

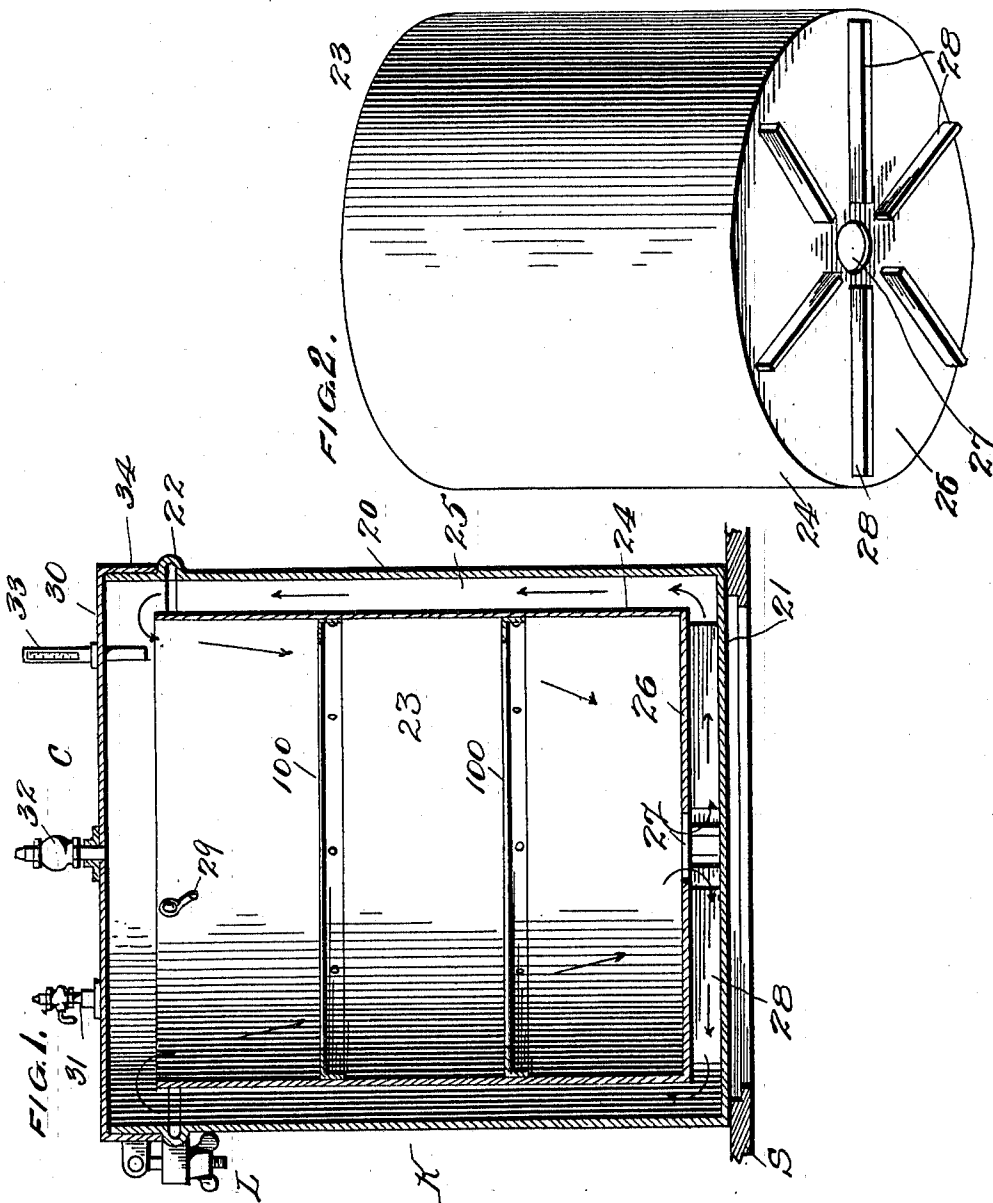
J. KLOSS.

CANNER.

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1,059,305.

Patented Apr. 15, 1913.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JETHRO KLOSS, OF ST. PETER, MINNESOTA.

CANNER.

1,059,305.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JETHRO KLOSS, a citizen of the United States, and resident of St. Peter, Nicollet county, State of Minnesota, have invented certain new and useful Improvements in Canners; and my preferred manner of carrying out the invention is set forth in the following full, clear, and exact description, terminating with claims particularly specifying the novelty.

This invention relates to domestic cooking vessels, and more especially to that class thereof known as steamers; and the object of the same is to produce an improved outfit for canning in a small way, the same contemplating either the use of its own casing forming a furnace or the use of an ordinary stove or other source of heat.

To this end the invention consists in the details more fully described below and amply illustrated in the drawings, wherein—

Figure 1 is a vertical section of the process kettle seated on a stove top, showing a flat cover secured thereon by catches. Fig. 2 is a perspective detail showing the bottom of the can holder as viewed from beneath.

In the accompanying drawings the improved process kettle has been indicated at K with the can holder therein, the said kettle being seated over an opening in the top of an ordinary stove S although it is to be understood that the kettle may be heated in any other manner desired.

The kettle K is a cylindrical vessel having a body 20 and an integral closed bottom 21 and an outstanding rib or bead 22 struck in its body around and just below its upper end; and within this kettle is loosely fitted the can holder indicated generally at 23 and which also comprises a cylindrical body 24 smaller than that of the kettle so as to leave an annular space 25 between them, and a flat bottom 26 provided with a central hole 27 and on its exterior with a series of ribs 28 spaced from each other and radiating from said hole. The can holder is supported by these ribs upon the bottom 21 of the kettle, at which time its body 24 rises to a point about opposite the bead 22, or in any event stops short of the upper end of the cylindrical body 20 of the kettle. The upper end of the can holder may carry a pivoted bail 29 by which it can be lifted out of place when desired.

The cover C is shown flat, and by preference it includes a plate 30 carrying at suit-

able points a gage 31, a safety valve 32 and a thermometer 33. The gage and the safety valve have only been shown generally inasmuch as they constitute no part of the present invention. By preference it has a depending skirt 34 surrounding its periphery and fitting closely upon the upper end of the kettle above the bead 22.

The latch or other fastening device L may be of any suitable type.

By utilizing ribs 28 which extend radially from the central opening 27, separate passages are provided through which liquid is free to circulate radially to the space between the walls of the kettle and the can holder, the direction of circulation being indicated by arrows in the drawings.

In the use of this device the parts are assembled by grasping the bail 29 and lowering the can holder 23 into the kettle until its ribs rest upon the bottom thereof; then the kettle is placed directly upon the stove. The cover C is applied in a manner which will be clear, and latched or locked upon the top of the kettle to close it, the bail or handle 29 being turned downward. It will not be necessary to elaborate upon the process of canning or cooking further than to say that whatever is to be steamed is placed within the can holder 23, possibly upon shelves which may be supported by annular flanges 100 therein, or in a frame for carrying the cans if the device be large enough to contain several. Water is poured into this holder and both the holder and the space 25 thus become filled to the desired height, and the kettle and can holder placed upon a stove S.

The heat communicated to the bottom of the kettle soon boils the water under the holder and at the lower end of the annular space 25, and the steam generated in said space rises therein until it strikes the cover C upon which it condenses and falls back onto the cans or other articles within the holder 23, so that a circulation of hot water and steam is constantly maintained as shown by the arrows. The interior temperature can be seen by the thermometer and the pressure of the steam by the gage, and should the heat be such as to cause such pressure to rise to a dangerous degree the safety valve will open and afford relief. The parts are preferably entirely of metal and the kettle and holder should be of galvanized metal so as to prevent rusting. The parts may

well be of sheet iron and the cover of sheet or cast iron or of glass if practicable so that the interior of the device can be inspected.

As at first intimated, the outfit may be made
5 small for domestic use so as to set over one stove hole if desired or to fit within a portable furnace, or it could be constructed on a larger scale without departing from the spirit of my invention.

10 What is claimed as new is:

1. A process kettle for steaming or canning, comprising an outer vessel, a smaller inner vessel spaced from the outer vessel to permit the circulation of the fluid contents
15 thereof, said inner vessel having an open top, there being a central hole in the bottom of the inner vessel, and ribs radiating from said hole and bearing on the bottom of the outer vessel, flanges within the inner vessel,
20 and a cover closing the top of the outer vessel.

2. A process kettle for steaming or canning, comprising the kettle proper consisting of a cylindrical vessel open at its top
25 and having a flat closed bottom, a can holder therein consisting of a cylindrical body and a flat bottom having a hole at its center, the

body being of less height and of smaller diameter than said vessel and having an open top disposed beneath the top of the kettle, 30 spacing ribs secured to the bottom of said body and radiating from the hole therein to points close to the periphery of the bottom, flanges secured within said body, and a cover for closing the top of the kettle above 35 the top of the holder.

3. A process kettle for steaming or canning, comprising an outer vessel, a smaller inner vessel spaced from the outer vessel to permit the circulation of the fluid contents 40 thereof, said inner vessel having an open top, there being a central hole in the bottom of the inner vessel, and ribs radiating from said hole and bearing on the bottom of the outer vessel, said ribs forming radial 45 passages therebetween.

In testimony whereof I have hereunto subscribed my signature this the 3rd day of May, A. D. 1910.

JETHRO KLOSS.

Witnesses:

H. N. BENSON,
MARJORIE HULETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."