

J. C. BARTLETT.

COOKER.

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993,013.

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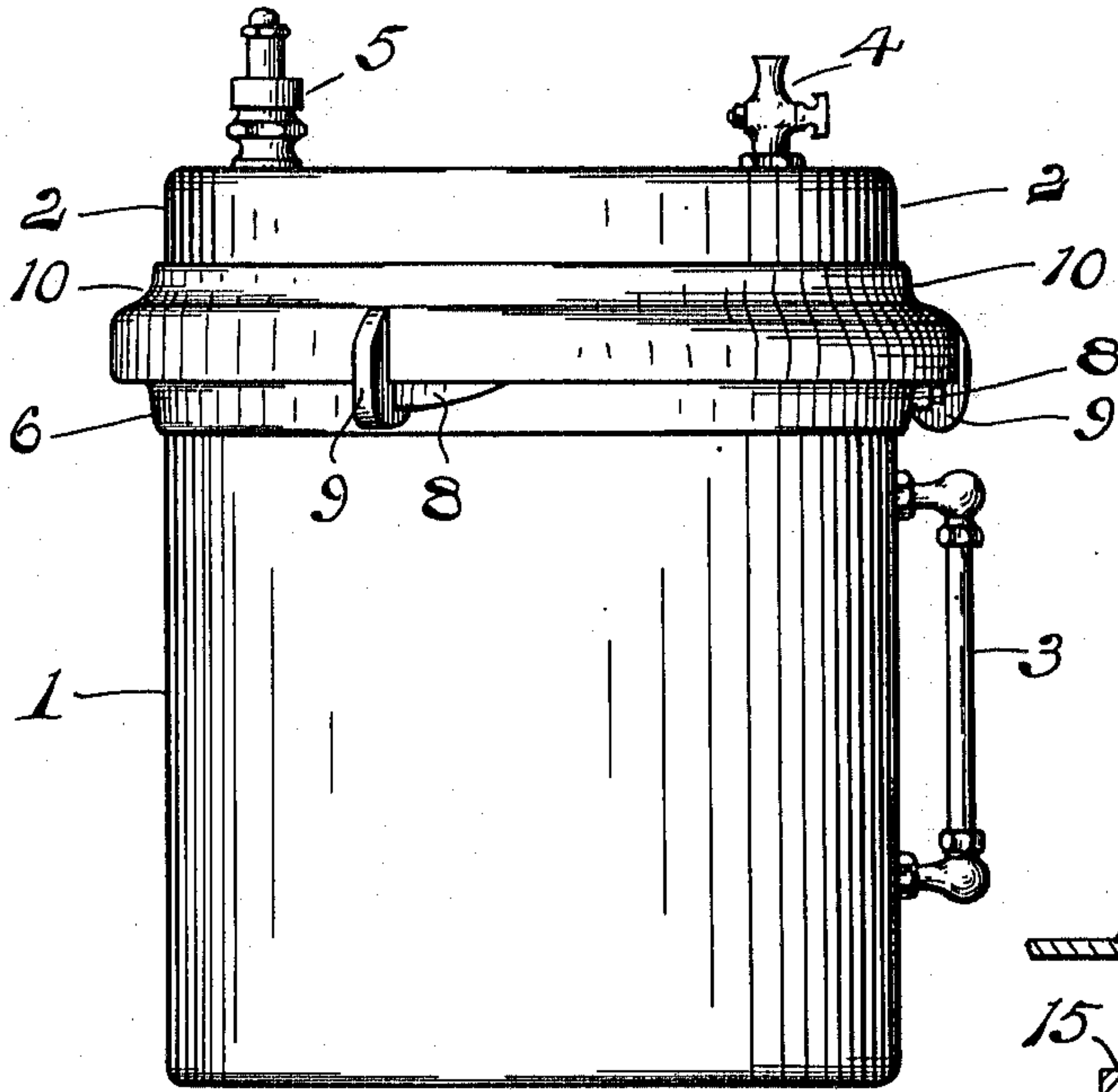


Fig. 1.

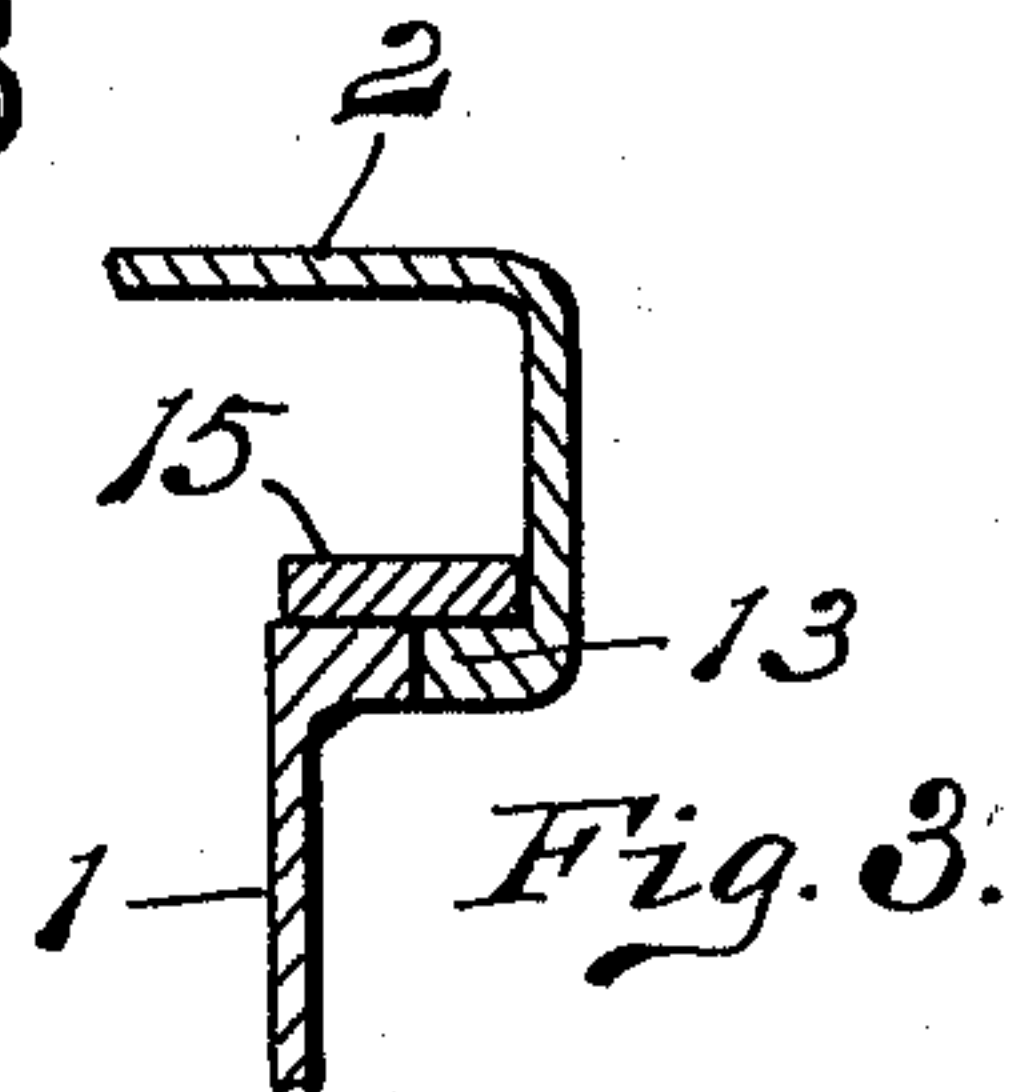


Fig. 3.

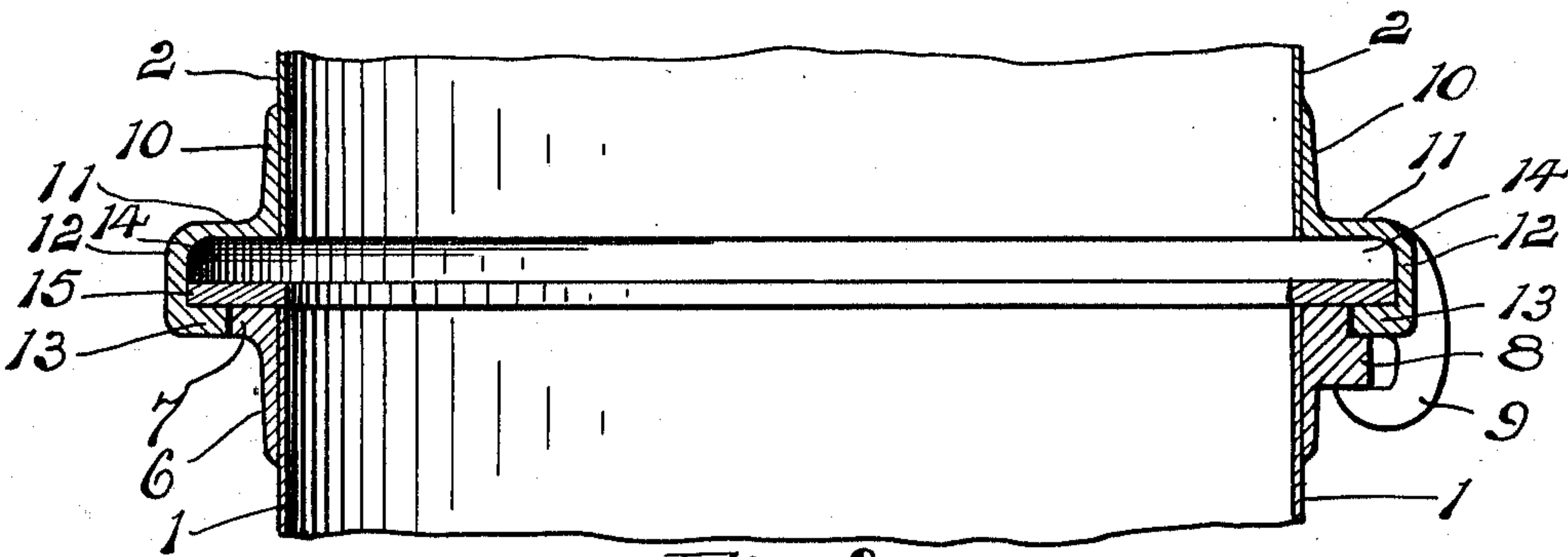


Fig. 2.

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UNITED STATES PATENT OFFICE.

JOHN C. BARTLETT, OF DETROIT, MICHIGAN.

COOKER.

993,013.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN C. BARTLETT, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Cookers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to an improved cooker especially adapted for cooking fruits and vegetables preparatory to canning them and its object is to provide a convenient and sanitary device for the purpose having simple and cheap means for forming a steam tight joint between the receptacle and its cover so that a steam pressure will be maintained in the receptacle to aid in the process of cooking.

20 To this end the invention consists in the construction substantially as shown and more particularly pointed out in the claims reference being had to the accompanying drawing in which,

25 Figure 1 is a side elevation of a device embodying the invention; Fig. 2 is an enlarged detail showing a cross section through the upper part of the receptacle; and Fig. 3 is a sectional detail of the modified construction.

30 As shown in the drawing 1 is a suitable kettle or receptacle of any desired size, form or construction, and 2 a cover or closure therefor. If found desirable the receptacle may be provided upon its side with a sight tube 3 of any well known form and the cover is preferably provided with a blow-off cock 4 and a pop valve 5 of any desired construction.

40 As shown in the drawing the receptacle 1 is provided with a rim or band 6 at its upper edge having an outwardly extending flange 7 provided with an upper smooth surface forming the upper edge of the receptacle. If found desirable however the receptacle may be formed with an integral outwardly extending flange as shown in Fig. 3. The ring 6 is also provided at intervals with lugs or projections 8 having slanting or inclined lower sides adapted to be engaged by downwardly extending hooks 9 upon a ring 10 secured to the lower edge of the cover 2. This ring 10 may be formed with a horizontally and outwardly extending flange 11 having an annular depending wall 12 upon the lower edge of which wall is formed, a

horizontally and inwardly extending flange 13 having a smooth upper surface lying in the plane of the smooth upper surface of the edge of the receptacle or flange 7 when the cover is in place. An annular chamber 14 is thus formed in the ring 10 and within this chamber is placed a ring 15 preferably formed of rubber and adapted to seat upon the upper surfaces of the flanges 7 and 13 of the rings 6 and 10 respectively. If found desirable the ring 10 may be an integral part of the cover as shown in Fig. 3, and the cover may be of the same diameter as the outer diameter of the flange 13, the cover itself thus forming a chamber similar to the chamber 14 for retaining the ring 15.

It will be noted that lugs 8 project outward a short distance beyond the flange 7 so that when the cover is put in place its flange 13 will rest upon the lugs and will be held seated thereon by the hooks 9 which are engaged with the lugs by a rotation of the cover. The internal diameter of the flange 13 is such that it will slip over the flange 7 easily making a loose or open joint therewith, and this joint is closed by the ring 15 which seats upon the flanges and is held seated by pressure within the receptacle caused by the heating of the receptacle and the forming of steam therein. Upon the cooling of the receptacle the ring 15 is free to lift and admit air thereto between the edges of said flanges, thus preventing the formation of a vacuum in the receptacle which would be liable to cause the vessel to collapse.

The rubber ring 15 is loosely mounted within the cover and may be quickly and easily removed upon the removal of the cover for cleaning. The chamber 14 or space above this ring is provided so that the steam pressure will be upon the upper flat side of the ring and will press the same firmly to its seat, the higher the pressure the more firmly the ring will be forced to its seat and when there is no internal pressure on the receptacle, said ring will lie loosely over the joint acting as a valve to permit the free ingress of air.

The pop valve is provided so that when the steam pressure reaches a predetermined amount, the valve will open automatically, and the cock 4 is provided so that the steam pressure may be let off at any time when it is desired to remove the cover. The hooks 9 are designed simply to hold the cover from

being blown off by the internal steam pressure and not to make a tight joint between the cover and receptacle. As soon as the internal pressure is relieved by means of the
5 cock 4 the cover may therefore be quickly and easily removed.

Having thus fully described my invention what I claim is:—

10 A device of the character described comprising a receptacle, an outwardly extending flange on the upper end of the receptacle having an upper surface forming a seat, a closure for the receptacle, a horizontally and inwardly extending flange on the lower end
15 of the closure having an upper surface form-

ing a seat, said flange extending in the horizontal plane of the flange on the receptacle with its inner edge adjacent to the outer edge of the flange and forming an open joint between, a ring freely movable within
20 the closure lying loosely upon said seats over said joint, and means for holding the cover upon the receptacle.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN C. BARTLETT.

Witnesses:

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