

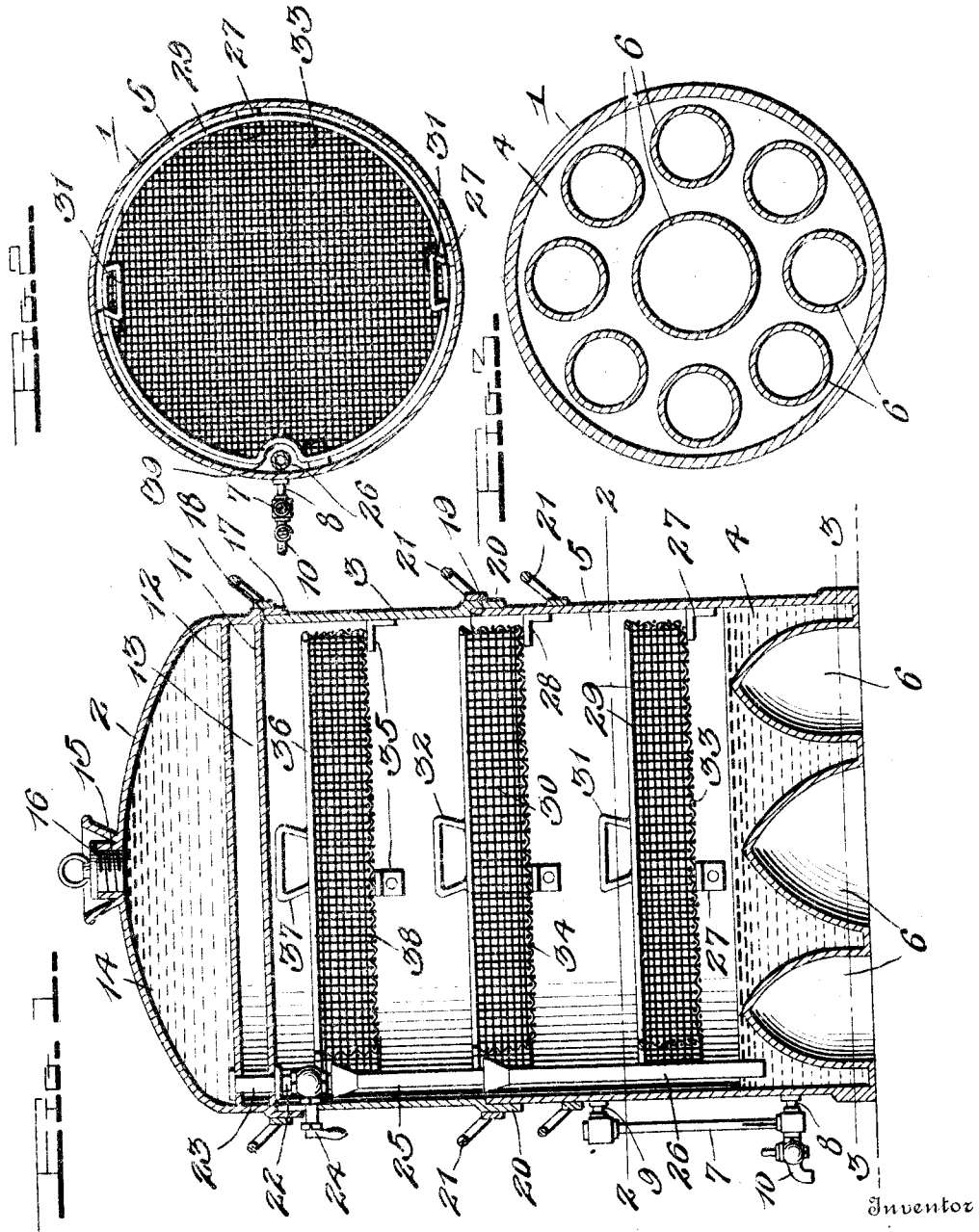
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STEAM COOKER.

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1,050,452.



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# UNITED STATES PATENT OFFICE.

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## STEAM-COOKER.

1,050,452.

Specification of Letters Patent.

Patented Jan. 14, 1913.

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*To all whom it may concern:*

Be it known that I, CHARLES R. GRIFFIN, a citizen of the United States, residing at Peekskill, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Steam-Cookers, of which the following is a specification, reference being had to the accompanying drawings:

This invention relates to steam cookers and is particularly adapted to family use where a number of articles are required to be cooked in a limited space.

An object of the invention is to combine in the most efficient manner a number of cooking receptacles within a small space, supply the same with steam from a boiler space having the heat applied thereto in the most efficient manner so as to increase so far as possible the heating surface relative to the cross sectional area of the boiler.

A further object of the invention is to provide a hot water reservoir the contents of which will be maintained substantially at boiling temperature by the steam within the cooker and from which reservoir a supply of hot water may be drawn to compensate for any loss from the boiler, the communication between the reservoir and the boiler being such as not to interfere with the assembling and disassembling of the sectional cooker.

The invention as thus outlined and as hereinafter particularly claimed will be now described in detail in connection with the accompanying drawings wherein is illustrated a preferred embodiment of the invention.

In these drawings Figure 1 is a vertical longitudinal section through the articulate cooker sections; Fig. 2 is a cross section on the line 2-2 of Fig. 1; and Fig. 3 is a cross section on the line 3-3 of Fig. 1.

In the drawings like reference characters designate corresponding parts throughout.

While my improved steam cooker may be made of as many superposed sections as required the drawings illustrate an embodiment wherein the cooker is composed of three parts, the boiler section 1, the cover section 2 and the medial section 3. The boiler section is preferably cylindrical and contains a lower water space 4 and an upper steam space 5. The under surface of the boiler exposed to the heat is provided with a plurality of domed chambers or recesses

6 by which the area exposed to the heat is largely increased over the cross sectional area of the boiler at this point. A water gage 7 communicates with the water space at 8 and with the steam space at 9 whereby the water level in the boiler section may be visually determined. A spigot 10 enables hot water to be drawn from the boiler section when desired.

The cover section 2 is preferably domed and in its lower portion is provided with spaced diaphragms 11 and 12 forming therebetween a dead air space 13 and above the diaphragm 11 a reservoir or water space 14 which may be supplied through the funicular opening 15 provided with the plug 16. The lower margin of the cover section is slightly expanded to form an offset flange 17 adapted to take over the upper edge of the boiler section where but the two sections are employed or over the upper edge of the uppermost intermediate section. The medial section 3 is cylindrical and open above and below, the upper edge 18 of this section as also the upper edge 19 of the boiler section, is adapted to fit snugly within the offset flange 17 of the cover section while its lower margin is offset similarly to that of the cover section 2 to form the flange 20 adapted to take over the upper edge 19 of the boiler section or over the upper edge 18 of any other interposed medial section to form a steam-tight joint. Each of the sections is provided with oppositely arranged exterior handles 21 by means of which the sections may be lifted and manipulated independently one of another.

In order to provide communication between the water space 14 of the cover section and the water space 4 of the boiler section a pipe section 22 leads from the water space 14 at the point 23 through the dead air space 13 and extends below the same to substantially the lower plane of the flange 17. This pipe section is provided with a stop cock 24. The medial section 3 is likewise provided with a pipe section 25 the upper end of which terminates just below the upper edge of the medial section and is slightly enlarged to receive the lower end of the pipe section 22 while the lower end of this pipe section 25 terminates in substantially the lower plane of the flange 20. The boiler section 1 is likewise provided with a pipe section 26 the upper end of which terminates just below the top of

the boiler section and is slightly enlarged to receive the lower end of the pipe section 25 while its lower end extends to a point preferably below the water level in the water space 4.

It will be seen that if, at any time, the water level in the boiler lowers beyond the point desired, additional water may be supplied at substantially a boiling temperature by opening the stop cock 24. The steam within the cooker will maintain the water in the cover section 2 at substantially a boiling point without ebullition so that more water may be added to the boiler at any time without materially lowering its temperature and this hot water reservoir above the steam space also serves to insulate the same from exterior influences.

While I have shown the communication between the upper and lower water spaces to be arranged within the cooker, having found this arrangement to be particularly advantageous, yet it would be possible under some circumstances to arrange this communicating channel outside of the respective sections.

Within the boiler section 1 I have shown brackets 27 and 28 upon which are supported trays 29 and 30 provided with handles 31 and 32 and having foraminous bottoms 33 and 34. The medial section or sections are likewise provided with brackets 35 to support the trays 36 provided with handles 37 and foraminous bottoms 38. The

several trays will be of such a size as to drop into place without interference with the pipe sections or they will, as shown, be provided with peripheral notches 39 within which the pipe sections lie.

Having thus described the invention what is claimed is:

In a sectional steam cooker comprising a lower section, an intermediate section adapted to be mounted thereon, a cover section mounted upon said intermediate section, the said cover section being provided with a pair of spaced diaphragms to form a dead air space, a reservoir formed within said cover above said diaphragms, means of communication to said reservoir, telescopically arranged pipes mounted within the sections and connecting said reservoir to said lower section, brackets mounted within the lower and intermediate section, and trays adapted to rest upon said brackets, said trays being of substantially the same diameter in cross section as said sections and being formed with peripheral longitudinally extending recesses adapted to receive said pipes, whereby said trays may be readily inserted or removed from the cooker.

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

CHARLES R. GRIFFIN.

Witnesses:

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