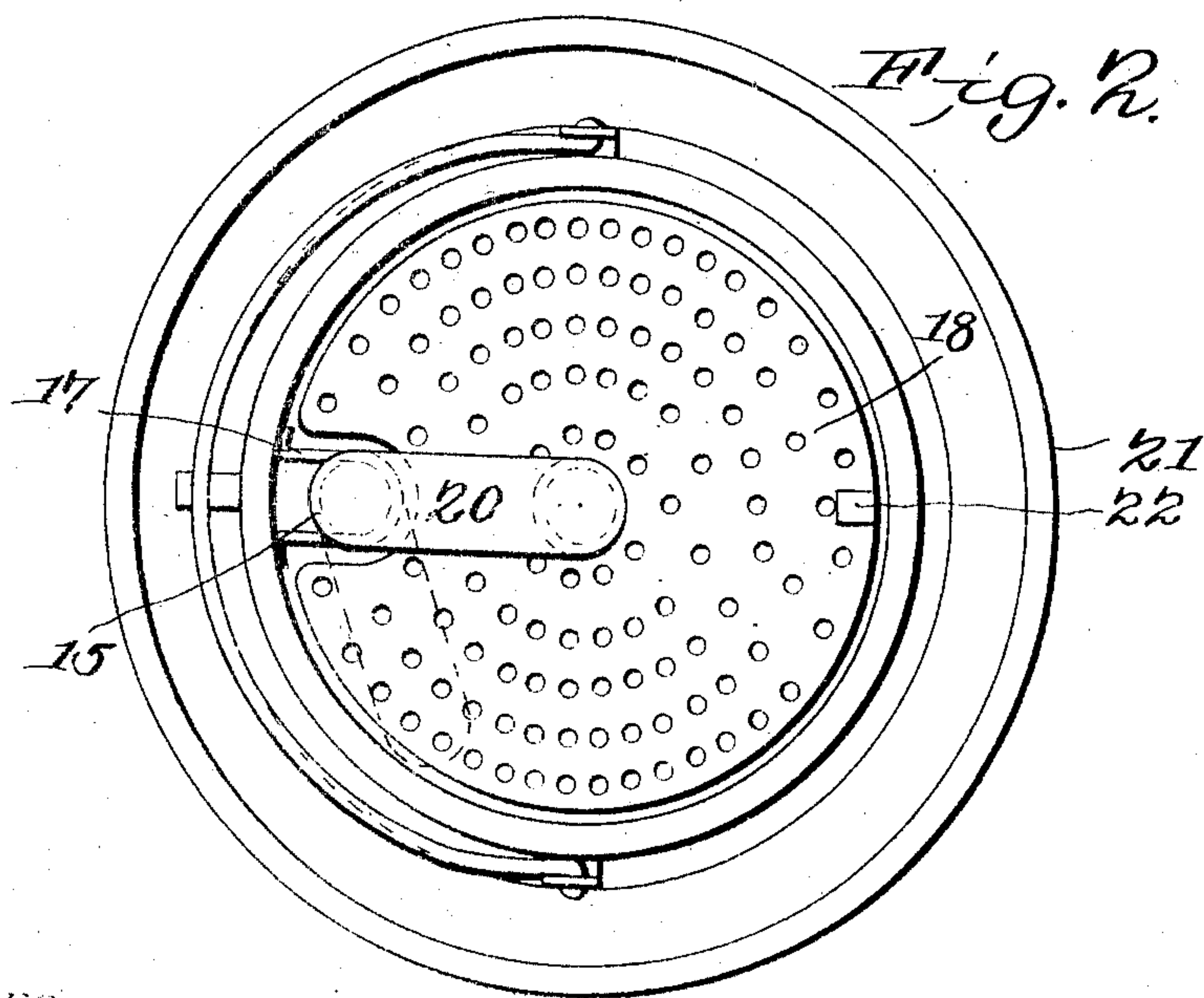
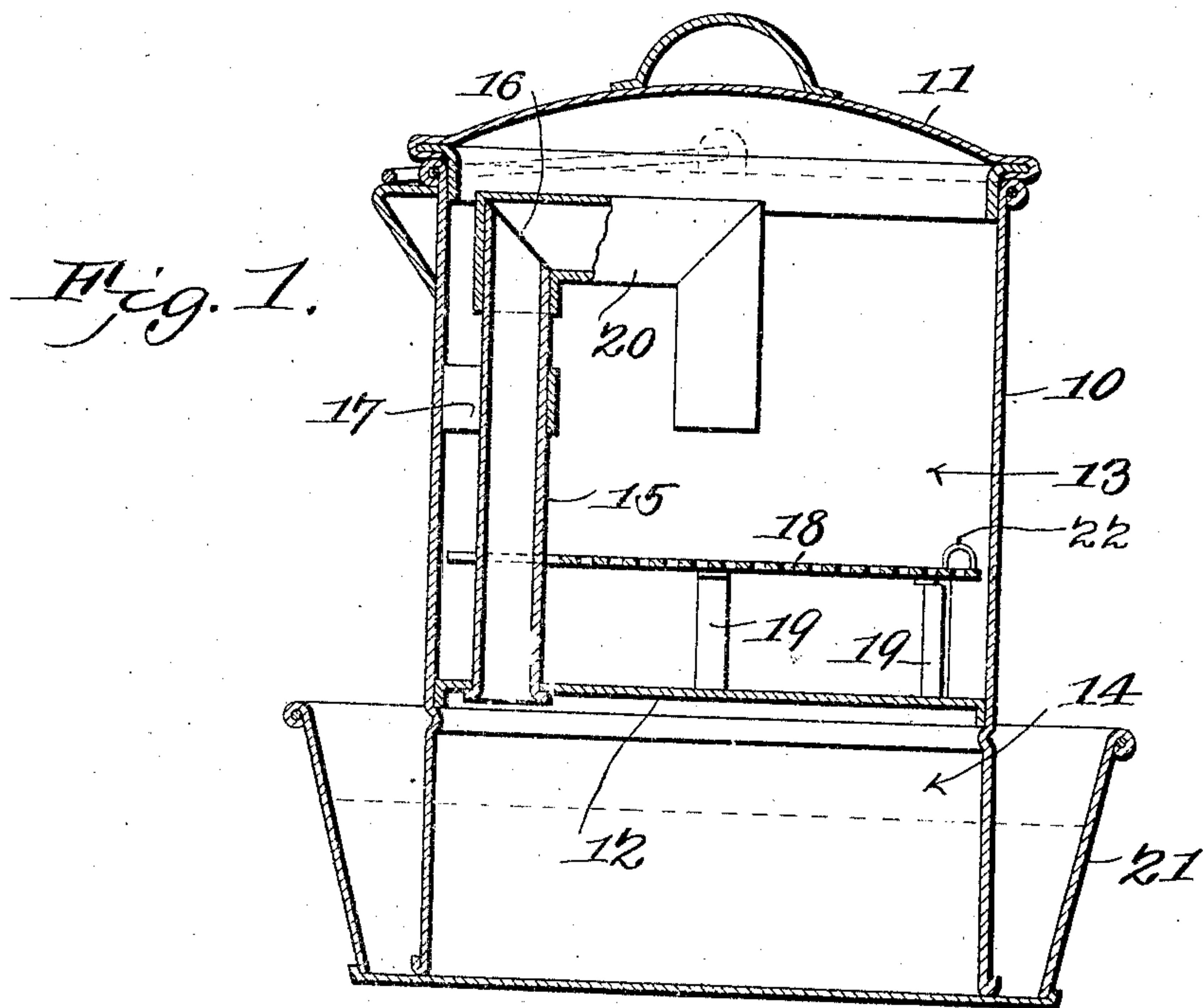


No. 840,823.

PATENTED JAN. 8, 1907.

N. N. CHASE.
STEAM COOKER.
APPLICATION FILED JAN. 20, 1906.



WITNESSES:

E. H. Stewart
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UNITED STATES PATENT OFFICE.

NIAL N. CHASE, OF PEORIA, ILLINOIS.

STEAM-COOKER.

No. 840,823.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed January 20, 1906. Serial No. 297,074.

To all whom it may concern:

Be it known that I, NIAL N. CHASE, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented a new and useful Steam-Cooker, of which the following is a specification.

This invention relates to steam cooking devices, and has for its object to improve the construction and increase the efficiency of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the invention consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation.

In the drawings, Figure 1 is a sectional elevation. Fig. 2 is a plan view with the cover removed.

The improved device comprises a shell or casing 10, open at the ends and with a detachable cover 11 at the upper end and a transverse partition 12 intermediate the ends, whereby the interior of the shell is divided into an upper compartment 13 and a lower compartment 14. Rising through the partition 12, near the shell 10, is a conductor member 15, terminating at 16 near the top of the shell and its cover 11. The conductor member is secured steam and water tight, as by soldering in the partition 12, and supported from lateral movement relative to the shell by a bracket 17.

One or more perforated plates 18 may be employed in the compartment 13, supported above the partition 12 by standards 19 to hold the food above the partition, as herein-
after explained.

Detachably supported upon the free end of the conductor member 15 is a substantially U-shaped branch conductor 20, having arms of unequal length and adapted to be engaged by either arm with the conductor member.

The shell 10 is designed to rest with its open end down in a vessel of suitable size containing water, and this vessel may be of

any size or form, so that any ordinary pan or kettle may be employed for this purpose.

It will be noted that the member 15 constitutes a support for the conductor 20 and holds it at a proper elevation at all times. In order that this member 15 can be used as a support without retarding the passage of steam, the upper end thereof is necessarily beveled, as clearly shown in Fig. 1. To illustrate the operation, a vessel of this character is shown at 21, and when heat is applied to the device steam is rapidly generated in the compartment 14 and rises through the conductor members 15 and is discharged downwardly through the branch member 20 into the compartment 13. When the chamber 13 contains a relatively small quantity of food to be cooked, the shorter arm of the branch conductor 20 will be connected to the main conductor member 15 to bring the discharge or longer end of the branch relatively near the food, which rests upon the partition 12 or upon the perforated support 18, as the case may be. If a larger quantity of food is disposed in the shell, the branch conductor will be reversed in position to bring the discharge of the latter at a higher point. By this means the steam may be discharged relatively close to the food no matter what quantity may be disposed in the food-chamber. The partition 12 being without openings except through the conductor 15, comparatively dry steam only passes into the chamber 13 and is deposited in this condition downwardly upon the food, thereby producing a more efficient action than when the food is subjected to the direct action of the saturated steam rising from a mass of boiling water.

The main conductor 15 being located near the shell 10 is out of the way of the contents of the food-chamber, which may be inserted and removed without interference therewith from the conductor. The branch conductor member may be turned laterally upon the member 15, as indicated by dotted lines in Fig. 2, to dispose it out of the way when required.

The shell and other parts may be of any required size or capacity and of any suitable material. The perforated member 18 is provided with a lifting-handle 22. The shell 10 being open at bottom ends and with only the diaphragm or partition 12 and pipe-section

15 permanently attached thereto, the parts
can be readily separated for cleansing and
every part of the interior readily accessible.
This is a very important advantage in struc-
5 tures of this class.

Having thus described the invention, what
is claimed is—

A steam-cooker comprising a water-receiv-
ing vessel, a shell having open ends and sup-
10 ported upon the bottom of said receptacle, a
partition secured within the shell and form-
ing an upper and a lower compartment, a
closure for the upper compartment, a steam-
conducting tube secured to and extending
15 upward from the partition adjacent one side
of the shell, said tube having a beveled end,
an angular tubular conductor having parallel

arms of unequal length, the interior of said
tube being unobstructed, either of said arms
being adapted to receive the beveled end of 20
the conducting-tube, said end constituting a
support for the angular conductor and adapt-
ed to hold the ends thereof above the parti-
tion, standards arranged upon the partition,
and an apertured plate carried by the stand- 25
ards and removed from the angular conduct-
ing-tube.

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

NIAL N. CHASE.

Witnesses:

HARRY MORRIS,
GEO. BRYAN.