

F. A. CALLEY.
 APPARATUS FOR BAKING BEANS.
 APPLICATION FILED JULY 7, 1909.

953,817.

Patented Apr. 5, 1910.

Fig. 1.

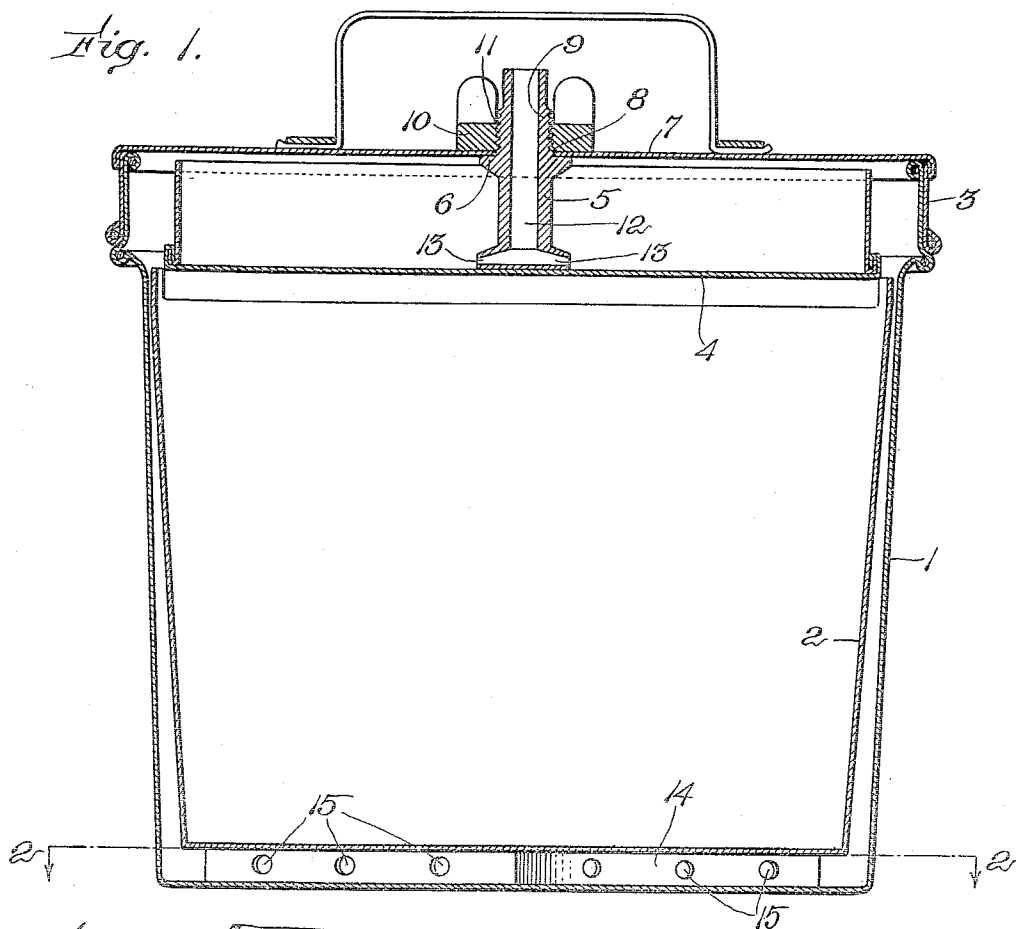
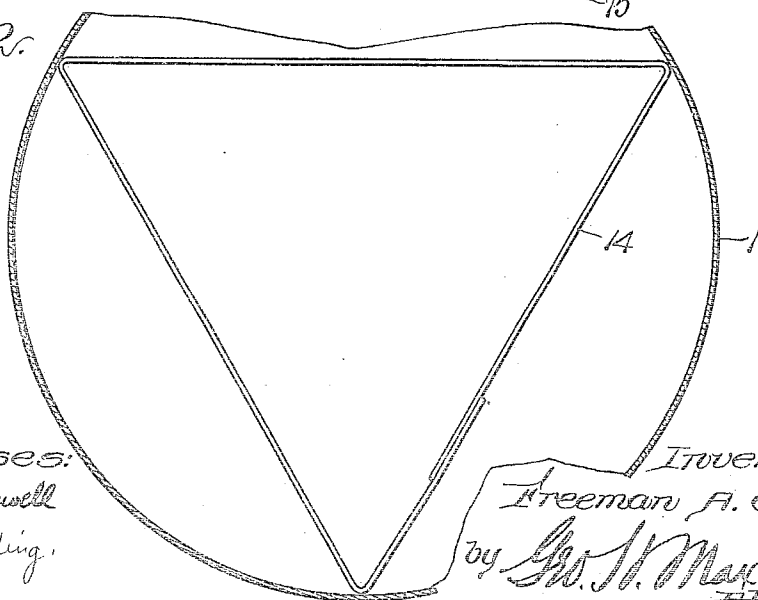


Fig. 2.



Witnesses:
 Edward Maxwell
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Inventor:
 Freeman A. Calley,
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UNITED STATES PATENT OFFICE.

FREEMAN A. CALLEY, OF FRANKLIN, NEW HAMPSHIRE.

APPARATUS FOR BAKING BEANS.

953,817.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed July 7, 1909. Serial No. 506,444.

To all whom it may concern:

Be it known that I, FREEMAN A. CALLEY, a citizen of the United States, and resident of Franklin, in the county of Merrimack and State of New Hampshire, have invented an Improvement in Apparatus for Baking Beans, of which the following description, in connection with the accompanying drawings, is a specification, like numerals on the drawings representing like parts.

My present invention is an improvement on my patented apparatus 909,988, January 19, 1909, and relates particularly to the provision for maintaining a free circulation of steam, and to this end I provide a rest, preferably triangular, between the bottoms of the outer and inner receptacles, perforated to permit free passage of steam and yet maintain the two receptacles or pots properly positioned, and I support the water tank in the cover in such a manner that it may readily be taken off for sanitary purposes, being supported by the testing tube, which is tightly but removably secured in the cover, so as to constitute a combined testing tube and removable clamping stud, the water being poured through the hollow testing tube the same as in my patent.

In the drawings, in which I have shown a preferred embodiment of the invention, Figure 1 is a central, vertical sectional view thereof; and Fig. 2 is a cross-sectional view on the line 2—2, Fig. 1.

The outer can or receptacle 1, the inner can or pot 2, cover 3, and water tank 4 may be and preferably are substantially the same as in my patent aforesaid. Secured to the center of the water tank 4 is an upwardly projecting stud 5 shouldered at 6 to fit against the adjacent top 7 of the cover 3, which is apertured at 8 to fit removably over a central extension or boss 9 of the stud 5, any suitable cooperating clamping means being provided for securing said stud tightly in said cover, as for instance a winged nut 10 is herein shown as threaded at 11 on the projecting portion 9 so as to clamp the cover tightly against the shoulder 6 of the stud. The stud is tubular, being provided with a central longitudinal opening 12 spreading adjacent its lower end to form outlets 13 near the bottom of the tank 4 to constitute a testing tube substantially the same as shown in my patent aforesaid. By reason of this construction the water

tank is filled from the outside by pouring water through the testing tube, and notice is given automatically when the water runs nearly dry in the tank by the escape of steam through the test tube, as explained in my patent, and yet the tank is suspended removably so that it may readily be cleaned, and the suspending means and the test tube are combined in the single stud 5. While I have found the threaded nut to be a convenient means of cooperating with the stud to hold the tank and cover together, any other convenient clamping means may be substituted.

Between the bottom of the inner can and the outer can I interpose a triangular band 14 for supporting the inner can at exactly the right height in stable position, said band or support 14 having openings 15 there-through to permit a uniform and free circulation of steam. The manner of using my bean pot is obvious: The inner receptacle 2 being packed with the pork and parboiled beans, etc., the operator pours through the test tube the required amount of water into the tank 4, and when this is converted into steam, the latter escapes from between the tank 4 and cover 3 and maintains the beans and pork in the desired steam-enveloped condition, the continuous high temperature quickly superheating this jacket of steam so that the moisture therefrom permeates the mass of beans until they are thoroughly and completely baked. No water is put into the beans, and therefore they have a superior mellowness and delicacy. The time when the baking of the beans is finished is determined by testing the height of the water in the tank by means, for instance, of a stick run down the test tube. After the beans are baked the tank is quickly removed from the cover for the purpose of cleaning or the like simply by disconnecting the stud 5 from the cover, by unscrewing the nut 10 therefrom. By having the removable bottom support 14, the two receptacles 1 and 2 are permitted to have perfectly smooth bottoms, advantageous for cleaning, and also uniform circulation and proper level of the inner pot are readily maintained by this means.

As already intimated, my invention is capable of variations of embodiment within the spirit and scope of the claims.

Having described my invention, what I

claim as new and desire to secure by Letters Patent is:

1. In an apparatus of the kind described, a cover, a depending water tank close within
5 said cover opening at its top adjacent the cover, and connecting means to which the tank is fastened removably connecting said cover and tank for permitting the ready cleaning of the latter.
- 10 2. In an apparatus of the kind described, a cover, a depending water tank within said cover opening at its top adjacent the cover, and a combined connecting device and tube joining said cover and tank carrying the
15 tank and opening into the tank to permit the height of water therein to be ascertained therethrough from the outside.
3. In an apparatus of the kind described, a cover, a depending water tank within said
20 cover opening at its top adjacent the cover, and a combined connecting device and tube for joining said tank and cover provided at its upper end with clamping means for detachably clamping the cover and constitut-

ing means to permit the height of water 25 therein to be ascertained.

4. In an apparatus of the kind described, a cover provided with an opening there-
through, a depending water tank within said cover opening at its top adjacent the cover, 30 said tank having fixed therein an upwardly extending hollow clamping stud extending through said opening in the cover, said stud opening adjacent its lower end into the tank and provided adjacent its upper end with re- 35 ceiving shoulders, said cover opening fitting over said stud onto said shoulders, and cooperating means engaging the upper end of said stud above said shoulders for clamping said cover in place. 40

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

FREEMAN A. CALLEY.

Witnesses:

THOMAS F. CLIFFORD,
AGNES L. GABOGAN.