

(No Model.)

C. W. STERICK.
STEAM COOKER.

No. 464,834.

Patented Dec. 8, 1891.

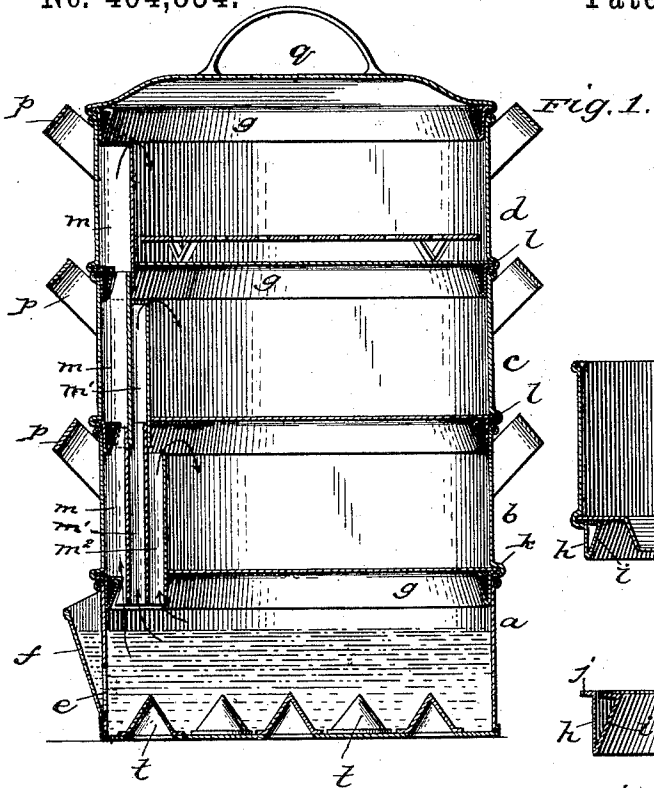


FIG. 3.

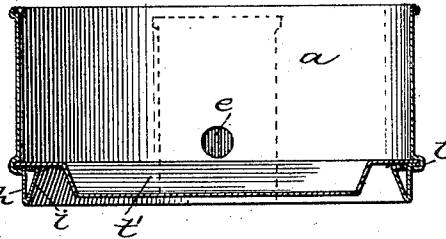


FIG. 4.

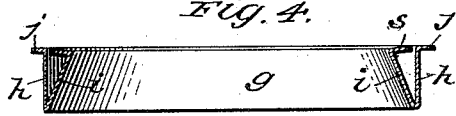


FIG. 2.

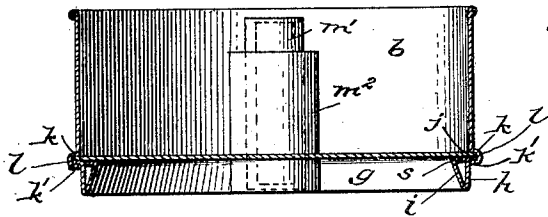


FIG. 5.

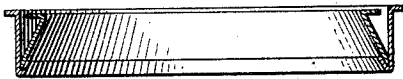


FIG. 6.

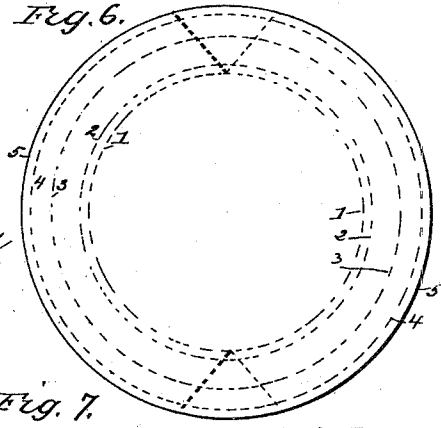
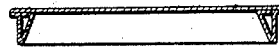


FIG. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

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STEAM-COOKER.

SPECIFICATION forming part of Letters Patent No. 464,834, dated December 8, 1891.

Application filed August 20, 1891. Serial No. 403,233. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WESLEY STERICK, a citizen of the United States, residing at De Soto, in the county of Jefferson and State of Missouri, have invented certain new and useful Improvements in Steam-Cookers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an improvement in that class of steam-cookers wherein a base or boiler is used to generate the steam and separate superimposed steam vessels or sections connected to said boiler by tubes for the passage of steam from said boiler to the sections, the articles to be cooked being placed in these latter sections.

The object of the invention is to provide a device of simple construction wherein the maximum amount of space in each superimposed vessel may be used for cooking purposes, and to provide for the passage of the steam from the boiler to each of the said vessels, as will more fully hereinafter appear. The invention consists in the novel combination and arrangement of parts, as will be more fully herein described, and particularly pointed out in the claims appended.

The advantages and operation of my device will be understood and appreciated from the following when taken in connection with the accompanying drawings, in which—

Figure 1 is a vertical sectional view of my device. Fig. 2 is a vertical sectional view of one section of my cooker. Fig. 3 is a vertical sectional view of a modification of the base or water section. Fig. 4 is a sectional view of the depending rim. Fig. 5 is a sectional view of a modification of the rim. Fig. 6 is a diagram of a blank, showing the manner in which the bottom and depending flanges of the vessels may be made of a single piece of metal; and Fig. 7 is a section of a bottom and depending flange of this latter construction. Similar letters of reference indicate corresponding parts throughout the several views.

In the drawings, *a* designates the base or water section, and *b c d* the superimposed steam-sections. The water-section is provided with an inlet *e* and the spout *f*, whereby it may be readily filled with water when de-

sired without removing the superimposed cooking receptacles. This water-section is also provided with a series of circular openings through its bottom, each opening being covered by a hollow sheet-metal cone *t*, projecting into said section and secured to the bottom around the edge of the opening, thereby greatly increasing the amount of surface exposed to the action of the heat, and, as is manifest, producing steam much more quickly than could be done with a smooth bottom. The sections are fitted into each other by means of a rim or depending flange *g* at the lower edge of each section, said rim or flange being slightly smaller in diameter to fit the internal diameter of the sections. The rims *g* serve as bases or supports for the cooking-sections when they are separated, and they are each formed of the vertical outer wall *h*, the inwardly and upwardly inclined wall *i*, extending from the lower edge of the vertical wall *h*, and the horizontal flange *s*, formed integrally with and extending outwardly from the upper edge of the inner wall *i*, as shown most clearly in Fig. 4. One of these supporting rims or flanges *g* is secured to the lower end of each of the sections, together with the bottom of same, by bending the lower edge of the side of the section outwardly, as shown at *k*, then turning under the bent-out end, as at *k'*, forming the radial flange *l*. The outer edge of the bottom and the outwardly-extending flange *j* of the rim *g* are clamped between the upper and lower portions of the said flange *l*, making a very strong and durable joint. The horizontal flange *s* is forced against the bottom of the section and the upper end of the vertical wall of the rim, strongly bracing the rim and bottom and preventing the rim being dented or forced out of shape under ordinary conditions, thereby insuring a tight fit between the sections. The sections are prevented from telescoping or sliding too far into each other by the flanges *l*, which rest upon the upper edges of the sections, as shown.

To the inner sides of the cooking-receptacles or steam-sections I secure curved plates, which project slightly below the bottoms of said sections and are secured at their longitudinal edges to the sides of the sections, forming with

said section semi-cylindrical tubes. In the lower section *b* are three of these curved plates *m m' m''*, contained one within the other, the outer one *m''* terminating a short distance below the upper ends of the inner ones *m m'*, for a purpose that will presently appear. In the section *c* are two similarly-curved plates *m m'*, contained one within the other, whose lower ends fit over the upper ends of the plates *m m'* of section *b* below, the outer plate *m'* of section *c* terminating slightly below the upper end of plate *m* of the same section. In the section *d* I secure the plate *m*, whose lower end fits the upper end of plate *m* of section *c* below, forming with said plate and plate *m* of section *b* a continuous tube for the passage of steam from the water-section to section *d*. The tubes *m' m''* form a continuous tube for the passage of steam from the water-section to the section *c*. In like manner steam from the water-section is admitted to section *b* through tube *m''*. Each section is provided with handles *p p*, and the upper section *d* is provided with a cover *q*. This cover *q* will fit any of the receptacles, and, as is manifest, any number of the sections may be used and the cover placed on the uppermost one.

In Fig. 3 of the drawings I have shown a modification of the boiler-section, said modification having a series of depending corrugations *t* in its bottom for a similar purpose as the upwardly-extending hollow cones shown in Fig. 1. This is to give greater heating-surface to the bottom.

In Fig. 6 of the drawings is shown a diagram of a blank from which the bottom of the cooking-vessel and rim *g* may be stamped in a single piece. In this construction the depending rim is formed by bending under the part of the blank between the dotted lines 1 and 2, then bending down the part between lines 2 and 3 to form the vertical wall of the rim. The horizontal flange *s* is then formed by bending inwardly at right angles to the main body of the metal the part of the blank between the dotted lines 4 and 5, and the rim is completed by bending upwardly and inwardly the part between the dotted lines 3 and 4 to form the inclined wall *i* of the rim. This construction makes a very strong and durable rim. If found necessary, V-shaped recesses may be formed in the outer edge of the blank at diametrically-opposite points, as shown by dotted lines in Fig. 6, to permit of the turning under of the outer edge of the blank.

In Fig. 5 I have shown the rim *g* formed of two pieces, the lower end of the vertical wall being turned inwardly and upwardly over the lower edge of the inclined wall and soldered, as shown. This construction may be preferred in some instances to the ones described in the foregoing.

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

1. A steam-cooker consisting of a boiler, a series of superimposed cooking-vessels, a series of sectional semi-cylindrical tubes contained one within the other, said tubes being secured to the sides of the cooking-vessels and connecting said vessels to the boiler, and means for filling the boiler when desired, substantially as and for the purpose set forth.

2. A steam-cooker consisting of a boiler, a series of superimposed cooking-vessels, a series of sectional semi-cylindrical tubes contained one within the other and secured to the sides of the receptacles, thereby connecting the receptacles to the boiler, a series of hollow cones or projections in the bottom of the boiler, and a spout and opening in the side of the boiler for filling said boiler with water when desired, for the purposes set forth.

3. A steam-cooker consisting of a boiler, a series of superimposed cooking-vessels, a series of semi-cylindrical tubes contained one within the other and secured to the side of the cooking-vessels, connecting each receptacle to the boiler, and an annular depending rim secured to the bottom of each receptacle for fitting the sections together, said rim consisting of a radial flange *j*, a downwardly-extending vertical side *h*, an upwardly and inwardly inclined portion *i*, and the outwardly-extending horizontal portion *s*, substantially as and for the purposes set forth.

4. A circular vessel provided with a bottom, said bottom being secured to the vessel by clamping the lower end of the latter over upon its edges, and a depending flange *g*, consisting of the outer wall *h* and inner inclined wall *i*, having outwardly-projecting flanges, the outer flange being clamped between the bottom and flanged end of the vessel, substantially as described.

5. The combination of the boiler-section *a*, the superimposed steam-section *b c d*, fitted one within the other and provided with bottoms, the open-ended semi-cylindrical tubes *m m' m''*, secured to the interior of the section *b*, one within the other and all communicating with the boiler, the outer one terminating below the bottom of the section next above, open-ended semi-cylindrical tubes *m m'*, secured one within the other on the interior of the section *c*, the lower ends of both these tubes extending through the bottom of the section and embracing the upper ends of the lower tubes *m m'*, and an open-ended tube *m*, secured on the interior of the uppermost section *d* and communicating with the tube *m* of the section below, substantially as described.

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

CHARLES W. STERICK.

Witnesses:

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EDMUND G. BONNEY.