

L. E. DANIELS.
STEAM COOKER.
APPLICATION FILED OCT. 19, 1909.

966,661.

Patented Aug. 9, 1910.

2 SHEETS—SHEET 1.

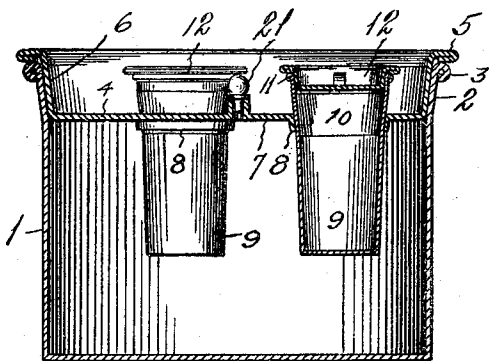


Fig. 1.

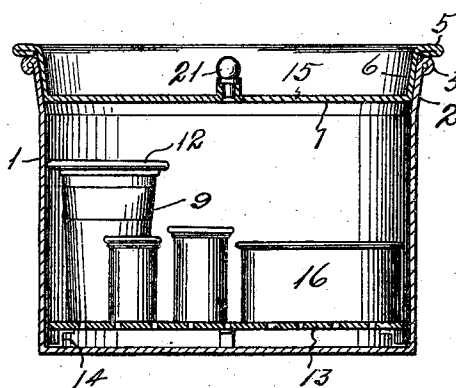


Fig. 4.

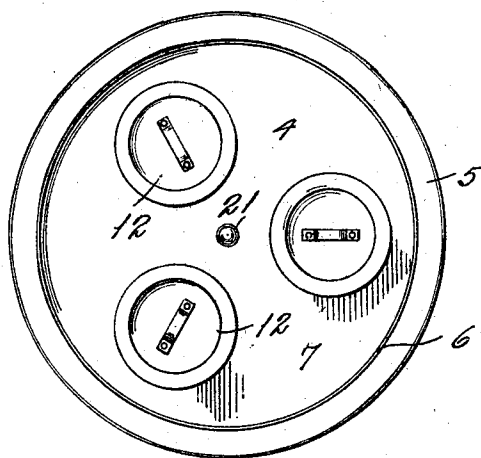


Fig. 2.

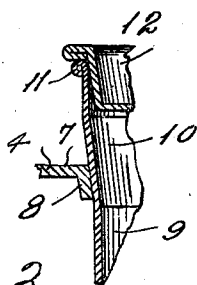


Fig. 3.

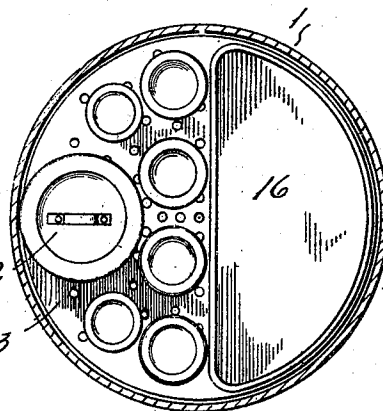


Fig. 5.

WITNESSES:
E. C. Davis
L. E. Noack.

INVENTOR
Laura E. Daniels

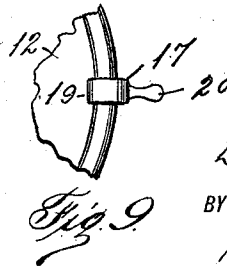
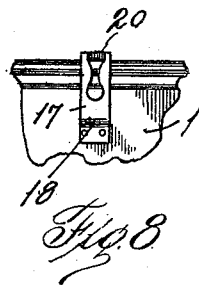
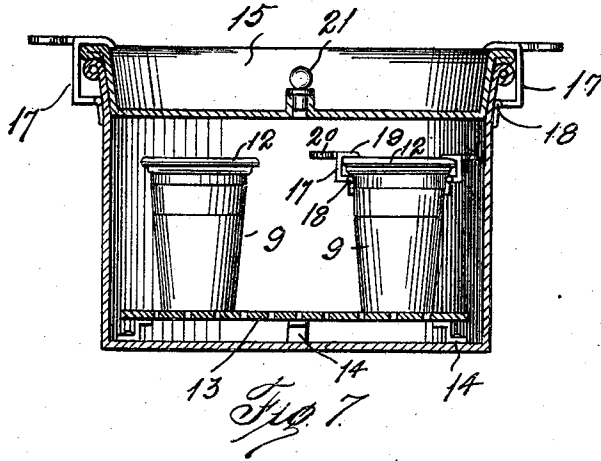
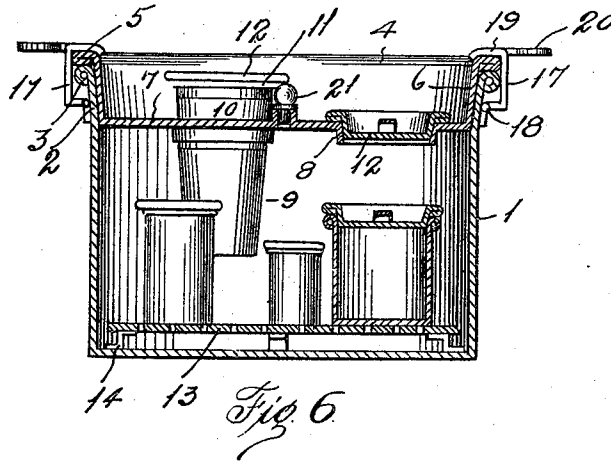
BY *Shelby Davis*
ATTORNEY'S

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2 SHEETS—SHEET 2.



WITNESSES
E. C. Davis Jr.
L. E. Noack

INVENTOR
Laura E. Daniels.
BY *E. C. Davis Jr.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

LAURA EUGENIA DANIELS, OF FORT WORTH, TEXAS.

STEAM-COOKER.

966,661.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed October 19, 1909. Serial No. 523,401.

To all whom it may concern:

Be it known that I, LAURA E. DANIELS, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Steam-Cookers, of which the following is a specification.

My invention relates to new and useful improvements in steam cookers.

Primarily the object of the invention is to improve a steam cooker set forth in Letters Patent granted to me November 20th, 1906, and numbered 836,098 and August 25th, 1908, and numbered 896,898.

The novel features and particular improvements will be hereinafter fully pointed out.

With the above and other objects in view, the invention has relation to certain novel features of construction and operation, an example of which is described in this specification and illustrated in the accompanying drawings wherein:

Figure 1 is a vertical section of the cooker, Fig. 2 is a plan view, Fig. 3 is a detail in section of one of the receptacles and the co-acting cover, Fig. 4 is a vertical section showing a modified form of the cover and a different arrangement of receptacles, Fig. 5 is a horizontal sectional view of the same, Fig. 6 is a vertical section of the style of cooker shown in Fig. 1 and provided with cover clamps, Fig. 7 is a vertical section of the form shown in Fig. 4 and provided with cover clamps, Fig. 8 is a detail of one of the cover clamps in elevation, and Fig. 9 is a detail of the same in plan.

In the drawings the numeral 1 designates a boiler or jacket. This boiler is formed of thin metal and is spun, stamped or pressed into shape so as to be formed without seams or sharp angles and to be light in weight to permit easy handling. At its upper end the boiler is flared or swelled outward at 2 and terminates in an outwardly directed annular rolled bead 3. A counter sunk cover 4 fits snugly into the flared portion 2 of the boiler and is provided with a lateral flange 5 projecting over the bead 3. This cover is formed like the boiler and also of thin metal, having no seam or sharp angle. The sides 6 of the cover are flared upwardly and outward at substantially the same angle as the walls of the flared portion 2 so as to lie firmly in contact therewith and thus form a

steam-tight joint. The frictional engagement of the cover with the boiler is sufficient under ordinary conditions to hold the former in place. The cover is formed with a horizontal bottom 7 in which a plurality of openings surrounded by depending flanges 8, are provided. Each of these flanges is inclined downward as shown in Figs. 1 and 3, to support a food receptacle 9. The food receptacles are each formed from a single piece of thin metal and without seams. The greater portion of each receptacle is gradually flared upward to a point where it is swelled at a greater angle as indicated at 10. Above this swelled portion the walls of the receptacle are straight terminating in an outwardly directed annular rolled bead 11. In the upper end of each receptacle a counter sunk lid 12 is adapted to fit snugly so as to form a steam-tight joint. The side walls of each lid, the swelled portions 10 and the flanges 8 are all inclined at substantially the same angle, so that each receptacle will have a tendency to wedge in its respective flange 8 and produce a steam-tight joint, while the diameter of the lid of each receptacle is such as to cause the lid to wedge in the flange when the receptacle is removed and the lid placed in the flange to close the opening and form a steam-tight joint.

I desire to call particular attention to the formation of the boiler 1, cover 4, lids 12 and receptacles 9. In each case the bottom is formed integral with the sides, the intersection being slightly rounded to avoid a sharp angle and facilitate the formation of the part, at the same time producing a more sanitary construction as sharp angles are difficult to clean. Another feature of construction of great importance is the absence of seams which would prevent the forming of steam-tight joints. Another point to be observed is that where ever a steam-tight joint is formed in this invention the contacting surfaces are broad so as to give a long bearing and the parts so shaped as to wedge.

The cooker can either be used as shown in Figs. 1 and 2 or as shown in Fig. 6. As shown in Fig. 6, one or more of the receptacles 9 are removed and the opening in the cover 4 closed by fitting the lid of the receptacle in the flange 8. This leaves one or more receptacles suspended from the cover, while within the boiler a perforated support

13 is removably placed. The support is provided with short legs 14 which elevate it a short distance above the bottom of the boiler. Various pans, pots and receptacles either
 5 open or closed may be placed on the support and different kinds of foods, meats and game cooked. The contents of the suspended receptacle may be inspected by removing its lid and without disturbing the receptacles within the boiler; while the receptacles
 10 within the boiler may be inspected by removing the lid from the flange 8 of the cover and without disturbing the suspended receptacles. By this arrangement more vessels
 15 may be used with the cooker.

In Figs. 4, 5 and 7 the receptacles and vessels are all placed on the support 13 within the boiler and a counter-sunk cover
 20 15 like the cover 4 with the exception of the flanged openings fitted on the boiler. In this form it is shown how a large vessel 16 can be placed on the support and leave sufficient room for numerous other vessels and receptacles.

25 Where it is desired to use steam at a comparatively high pressure, it is necessary to fasten the covers in place and if desired the lids of the receptacles and vessels may also be fastened. Various kinds of fastening devices may be used and while I have shown
 30 a particular form in the drawings I do not wish to limit my invention to the same. The fastening shown in the drawing comprises clamps 17, attached to opposite sides of the
 35 boiler or vessels. At its lower end each clamp is hinged at 18 and provided at its upper end with a lug 19 projecting one way and thumb piece 20 extending in the opposite direction. When the clamps are swung
 40 up the lugs 19 engage over the flange of the lid or cover which is resilient enough to hold the part in place. A fastening of this character is simple and efficient and at the same time being attached to the boiler or
 45 vessel can not be lost.

A steam cooker constructed in accordance with the invention herein set forth not only will be strong, durable and efficient, but sanitary and capable of many uses. It will
 50 further be compact and convenient and having comparatively few parts will not be likely to get out of working order.

In each of the covers a relief valve 21 is placed for the purpose of relieving the pressure of steam if the same should reach the danger point.

What I claim is:

1. The combination in a steam cooker, of a cylindrical boiler having its upper end
 60 inclined outward at an angle to the body, a counter-sunk cover having an upwardly and outwardly inclined side wall parallel to the inclined portion of the body and frictionally engaging therein, the counter-sunk cover

having a plurality of openings and provided
 65 with down turned portions at the openings forming inwardly sloping flanges, a plurality of food receptacles, each having a swelled portion near its upper end inclined outwardly directly from the body of the
 70 receptacle, the inclined swelled portion of each receptacle being parallel to the inclined flange of the cover and frictionally engaging therein, a counter-sunk cover frictionally engaging in each food receptacle above the
 75 swelled portion, and means for fastening the counter-sunk cover of the boiler to the boiler, the counter-sunk cover of each receptacle having a diameter whereby it may be frictionally engaged in the flanges of any of the
 80 openings of the first named cover.

2. The combination in a steam cooker, of a cylindrical boiler, a counter-sunk cover fitting in the boiler and having a plurality of openings each surrounded by a depending
 85 inwardly sloped flange formed integral with the cover, a food receptacle fitting in each opening, each receptacle having a swelled portion below its upper end inclined acutely and directly from the body of the receptacle
 90 and frictionally engaging in the inclined flange of one of the openings, the portion of the food receptacle above the swelled portion having a vertical wall, and a counter-sunk lid frictionally engaging in the vertical
 95 wall portion of each food receptacle.

3. The combination in a steam cooker, of a cylindrical boiler, a counter-sunk cover fitting in the boiler and having a plurality of openings each surrounded by a depending
 100 inwardly sloped flange formed integral with the cover, a food receptacle fitting in each opening, each receptacle having a swelled portion below its upper end inclined acutely and directly from the body of the receptacle
 105 and frictionally engaging in the inclined flange of one of the openings, the portion of the food receptacle above the swelled portion having a vertical wall, a counter-sunk lid frictionally engaging in the vertical wall
 110 portion of each food receptacle, and each lid having a diameter whereby it may be frictionally engaged in one of the flanges surrounding the openings of the cover.

4. In a steam cooker, a cylindrical boiler
 115 body having an outwardly directed conical portion at its upper end, a counter-sunk cover provided with an outwardly directed conical portion having its wall parallel with the wall of the conical portion of the boiler
 120 body and frictionally engaging therein to form substantially a steam-tight joint, a lateral flange extending outward from the conical portion of the cover and resting on the upper edge of the conical portion of the
 125 boiler body, and opposed fastening devices, each comprising an upwardly extending clamp hinged at its lower end to the boiler

body and provided at its upper end with an
inturned lug frictionally engaging the flange
of the cover and also with a thumb piece
directed outward from the lug, the cover
5 having a plurality of flanged openings in
the bottom of its cover adapted to receive
food receptacles.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

LAURA EUGENIA DANIELS.

Witnesses:

A. C. JONES,

L. F. SENSABAUGH.