July 15, 1924. 1,501,203

O. W. CROSSLEY

COOKER

Filed March 18, 1922

Fig. 4.

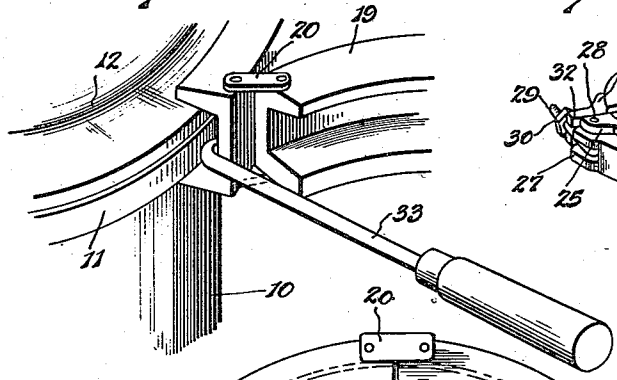
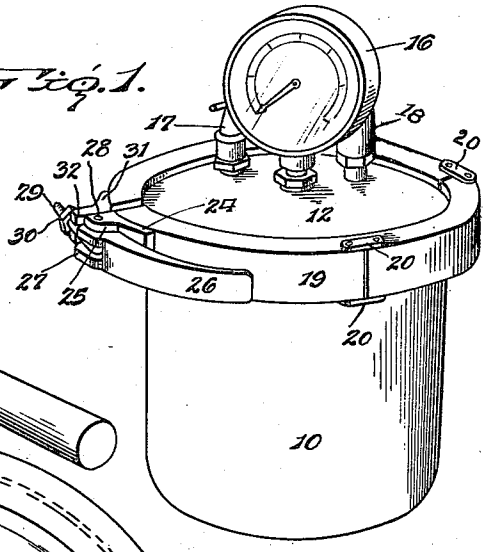


Fig. 1.



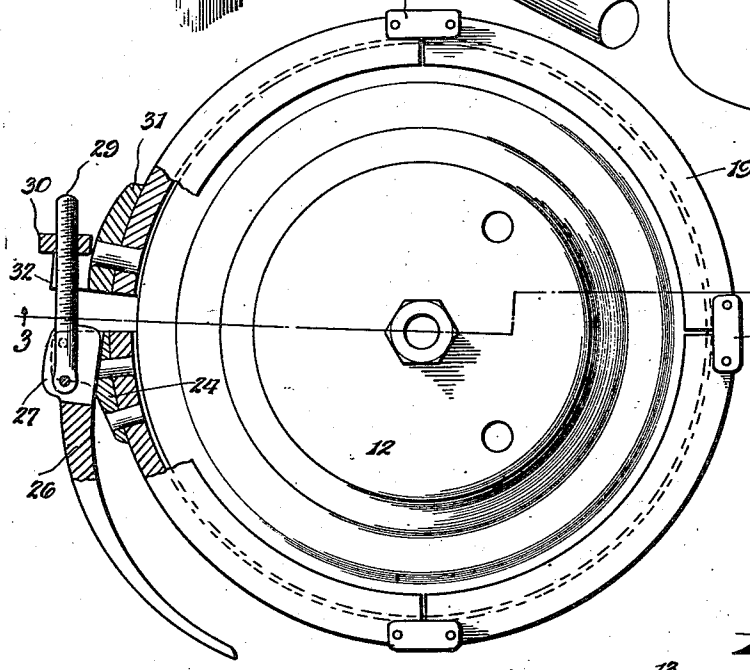
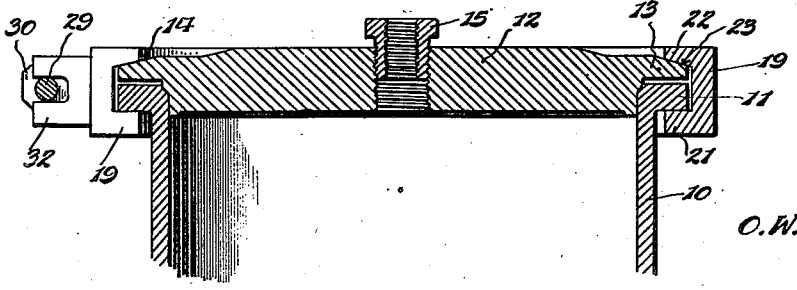


Fig. 2.

Fig. 3.



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By

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UNITED STATES PATENT OFFICE.

ORRIN WILKSAN CROSSLEY, OF OKLAHOMA CITY, OKLAHOMA.

COOKER.

Application filed March 18, 1922. Serial No. 544,857.

To all whom it may concern:

Be it known that I, ORRIN W. CROSSLEY, citizen of the United States, residing at Oklahoma City, in the county of Oklahoma and State of Oklahoma, have invented certain new and useful Improvements in Cookers, of which the following is a specification.

This invention relates to an improved steam cooker and seeks, as one of its principal objects, to provide a device of this character wherein the cover of the cooker may be readily applied or removed.

A further object of the invention is to provide a device wherein the cover of the cooker may be clamped and locked upon the cooker body at one operation.

And the invention has as a still further object to provide a cooker wherein the cover will be held by a single clamping ring acting to bind the cover substantially throughout its circumference upon the cooker body so that leakage will be eliminated and wherein the ring will be so constructed that said ring may be readily applied or removed.

Other and incidental objects will appear hereinafter.

In the drawings:

Figure 1 is a perspective view of my improved cooker.

Figure 2 is a plan view of the device, parts being broken away and shown in section.

Figure 3 is a fragmentary sectional view on the line 3—3 of Figure 2, looking in the direction of the arrows, and

Figure 4 is a fragmentary perspective view showing the manner in which the clamping ring for the cover of the cooker is removed.

In carrying the invention into effect, I employ a cooker body 10 provided at its upper end with an overhanging rim 11 having flat upper and lower faces. Removably fitting upon the cooker body is a cover 12 beveled to snugly fit within the body and provided at its periphery with a radial annular flange 13 overhanging the rim 11 of the body terminating flush therewith. The flange 13 is provided with a flat bottom face confronting the flat upper face of the rim while at its upper side said flange is formed with an annular beveled face 14. Threaded into a central opening in the cover is a bushing 15 to accommodate a gage, as conventionally illustrated at 16. The cover is also equipped with the customary fittings 17 and 18 respectively.

Removably securing the cover upon the cooker body is a clamping ring 19. As best shown in Figures 1 and 2, this ring is formed of a plurality of segmental sections pivotally connected at their ends by hinge plates or links 20 secured to the upper and lower sides of the ring and, as will now be observed, the ring is channel shaped in cross section to embrace the rim 11 and flange 13 of the cooker body 10 and cover 12, being provided with a bottom flange 21 to extend beneath the rim 11 and a top flange 22 to overlie the flange 13. As particularly brought out in Figure 3, the flange 21 of the ring is provided with a flat inner face to coact with the flat lower face of the rim while the flange 22 of the ring is provided with a beveled inner face 23 to seat flat against the beveled face 14 of the flange of the cover. Mounted upon the ring at one end thereof is an ear iron 24 having spaced ears 25 and mounted to swing between said ears is a longitudinally curved lever 26. At its inner end the lever is formed with spaced lugs 27 fitting between the ears of said ear iron and extending through said lugs and ears are suitable pivot pins 28 swingingly supporting the lever. Freely received at one end between the lugs 27 of the lever is a bolt 29 pivotally connected at its adjacent end to said lugs and adjustable upon the bolt is a nut 30. Mounted upon the clamping ring 19 at its opposite extremity is an ear iron 31 having spaced upstanding ears 32 adapted to freely accommodate the bolt 29 therebetween.

As will now be readily understood in view of the preceding description, the cover 12 may be applied when the clamping ring 19 may, as shown in Figures 2 and 3, be arranged about the cooker body to engage beneath the rim 11 thereof overhanging the cover. The bolt 29 is then positioned between the ears of the ear iron 31 when, by rocking the lever 26 inwardly, the nut 30 will be caused to coact with said ears for contracting the ring about the cover, the lever being movable, as shown in Figure 2, to a position locking the ring contracted. As the ring is contracted, the beveled face 23 of the flange 22 of said ring will be caused to coact with the beveled face 14 of the flange 13 of the cover for tightly clamping the cover upon the cooker body and, as will be perceived, the ring will act upon the flange of the cover substantially throughout the

circumference thereof so that leakage cannot occur. The nut 30 upon the bolt 29 of the lever provides, of course, means whereby the tension upon the ring, when contracted, may be varied. To remove the cover, the lever 26 is swung outwardly and the bolt 29 disengaged from the ear iron 31 when the clamping ring may be freed and to facilitate disengagement of the ring, I preferably provide a hook 33. As shown in detail in Figure 4, the hook is engaged beneath the free ends of the sections of the ring successively when, by rocking the hook against the rim 11 of the cooker body, the ring sections may be readily pried out of engagement with the cover and rim. It will accordingly be seen that I provide a cooker wherein the trouble incident to applying or removing the cover of the device will be reduced to a minimum while, at the same time, the cover may be firmly clamped in place to form a sealed joint between the cover and the cooker body.

Having thus described the invention, what is claimed as new is:

The combination of a cooker body provided with an outstanding annular rim having parallel upper and lower faces, of a cover constructed to fit snugly within the upper end of the body and having an annular flange with a beveled upper face and a lower face adapted to conform with the upper face of said rim, a channelled ring constructed in four sections, each of said sections having upper and lower annular ledges with their inner faces shaped to correspond respectively with the beveled upper face of said flange and the lower face of said rim, and a cylindrical wall rigidly connecting said two ledges and being integral therewith, links on top and bottom of said ledges respectively and having pivotal connection with the adjacent ends of some of said sections, and adjustable means for connecting the free ends of two of said sections; said means including brackets secured at said free ends of the ring sections, ears on said brackets, a lever pivoted between the ears of one of said brackets to swing in the plane of the ring, a pivot pin on said lever and a bolt pivoted thereon, and a nut threaded on said bolt and adapted to engage with the ears on said other bracket, whereby upon swinging said lever against the ring, the latter will be contracted to effect a sealed joint between the body and the cover.

In testimony whereof I affix my signature.

ORRIN WILKSAN CROSSLEY. [L. S.]