Feb. 6, 1923.

1,444,043

J. T. SLOCOMB.
STEAM PRESSURE COOKER.
FILED MAR. 8, 1921.

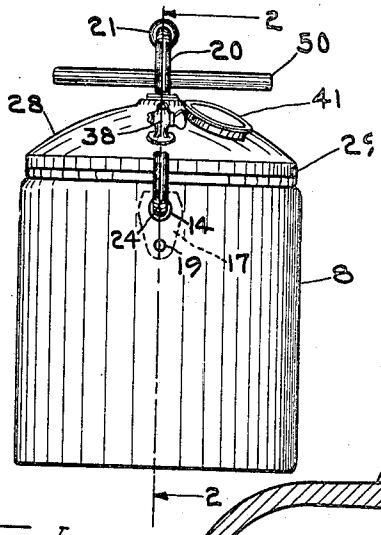


FIG. 1.

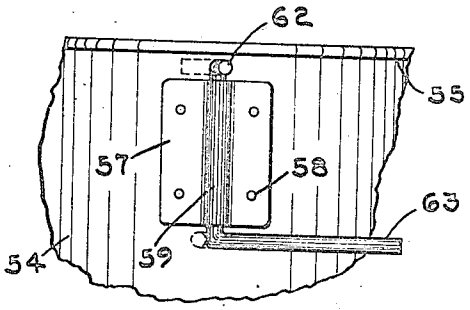


FIG. 3.

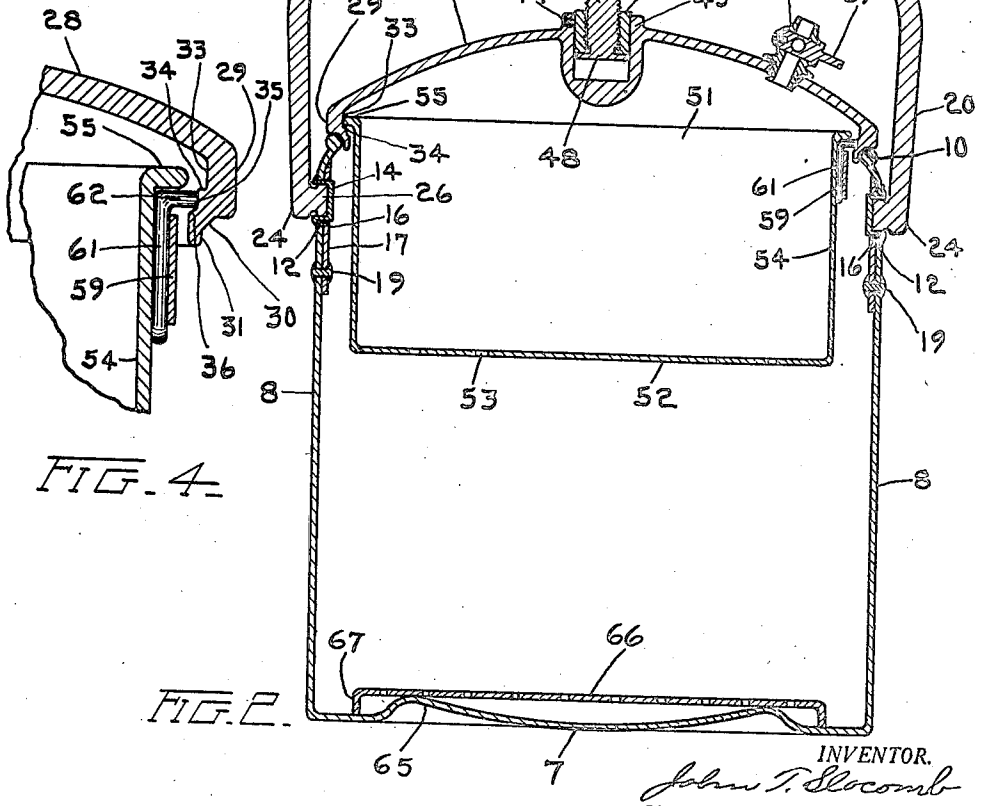


FIG. 4.

FIG. 2.

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UNITED STATES PATENT OFFICE.

JOHN T. SLOCOMB, OF PROVIDENCE, RHODE ISLAND.

STEAM-PRESSURE COOKER.

Application filed March 8, 1921. Serial No. 450,712.

To all whom it may concern:

Be it known that I, JOHN T. SLOCOMB, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Steam-Pressure Cookers, of which the following is a specification.

My invention relates to steam cooking vessels of the type in which the steam is not allowed to escape at a low temperature, commonly known as pressure steam cooking vessels. This invention is an improvement on the structure set forth in United States Patent No. 1,111,810 issued to me September 29, 1914.

The essential objects of my invention are to enable the facile introduction into the vessel of articles or receptacles of a maximum size; to increase the utilizable capacity of the vessel; to adapt the same for cooking articles of a varied character; to enable the use of an auxiliary or enclosed vessel notwithstanding the absence of supporting means in the inclosing vessel; to utilize a single cover for a plurality of vessels; to provide a novel cover attaching means; to insure an improved pivotal connection of the yoke; and to attain these ends in a simple structure.

To the above ends essentially my invention relates to such parts and combinations of parts as fall within the scope of the appended claims.

In the accompanying drawings which form a part of this specification

Figure 1 is a side elevation of my cooker showing a portion of the bail broken away,

Figure 2, an enlarged section of the same on line 2—2 of Figure 1,

Figure 3, an enlarged front elevation of a clamping member, and

Figure 4, an enlarged section of a portion of the cover and adjacent parts on line 2—2 of Figure 1.

Like reference characters indicate like parts throughout the views.

The outer or main vessel consists of a base 7, and a cylindrical side 8 terminating at its upper end in a flat annular seat 10. At diametrically opposite points near its top the side 8 is provided with circular openings 12 in which are seated cylindrical cups or sockets 14. Each socket cup extends through an opennig 16 in an oblong plate 17 attached to the inner surface of the side 8 by a rivet 19. Each cup is held fast to the plate 17 by brazing the adjacent parts.

A resilient yoke or bail 20 has its central portion preferably enlarged annularly as at 21 and provided with a cavity 22. Near each end the bail is inwardly directed as at 24 and has a cylindrical head 26 rotatably seated in its socket 14. The described pivotal mounting of the yoke is inexpensive to construct and avoids interfering surface projections.

The vessel is provided with a cover 28, in this case dome shaped, provided with a peripheral downwardly directed portion 29 having a bottom face 30 adapted to rest on the face 10 of the vessel, and a depending annular flange 31 adapted to slidably engage the inner face of the wall 8. The cover portion 29 has an upper internal annular recess 33 forming a resultant shoulder 34. Below the latter is an annular recess or groove 35 forming a resultant shoulder 36. In the cover is a valve casing 38 operated by a pet cock 39 constituting a safety valve. Adjacent the latter in the cover is a steam gauge 41. In the center of the cover is a socket or tubular post 43 vertically adjustable in which, by a screw 44, is a sleeve 45, having threaded engagement with a post 46 having a head 48 upon its lower end, and whose upper end is adapted to register in the cavity 22 of the bail. This post is vertically moved into and out of the cavity by turning a cross bar or lateral arms 50 fastened to an intermediate portion of the post.

A second or auxiliary vessel 51, comprising a bottom 52 having perforations 53, a side 54, and a rim 55, is detachably mounted on the cover 28 and depends within the outer vessel. The cover 28 serves for both vessels. The rim 55 registers loosely in the recess 33 and rests on the shoulder 34. The rim is maintained in its seat and released therefrom in this instance by a lever cam thus applied. An attaching plate 57 is fastened by rivets 58 or otherwise to the side of the vessel 51 adjacent the rim. A vertical bend 59 in the plate forms a retaining sleeve for a rod 61 rotatable therein having a cam finger 62 on its upper end, and an operating arm 63 upon its lower end. The finger and arm are disposed at right angles to the rod 61 and at approximately right

angles to each other. The cam finger when extended or in engaged position registers in the groove 35 and rests on the shoulder 36 in rigid engagement with the inner face of the cover portions 29. While in this position the arm 63 bears against the vessel side 54. By swinging the arm the cam finger is released and the vessel 51 thus detached.

It will be observed that the cam finger 62 is slightly radial in its relation to the arm 63 whereby the cam action of the finger is accentuated and the parts are more firmly locked against accidental release.

The base of the outer receptacle is provided with an annular series of elevations 65 upon which rests in this instance a perforated plate 66 having a depending flange 67. This removable plate is sometimes convenient as a support for a vessel containing an article to be cooked or for supporting the article itself below the inner receptacle. The plate may be omitted, however, and the article may be supported on the elevation 65.

Conveniences are afforded for the mounting of a second vessel upon the cover of the outer vessel. The means for attaching or detaching the inner vessel from the cover is simple and certain in action. The pivotal means for mounting the yoke is located within the plate of the outer vessel so that the inner interfering projections are present on the exterior of the vessel.

I claim—

1. In a steam cooking apparatus a steam confined receptacle, a cover resting on the receptacle provided with an internal recess, a second receptacle within the first receptacle provided with a rim seated in the recess, a shaft rotatably mounted on the second receptacle, a cam on the shaft engageable with the cover, and an operating arm on the shaft.

2. In a steam cooking apparatus, a steam confined receptacle, a cover resting on the receptacle provided with a recess, a second receptacle within the first receptacle provided with a rim surrounded by the cover, a shaft rotatably mounted on the second receptacle, a cam on the shaft registering in the cavity, and an operating arm on the shaft.

3. In a steam cooking apparatus, a steam confined receptacle, a cover resting on the receptacle provided with an internal recess, a post on the cover, a yoke on the receptacle engageable with the post, a second receptacle within the first receptacle provided with a rim seated in the recess, a shaft rotatably mounted on the second receptacle, a cam on the shaft engageable with the cover, and an operating arm on the shaft.

4. In a steam cooking apparatus, a steam confined receptacle, a cover on the receptacle, an internal shoulder on the cover, a second internal shoulder on the cover below the first shoulder, a post on the cover, a resilient yoke pivotally mounted on the cover engageable with the post, a receptacle enclosed by the first receptacle, a rim on the second receptacle resting on the first shoulder, and a lever cam pivotally mounted on the second receptacle engageable with the second shoulder.

In testimony whereof I have affixed my signature.

JOHN T. SLOCOMB.