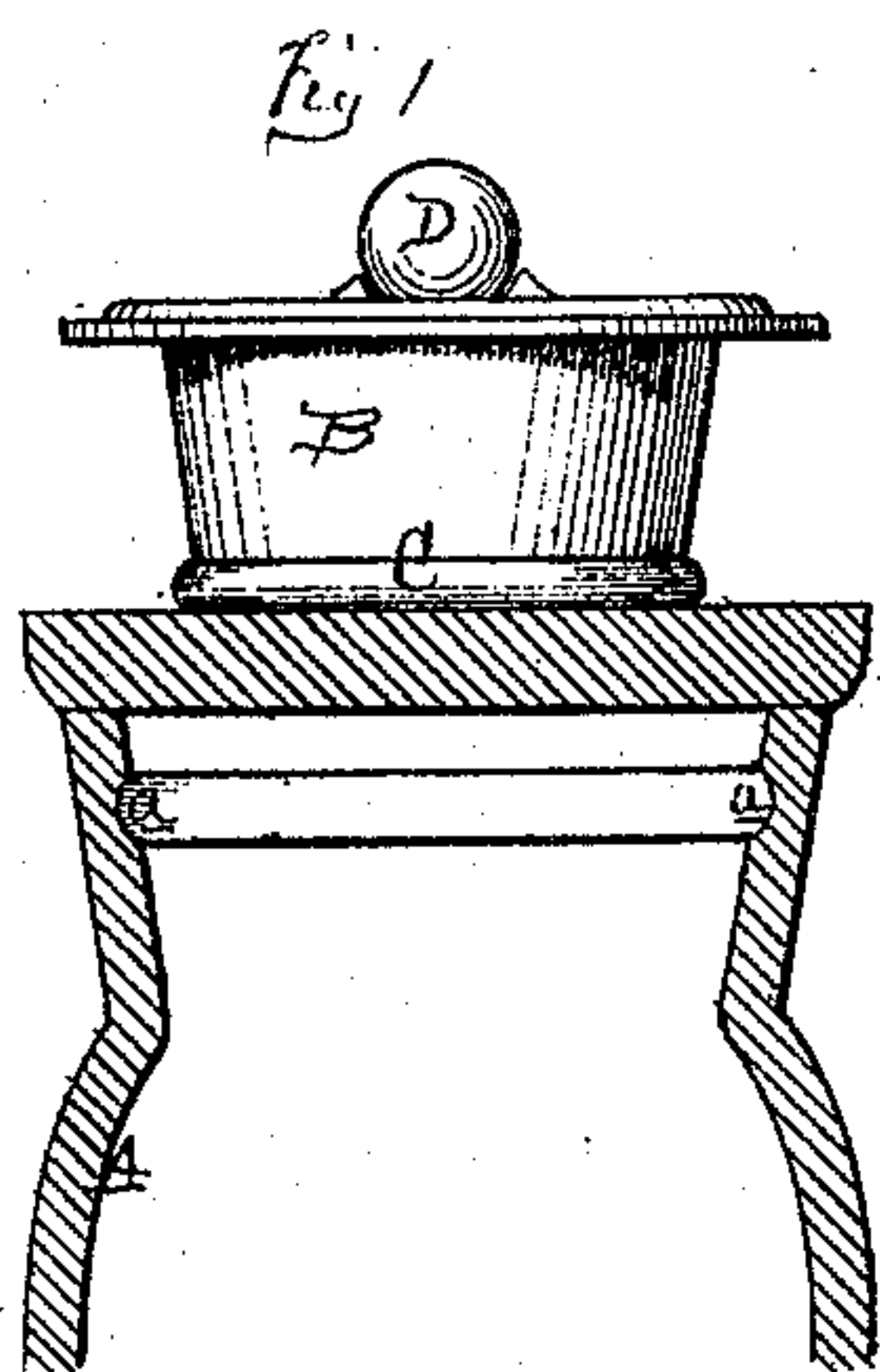


W. H. Daniels,

Fruit Jar.

No. 99,763.

Patented Feb. 15. 1870.



Attest
H. P. O'Brien
At. Co. Smith

Inventor.
W. H. Daniels
Per Atty
Thos. S. Sprague

United States Patent Office.

WILLIAM H. DANIELS, OF BRYAN, OHIO.

Letters Patent No. 99,763, dated February 15, 1870.

IMPROVEMENT IN FRUIT-JARS.

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

To whom it may concern:

Be it known that I, WILLIAM H. DANIELS, of Bryan, in the county of Williams, and State of Ohio, have invented a new and useful Improvement in Jars for Preserving Fruit; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a vertical section of my improved jar and elevation of cap, showing the latter in position to enter the mouth of the jar.

Figure 2 is a vertical section of the jar and cap, showing the jar sealed.

The nature of this invention relates to an improved construction of jars or cans, in which fruits, vegetables, and other articles may be hermetically sealed for preservation.

It consists in the peculiar arrangement of the cap and mouth of the jar for the employment of a ring of round India rubber as a gasket or packing between them.

In the drawings—

A represents a jar of glass, earthenware, or metal, having a flaring mouth, in the upper part of which is formed a groove, *a*.

B is a cap, of any suitable material, conforming in its outline to the mouth of the jar. It is formed with a groove, *b*, at its lower end, and provided with a minute vent-hole, *c*, passing up through it, said vent-hole terminating in a cup-shaped depression, *d*, on its upper surface.

C is a gasket or ring of round India rubber, stretched over the cap and seated in the groove *b*.

D is a small rubber ball fitting into the cup *d*, for closing the vent-hole *c*, which ball may be dispensed with and the vent closed by a drop of melted wax, or in any other convenient manner, if deemed preferable.

The jar being filled with hot fruit or other substance, the cap is inserted, as shown in fig. 1, the cap being of such diameter that the ring C will press against the interior walls of the mouth. The cap is then pressed down into the mouth, and, being conical, the ring rolls up toward its base and down into the mouth until it reaches the groove *a*, into which it enters. In the further passage of the conical plug of the cap, it is tightly compressed in its place. The rarified air in the mouth of the jar is partially displaced by the entrance of the cap, finding an exit through the vent-hole *c*, which is covered immediately by the rubber ball D, which is firmly held to its place in the cup *d* by the vacuum formed within the jar by the cooling of its contents. If preferred, the closure of the vent may be effected by filling the cup with a few drops of melted wax or other proper cement.

A modification of my improvement is shown in the drawings by an additional or explanatory figure, in which the arrangement of the parts is reversed. In this case the groove is formed on the outside of the neck of the jar, which is covered by a thimble having an internal groove near its lower edge for carrying down the gasket until it enters the groove in the neck.

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

The stopper B having inclined sides, and provided with an annular recess, *b*, in its lower end for holding the packing-ring, in combination with a fruit-jar having an inclined mouth, provided with an interior annular recess, *a*, into which the ring is forced and compressed by the stopper, as shown and described.

WM. H. DANIELS.

Witnesses:

H. F. EBERTS,
JAS. I. DAY,