

(No Model.)

G. H. GRODHAUS.
STEAM COOKER.

No. 470,562.

Patented Mar. 8, 1892.

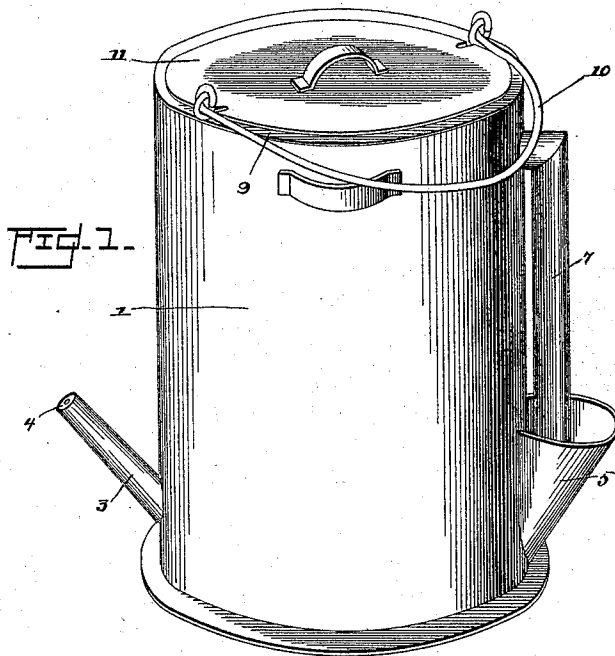
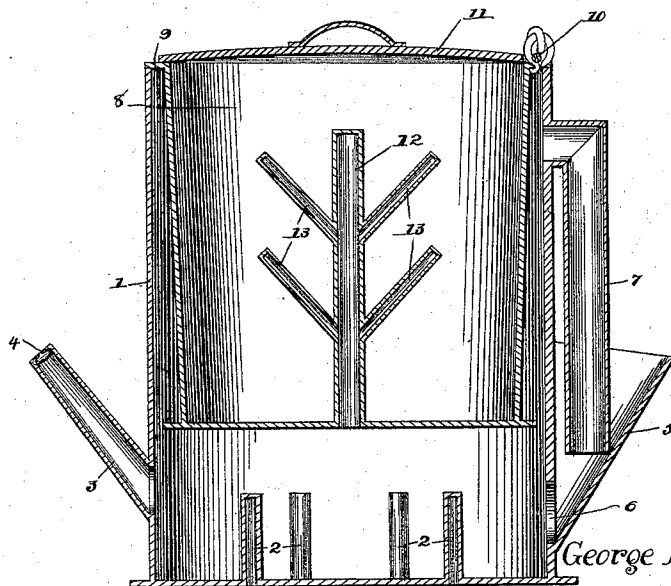


FIG. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE H. GRODHAUS, OF CAMERON, OHIO.

STEAM-COOKER.

SPECIFICATION forming part of Letters Patent No. 470,562, dated March 8, 1892.

Application filed January 21, 1891. Serial No. 373,585. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. GRODHAUS, a citizen of the United States, residing at Cameron, in the county of Monroe and State of Ohio, have invented a new and useful Steam-Cooker, of which the following is a specification.

This invention relates to improvements in steam-cookers for extracting the moisture from fruit, butter, &c., the objects in view being to provide a cheap serviceable device for the above purpose, and one so constructed as to avoid the necessity of stirring or agitation and which will retain the aroma of the article being evaporated.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a perspective of an evaporator constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section.

Like numerals of reference indicate like parts in both the figures of the drawings.

1 designates the outer boiler or vessel, provided with suitable bails or ears by which it may be lifted to and from the stove. The bottom of the boiler is provided with a series of inwardly-disposed fire-tubes 2, closed at their upper ends and open at their lower ends, and at one side of the boiler, a short distance above the bottom, or what would be the low-water mark, I locate a pipe 3, in which is inserted a whistle 4, by which an alarm may be sounded when the low-water mark is reached by the water as it evaporates in the boiler. At the opposite side of the boiler there is located a pocket 5, communicating with the interior of the boiler by an opening 6, formed in the wall of the boiler. From a point near the upper end of the boiler 1, and vertically above the pocket 5, there depends from an opening in the wall of the boiler a return-pipe 7.

8 designates the inner cylinder, which is smaller than the boiler 1 and is provided at its upper edge with an encircling flange 9, which rests upon the upper edge of the boiler 1, whereby said cylinder is supported within the boiler, and a space is formed under and

around the same. The cylinder is lifted from the boiler by means of a bail 10, which may be readily grasped by hand, and a cover 11 serves to close the upper end of the same. From the bottom of the cylinder 8 there extends upwardly an internal steam-pipe 12, from which radiates a series of branches 13, the ends of which and the main pipe are closed to prevent the escape of steam.

In operation the article to be steamed is placed in the cylinder 8, which is mounted in the boiler 1, and the latter placed over the stove and filled to a suitable height with water. The particular construction of boiler facilitates a quick and thorough heating of the water, from which steam is generated, rises to the top of the boiler, encircling the cylinder 8, and passes out and down through the upper end of the pipe 7 back into the pocket 5, and drips from the same as condensed through the opening 6 back into the boiler.

A steam-cooker thus constructed embodies superior points of advantage in the matter of quick evaporation, while at the same time the aroma of the article is preserved, and the entire device is of cheap and simple construction.

The salient feature of this invention resides in the use of a series of branch pipes radiating from the main steam-pipe, so as to distribute the steam more evenly throughout the vessel. It will be seen that the lateral branch pipes 13 communicate with and extend upward in an inclined line from the pipe 12. By this means as the steam condenses in the branch pipes it runs back into the main pipe and is not permitted to collect in the branch pipes.

Having described my invention, what I claim is—

In a steam-cooker, the combination, with a kettle or boiler having near its bottom the perforation 6 and flared lip 5 and its bottom provided with a series of tubes 2, open at their lower ends and closed at their upper ends, of the vessel 8, having the flange 9 mounted upon the upper edge of the boiler and serving to support the same within the kettle or boiler, the pipe 12, open at its lower end and closed at its upper end and extending upwardly from the bottom of the said internal vessel, the lat-

5 eral branch pipes 13, communicating with and
extending upwardly in an inclined manner
from the pipe 12 and closed at their outer
ends, the lid removably mounted on the ves-
sel, and the pipe 7, communicating with the
upper portion of the boiler and terminating
immediately above the lip 5, substantially as
specified.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in the
presence of two witnesses.

GEORGE H. GRODHAUS.

Witnesses:

MICHAEL BOUGHNER,
REASON VAN LAW.