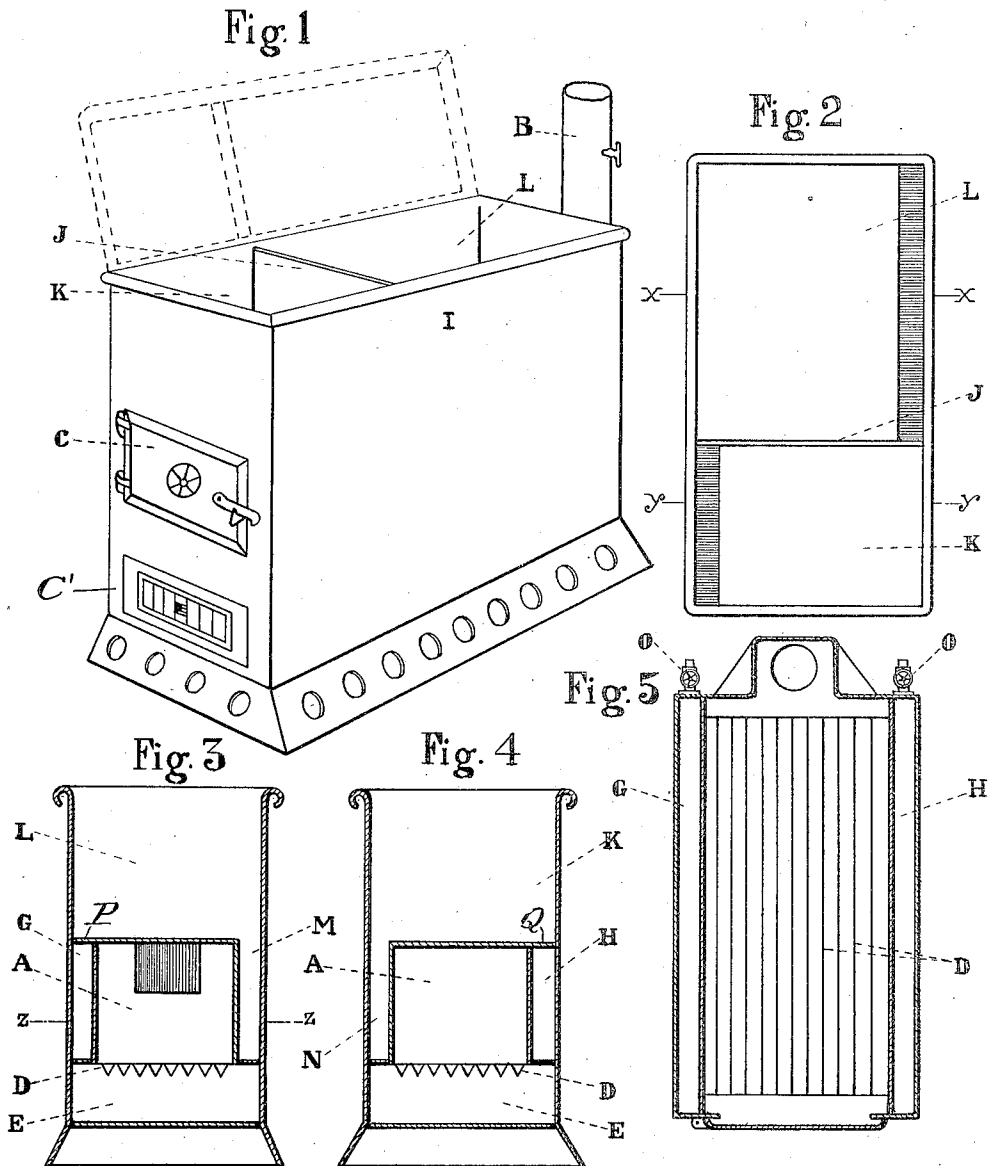


J. C. BARTLETT.
CANNING APPARATUS.
APPLICATION FILED JAN. 25, 1909.

1,057,321.

Patented Mar. 25, 1913.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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CANNING APPARATUS.

1,057,321.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed January 25, 1909. Serial No. 474,009.

To all whom it may concern:

Be it known that I, JOHN C. BARTLETT, a citizen of the United States of America, residing at Spencer, in the county of Roane and State of West Virginia, have invented certain new and useful Improvements in Canning Apparatus, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a canning apparatus for fruits and vegetables and the object of the invention is to provide a simple, relatively cheap and portable apparatus which will enable the small grower of fruit and vegetables to profitably engage in the canning business, and to this end I have devised an apparatus of this character which is adapted for continuous operation of the usual canning process which requires the fruit to be scalded first and then cooked after it is put into the cans.

As the scalding operation takes much less time than the cooking, the receptacle for cooking must be considerably larger than the former and in order to make it possible to carry out the process in a continuous manner, the water in both receptacles must be constantly maintained at the boiling temperature. Since the scalding which takes place in the smaller receptacle absorbs the heat much faster than the cooking relatively to the amount of water in the receptacles, the smaller receptacle must receive more heat than the larger one in proportion to the amount of water therein.

To accomplish all this in a simple and economical manner with the object in view I have devised the apparatus described hereinafter and shown in the accompanying drawings, in which:—

Figure 1 is a perspective view of the same, Fig. 2 is a plan view with the cover removed. Figs. 3 and 4 are cross-sections substantially in vertical planes on the lines $x-x$ and $y-y$ of Fig. 2 and Fig. 5 is a horizontal section on line $z-z$ Fig. 3.

My apparatus consists of a rectangular tank having a furnace chamber A built up in its bottom and extending the entire length of the tank and which communicates

with a smoke pipe B at the rear end, the front end being provided with a feed door C having a draft damper C'.

The furnace chamber may be provided with a grate D and with an ash pit E but if intended for burning wood only the grate and ash pit may be omitted. The sides of the furnace chamber are spaced from the side walls of the tank for the whole length and height of the furnace chamber, the spaces G and H thus provided forming independent water jackets. The space in the tank above the top of the furnace is divided transversely of the furnace by a partition J placed forward of the longitudinal center of the tank into a rear compartment L and a front compartment K of smaller size.

P is a horizontal partition separating the space between the furnace chamber and one side of the tank from the space in the front compartment above and Q is a like partition separating the space between the furnace and the other side of the tank from the space in the rear compartment above the furnace chamber, the partitions being on a level with the top of the furnace chamber and forming in connection therewith the can supporting bottom of the compartments. In this way the required heating balance necessary to adapt the apparatus for continuous operation at maximum output can be easily obtained within the scope of my invention and a factor which contributes to the efficiency is that the water legs provide an efficient circulation of the water within each receptacle and also permit the easy removal of sediment through valved outlets O at the end of the waterlegs. As the whole apparatus may be readily constructed of sheet metal it is comparatively inexpensive.

What I claim as my invention is:—

A canning apparatus comprising a tank having a furnace chamber formed up in its bottom extending the whole length of the tank from front to rear thereof, and having its sides spaced from the lateral sides of the tank, a transverse vertical partition dividing the space in the tank above the top of the furnace chamber into a

smaller forward compartment and a larger compartment, and a horizontal partition in each of said compartments separating the space between the furnace chamber and one side of the tank from the space above the furnace chamber, said partitions being on opposite sides of the furnace chamber in the two compartments, and each partition forming in connection with the adjacent top of

the furnace chamber the can supporting bottom of its compartment. 10

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

JOHN C. BARTLETT.

Witnesses:

WM. STARCHER,

C. A. GOFF.

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