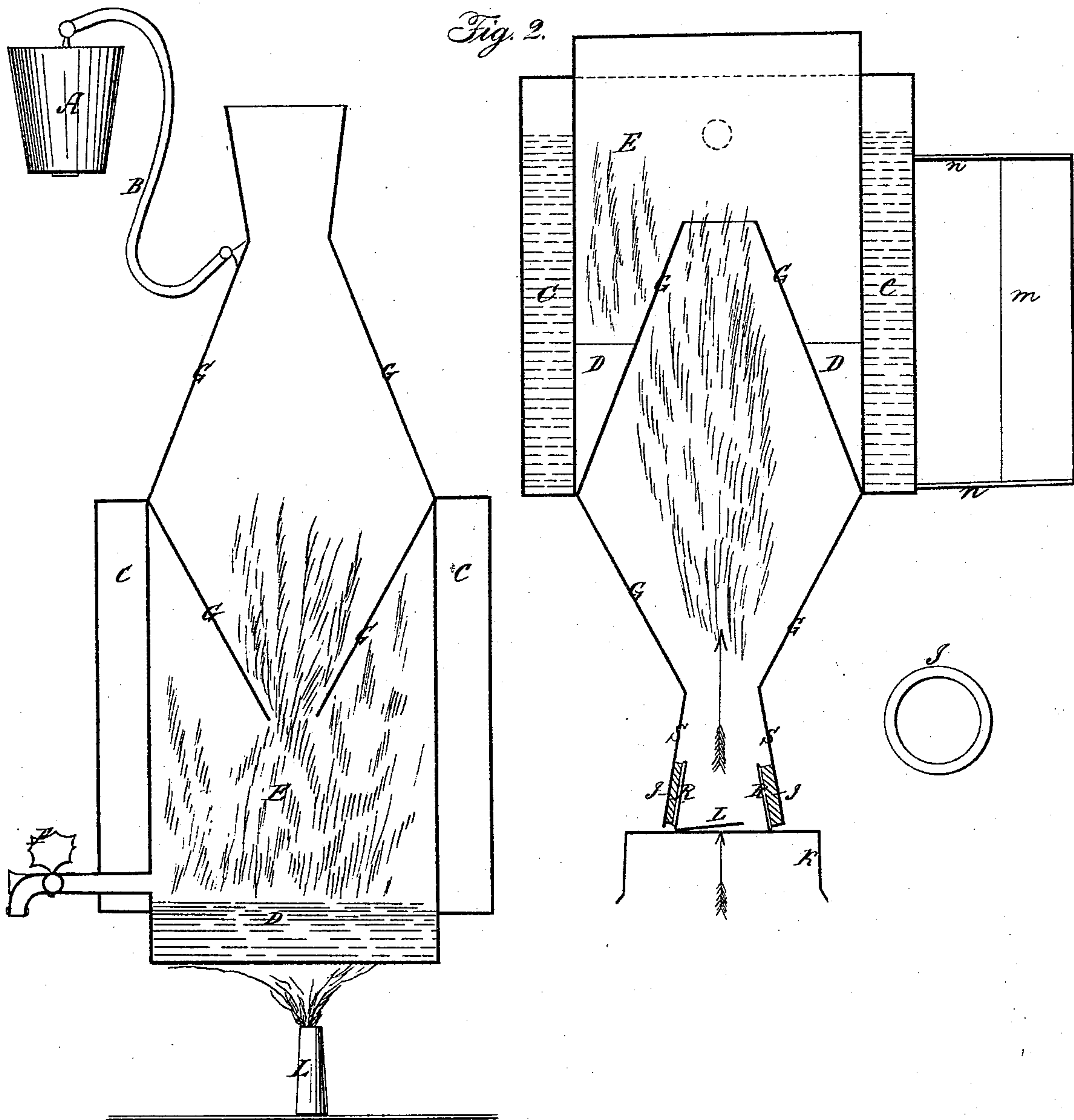


D. BEARDSLEY.  
Hermetic Sealing.

No. 61,506.

Patented Jan. 29, 1867.



Witnesses:

*Henry H. Howe*  
*Joseph Fowler.*

Inventor:

*Darius Beardsley*

# United States Patent Office.

DARIUS BEARDSLEY, OF ITHACA, NEW YORK.

*Letters Patent No. 61,506, dated January 29, 1867.*

## IMPROVED MODE OF EXHAUSTING AIR FROM FRUIT CANS BY STEAM.

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, DARIUS BEARDSLEY, of the village of Ithaca, in the county of Tompkins, and State of New York, have invented a new and useful Method of Exhausting Air from Fruit Cans and Jars by the use of Steam; and I do hereby declare that the following is a full and exact description of the same, and of the construction of the necessary implements used in my method, reference being had to the accompanying drawings and the letters of reference marked thereon.

The nature of my invention consists in the construction of an apparatus for the generation and condensing of steam, and attaching it to top of fruit-can or jar in such manner that the condensing of the steam will exhaust the air from the fruit-can or jar.

To enable others to make and use my invention, I will describe its construction and operation.

Figure 1, of the annexed drawings, represents a sectional elevation of my steam apparatus as in the operation of generating the steam by means of a lamp, H, (or any other means of heating,) and the water D.

Figure 2 represents a sectional elevation of my steam "apparatus," at right angles with fig. 1, and in the act of condensing the steam and exhausting the air from the fruit-can or jar.

I construct a cup or pot, E, of any desired form or size, with a double convex chamber, secured to the mouth and extending into the vessel E, as shown in the drawings, and open at the lower end, as shown by the lines G G. This cup or pot E I surround with an outer cup or pot, C C, open at the lower end, for the purpose of forming a chamber for filling with cold water, as shown by O O, fig. 2. I also provide the pot or cup E with an escape pipe, P, and faucet F, as shown in fig. 1, for the purpose of the escape of the air while generating steam, and to show when the steam-chamber is full of steam, which is done by leaving the faucet F open. I also provide the pot or steam-chamber E with a cover, as shown by the continuation of the lines G G, the cover being provided with mouth, as shown by the lines S S, to be stopped with the cork A, while generating the steam, and to fit the projection R R, fig. 2, the joint being made air-tight by the use of a rubber ring, I I, fig. 2. When sufficient steam has been generated, (as shown by fig. 1,) to fill the steam-chamber E, the faucet F is then closed and the "apparatus" is then placed in an inverted position over the fruit-can cover (which is provided with a suitable receiver or projection, R R, to meet it as afore-described,) and the chamber C C filled with cold water O O for the purpose of condensing the steam in the steam-chamber E, and, by the condensing of the steam, exhausting the air from the fruit-can or jar, as shown by fig. 2; the cover K to the fruit-can being perforated and provided with a rubber valve, L, which is held to its place by the pressure of air after the can or jar has been exhausted of air by the above-described process. I also provide my steam apparatus with a handle, M, attached by strips N N.

Having described the construction and operation of my "steam apparatus" sufficiently to enable others skilled in the art to construct and operate the same, I will proceed to state what I claim and desire to secure by Letters Patent of the United States,

I claim—

1. The herein-described method of exhausting air from fruit-cans or jars by the condensing of steam.
2. I claim the double convex chamber, extending into the steam-chamber E, for the purposes specified.

DARIUS BEARDSLEY,

Witnesses:

G. F. BEARDSLEY,  
HENRY H. HOWE.