C. W. STERICK.

STEAM COOKER.

APPLICATION FILED MAY 9, 1906. RENEWED JULY 6, 1911.

1,004,099. Patented Sept. 26, 1911.

Fig. 1.

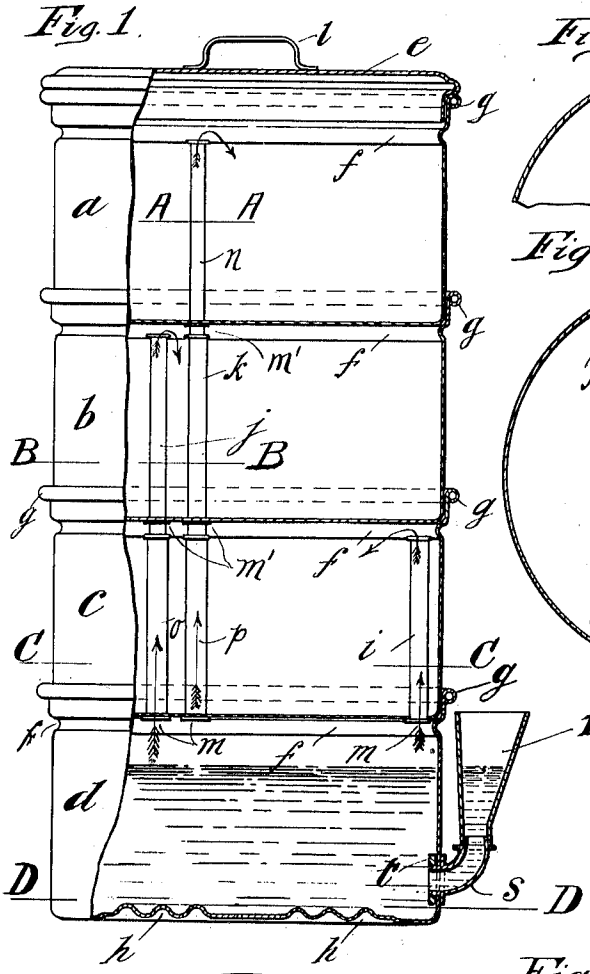


Fig. 2.

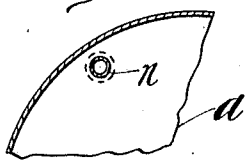


Fig. 3.

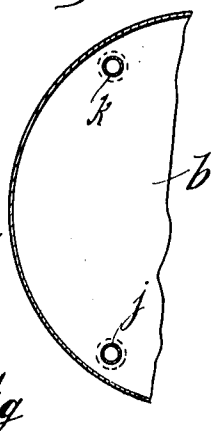


Fig. 6.

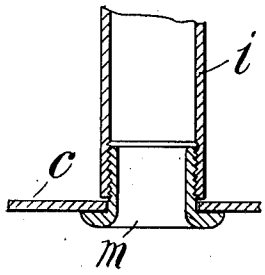


Fig. 7.

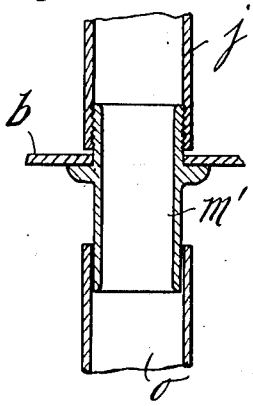


Fig. 4.

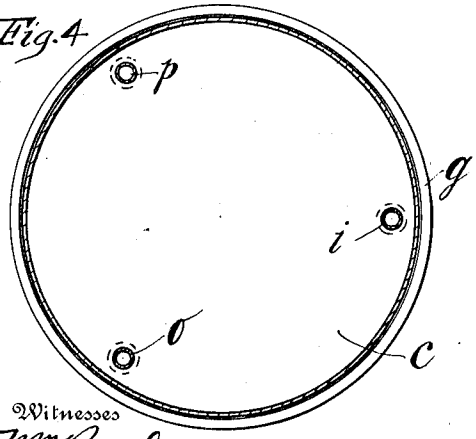
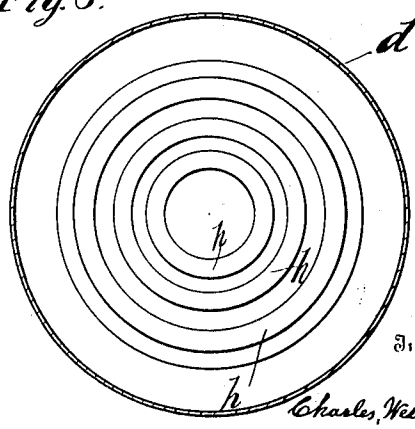


Fig. 5.



Witnesses

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Charles Wesley Sterick

UNITED STATES PATENT OFFICE.

CHARLES WESLEY STERICK, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO J. H. GAINER AND ONE-FOURTH TO F. A. THOMPSON AND JOHN SWAIL, OF BRIDGEPORT, ILLINOIS.

STEAM-COOKER.

1,004,099. Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed May 9, 1906, Serial No. 316,045. Renewed July 6, 1911. Serial No. 637,095.

To all whom it may concern:

Be it known that I, CHARLES WESLEY STERICK, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Steam-Cookers, of which the following is a specification.

My invention relates to a new and useful improvement in the forming, making and construction of a sectional steam cooker. The base or bottom section serves as a boiler to generate steam, from which each of the sections is supplied with steam direct, without passing into other sections. The bottom of the boiler is corrugated to increase the heating surface.

The object of my invention is to produce a steam cooker made of aluminum without resorting to soldering or casting (both of which are difficult and expensive) so that it can be made light and durable and each piece or part can be duplicated and with this end in view, I make the body, bottom, rim and walls out of one sheet of aluminum, and form a rim at the top of each section so that the bottom of above section telescopes in the rim of the section below.

The rim is formed by increasing the diameter of each section at top edge from about one-half inch below the top. In order that the bottom of each section may fit close and neat, I form a bead by pressing the metal creased inwardly about one-sixteenth of an inch, which serves as a stop to prevent the sections telescoping beyond a predetermined point and provides a support for the bottom to rest on and at the same time strengthens the sections of the cooker.

I form the tubes of one piece which are screwed into a bushing having a bottom flange to level and strengthen the bottom of the tubing—the thread in the bushing and in the tube provide a steam tight joint.

In order that others skilled in the art to which my invention relates may understand how to make and use the same the construction and operation will be described in detail referring to the accompanying drawings forming a part of this specification, in which—

Figure 1 is a vertical section and elevation of my steam cooker showing the boiler and sections in their proper places—*a*—*b*—*c*— being sections to place the food in to be cooked, *d* being the boiler to generate the steam in; Fig. 2 is a sectional plan of cooker as through the line A—A; Fig. 3 is a sectional plan of cooker through line B—B; Fig. 4 is a sectional plan of cooker *c* through line C—C; Fig. 5 is a sectional plane of boiler through line D—D, showing circular corrugations formed in bottom of boiler *c;* Figs. 6 and 7 show the methods for securing and connecting the steam tubes in sections *a*—*b*—*c*.

Similar letters refer to similar parts throughout the views.

The boiler *d* is provided with an inlet having a bushing *t*. *r* is a funnel shaped tube secured in the bushing in inlet for the purpose of refilling the boiler with water.

The upper edges of sections *a*, *b*, *c* and *d* are enlarged and provided with inwardly formed beads, the enlarged upper edge of each section being made so that the bottom of each section above may be set in another section and be supported level on the bead *f*.

g is a strengthening rim formed at the upper edge of each section. Vertical steam tubes *o*, *p*, *i* are fitted in section *c*, the upper ends of same being about one-half inch below the bottom of section *b*, the lower ends of the tubes *o*, *p* and *i* being fitted in bushings *m*—indicated in Figs. 1 and 6. Steam tubes *j* and *k* in section *b* and steam tubes *n* in section *a* are similar in height to the above described tubes *o*, *p*, *i*, and are secured to the bottom of the respective sections by screwing into a bushing or socket *m'* shown in Figs. 1 and 7.

It will be noted that a projection is formed on the bottom of bushing *m'*. This projection is arranged to slide within the tubes in the sections below and form separate steam connections into the other sections.

e is a cover having a rim and top formed of one piece of aluminum and is adapted to fit any of the sections.

It will be noticed that the steam flowing through tube *i* will flow into section *c* only; steam flowing through tubes *o* and *j* will pass into section *b* only; while steam flowing through tubes *p*, *k*, *n* will flow in section *a* only, whereby each cooker will have its own supply of steam.

Steam tubes *n*, *j*, *k*, *o*, *p*, *i*, in sections *a*, *b* and *c* are all screwed into bushings *m m'* and are adjustable and can be removed when

desired—for refurnishing or cleaning. It will thus be seen that all parts are adjustable. I do not confine myself to number of sections or number of tubes.

What I claim is:

1. A sectionalized steam cooker comprising a bottom section consisting of a single piece of sheet metal formed into a vessel having a cylindrical side wall and a bottom integrally connected therewith, the side wall of which is provided with an internal rib extending entirely around the vessel adjacent the top edge thereof and with an outwardly rolled bead at the top edge, said side wall having an opening adjacent the bottom of the vessel and below the water level in the latter, a filling tube inserted in the opening, and means for clamping the tube in position on the vessel; a second section made of a single piece of sheet metal and formed into a vessel adapted to fit in and contact with the internal surface of the bottom section to form a substantially vapor-tight joint and resting on the internal rib thereof to be supported by the latter and preventing the escape of vapor around the rib, the side wall of the second section being provided with an internal rib adjacent its top and an outwardly rolled bead above the rim, the bottom of the second section being provided with openings, bushings inserted through the openings and having peripheral flanges bearing on the under side of the said bottom, and tubes in the second section and of less height than the latter and removably secured by screwing on the bushings, said tubes serving to prevent the bushings from dropping out of the openings; a top section similar in construction to the second section and having an opening in its bottom, a bushing in the opening and having a portion extending upwardly into the top section and another portion extending downwardly into the second section to extend into one of the tubes of the latter, and a tube in the top section and secured in position by screwing on the bushing of the latter; and a cover fitted to the top section.

2. In a sectionalized cooker, the combination of a bottom section consisting of a single piece of sheet aluminum formed into a vessel having an imperforate bottom and a side wall provided with a perforation, an elbow having one end inserted in the perforation, means on the elbow for clamping the latter to the said side wall, a filling device removably fitted on the elbow, the side wall being provided with an internal annular rib and an external annular bead at the top edge and adjacent the rib; a second section consisting of a single piece of sheet aluminum shaped into a vessel having its side wall provided with an external annular bead at its top edge and an internal rib below the bead, the bottom of the second section being provided with an opening, a bushing having an annular flange at its lower end bearing against the under surface of the bottom and threaded above the flange, the threaded end of the bushing being inserted in the opening of the said bottom, and a tube of larger diameter than the perforations in the said bottom and screwed on the threaded portion of the bushing and removably held in upright position solely by the bushing; and a removable cover on the second section.

3. A sectionalized cooker comprising a plurality of superimposed sections, each consisting of a single piece of sheet aluminum formed with a bottom and a cylindrical wall, each cylindrical wall having an inwardly-pressed annular bead at a point adjacent the top edge and having its top edge formed into an outwardly-bent annular rim, the lower ends of the sections other than the lowermost one being telescoped in the section next below the same and resting on the internal bead thereof to form a steam-tight joint, the second section having openings in its bottom arranged equi-distant from the center of the second section and spaced 120° apart, bushings in the openings, pipes on the bushings, the third sections having bushings in its bottom arranged 120° apart to enter two of the pipes in the second section, pipes in the third section secured to the bushing the uppermost section having an opening in its bottom disposed in line with one of the pipes of the second section, a bushing in the opening of the uppermost section and extending downwardly into the upper end of one of the said tubes, a tube secured to the last-mentioned bushing, and a cover for the uppermost section.

In testimony whereof, I have hereunto affixed my signature in presence of two subscribing witnesses.

CHARLES WESLEY STERICK.

Witnesses:
CHARLES HEBDING,
CARRIE SPELDING.