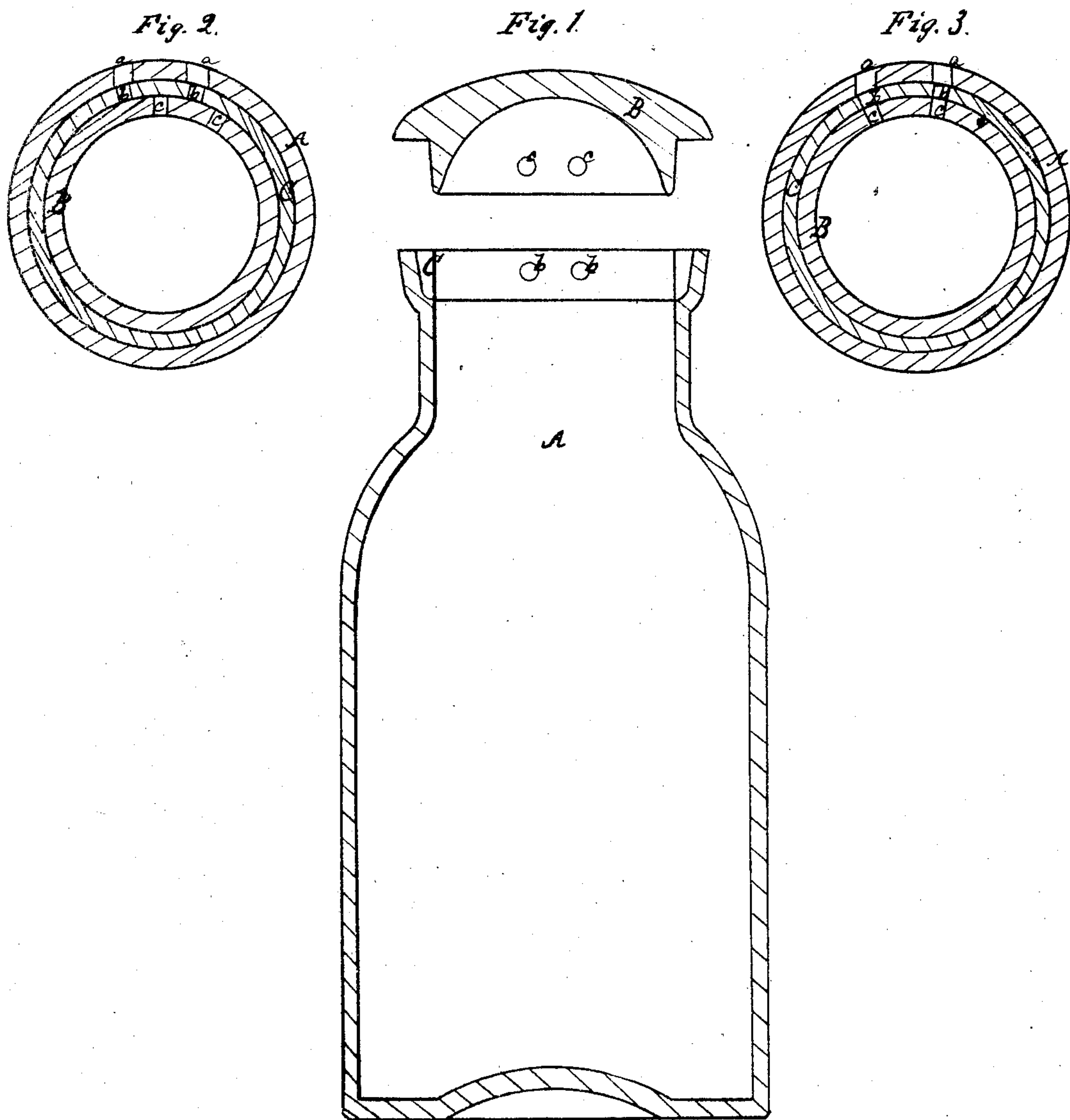


*A. Warner,  
Closing Fruit Jars.*

*Nº 76.008*

*Patented Mar 24. 1868.*



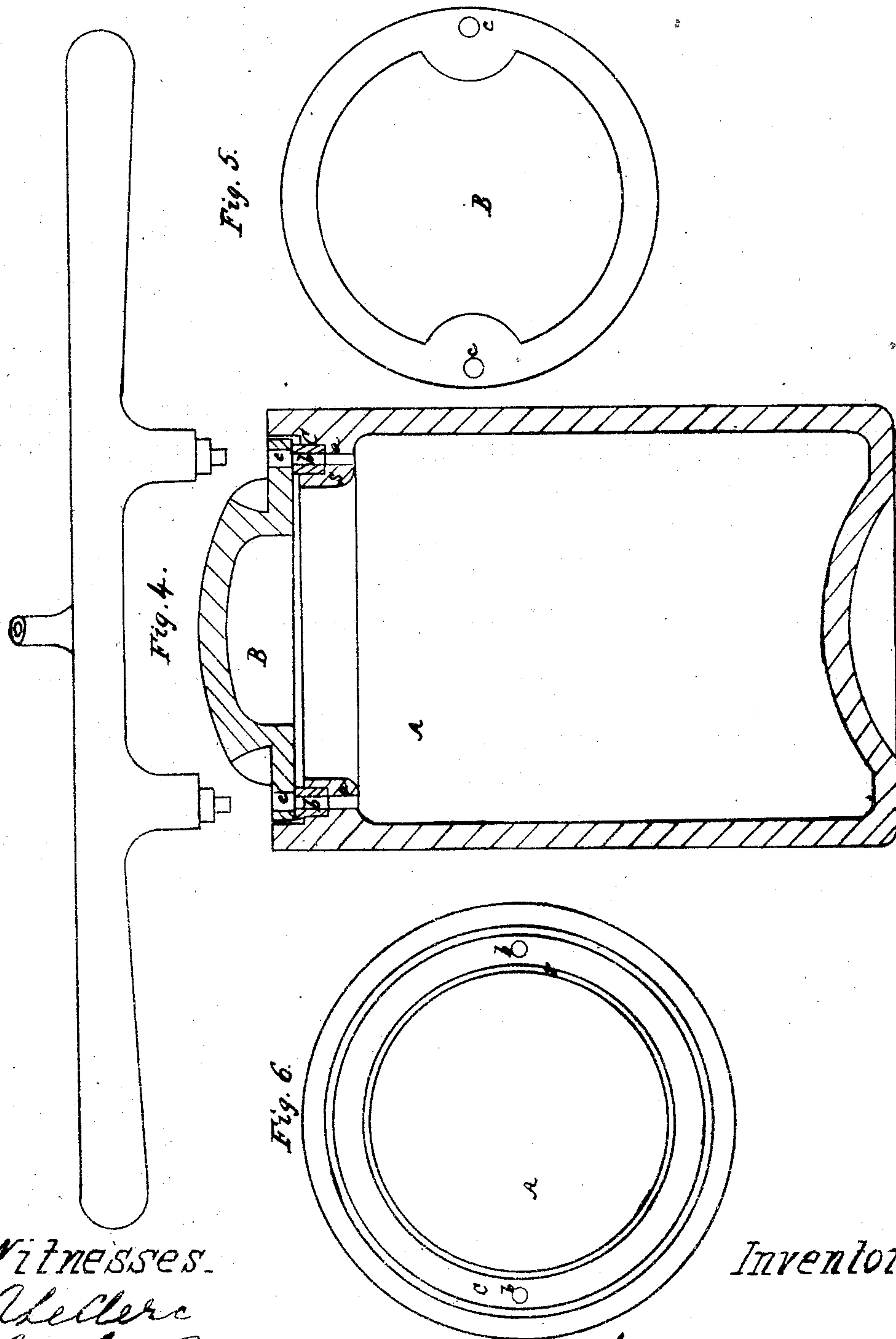
*Witnesses.*  
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*John Berenan*

*Inventor.*  
*Alexander Warner.*

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# United States Patent Office.

ALEXANDER WARNER, OF WILLIAMSBURG, NEW YORK.

*Letters Patent No. 76,008, date March 24, 1868; antedated March 18, 1868.*

## IMPROVEMENT IN FRUIT-JARS AND PRESERVING-VESSELS.

*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, ALEXANDER WARNER, of Williamsburg, (Brooklyn,) in the county of Kings, and State of New York, have invented a new and useful Improvement in Means for Closing Vessels for Preserving Fruits and other substances, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a vertical section of a preserving-jar, with its lid or stopper removed, in illustration of my improvement, and

Figures 2 and 3 inverted plans, taken through the neck or mouth and stopple of the jar, and showing the relative positions of the stopple therein, when opened and closed by the turning of the stopple.

Figure 4 represents a vertical section of a modification of the same, with, in red lines, a means or wrench for closing the jar by the turning of the latter or its lid, and

Figures 5 and 6 top views of the lid and mouth of the jar, constructed as represented in fig. 4.

Similar letters of reference indicate corresponding parts.

My invention consists in giving to the jar or vessel, and its lid or stopple, a valvular character, by constructing the stopple with perforations in or through it and the mouth or neck of the jar, and an elastic packing or gasket fitting or fitted therein, (if such gasket be used,) with similar perforations, so that, by simply turning the stopple in its seat, or turning the jar as against the stopple, the necessary vents for exhausting the jar may be opened or hermetically closed at pleasure.

Referring, in the first instance, to figs. 1, 2, and 3, of the drawing, A is a jar, and B its stopple, both of any suitable material. In or through the neck or mouth of the jar, is or are one, two, or more perforations, of any suitable shape, and said neck or mouth, that may be swelled out for the purpose, fitted with a rubber or other soft and elastic air-tight gasket or packing-ring, C, likewise provided with perforations *b*, corresponding to those, *a*, of the jar. The stopple B is shaped to fit down within and on or over this packing C, and cupped or hollowed and provided with side perforations *c*, corresponding to the perforations *a* and *b*, and so that, on simply turning the stopple, (which, by means of the gasket C, forms an air-tight joint with the mouth of the jar,) so as to bring the perforations *c* in or out of line with the perforations *a* and *b*, a vent is established for exhausting the jar, or the same hermetically closed, and which latter may be done during the finishing of the preserving or exhausting-process, or as it is completed, with the stopple in the same air-tight fit with the jar or its gasket as when said vents were open, whereby a rapid closing of the jar at the proper time is effected without any risk of air rushing in to mar the exhaustion of the jar. Of course it is immaterial whether the jar or stopple be turned to effect the closing. The jar may be exhausted through the vents formed by the perforations *a*, *b*, and *c*, either by the natural process of boiling the fruit or other substance to be preserved in the jar, with the stopple fitted to it, or by connecting said vents in any suitable manner with an air-pump for the purpose, and to effect which a wrench may be used, furnished with tubular prongs arranged to fit the aperture *a*, and serving alike as air-ducts or continuations of the vents, and projections or claws to hold on and facilitate the turning of the jar or its stopple, to close the vents *c*, or put them out of line with the perforations *a* and *b*.

In figs. 4, 5, and 6, the jar A has its apertures *a* arranged, vertically or otherwise, through a shoulder, *s*, instead of being disposed laterally through the neck of the jar, and said shoulder made to receive on, and preferably more or less within it, the elastic packing or gasket C, provided with perforations *b*, corresponding to the apertures *a*, while the stopple B, that fits within the mouth of the jar and on the gasket, has similar apertures, *c*, so that, as in the other modification, on turning the jar or its lid, to bring the apertures *c* in or out of line with the perforations *a* *b*, is the jar opened or closed, so far as its exhausting-vents are concerned.

In fig. 4 there is shown, in red lines, a wrench, as hereinbefore referred to, for closing the jar, and forming continuations to the vents or air-ducts for establishing the exhaust, the same being, say, made up of a stock or handle, provided with hollow prongs, arranged to fit the apertures *c*, and communicating with a suitable outside vent in or branch from the stock, that may, if desired, be connected by a flexible tube or otherwise with an air-pump, if exhausting the jar by suction.

In some cases, this gasket C may be dispensed with, and the lid made to fit and turn directly upon or in

close contact with the perforated portion of the jar, so as to throw the apertures *a* and *c* in or out of line to open and close the jar.

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

1. A vessel, with its lid, cover, or stopple, constructed and combined substantially as herein described, whereby a vent is opened and closed by simply turning the lid, cover, or stopple, or the vessel, the one relatively to the other, as herein set forth.

2. Likewise, in combination with the same, a perforated elastic packing or gasket, interposed between the lid or cover and perforated portion of the jar, substantially as specified.

ALEXANDER WARNER.

Witnesses:

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J. BRENNAN.