

(No Model.)

J. L. SMITH.

APPARATUS FOR COOKING OR STEAMING FRUIT, &c.

No. 302,043.

Patented July 15, 1884.

Fig. 2.

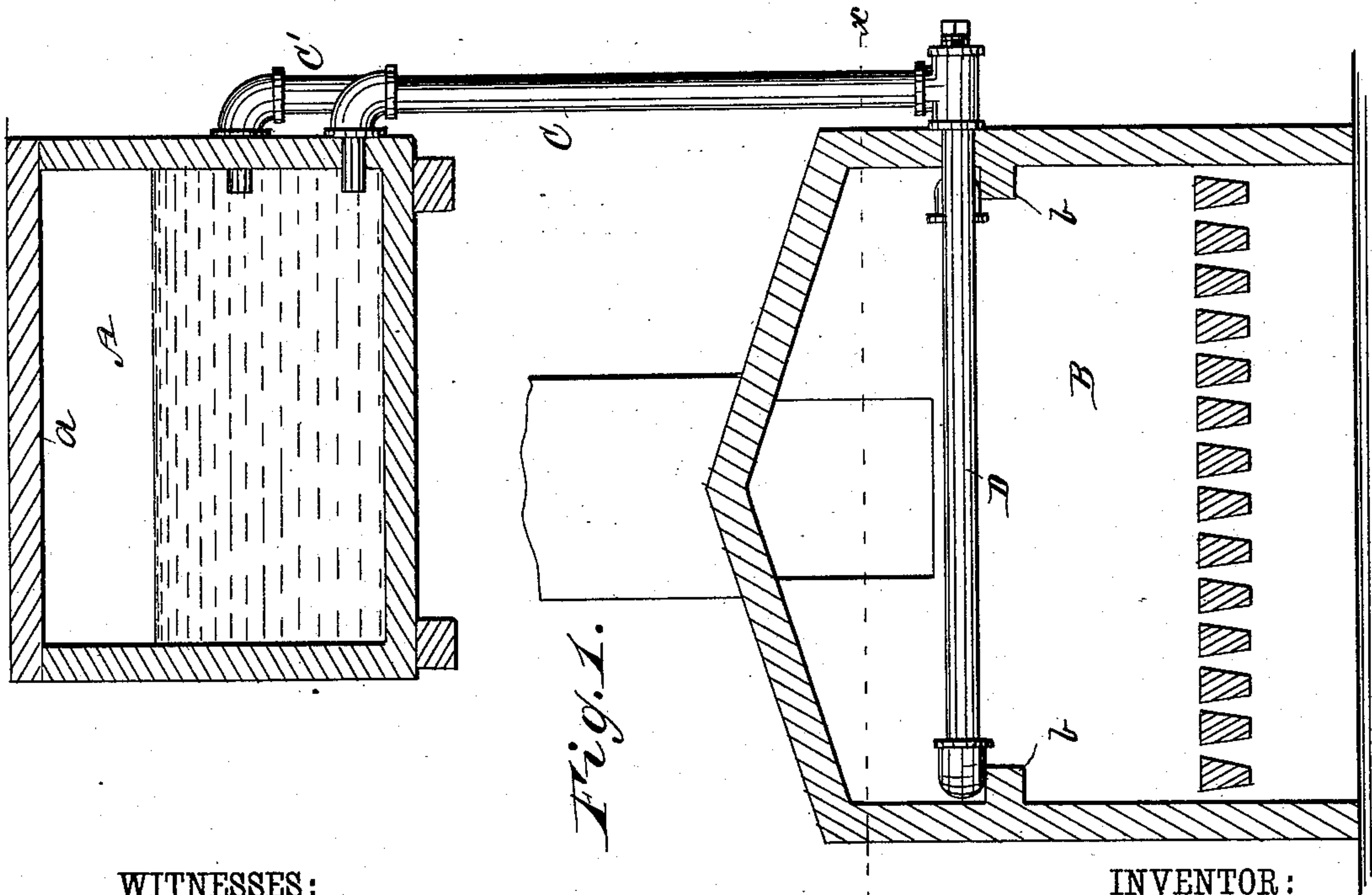
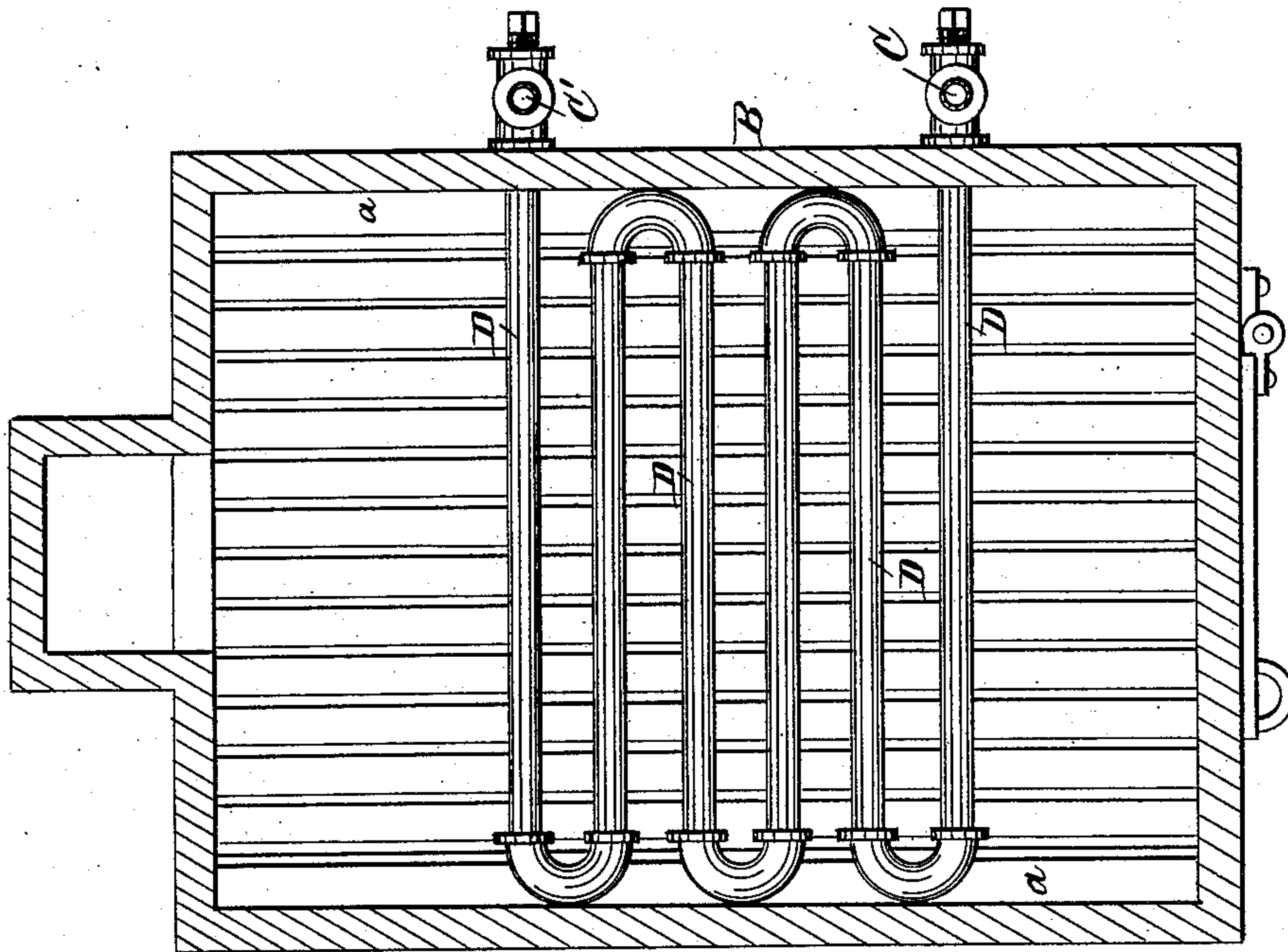


Fig. 1.

WITNESSES:

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JAMES LEWIS SMITH, OF MILFORD, DELAWARE.

APPARATUS FOR COOKING OR STEAMING FRUITS, &c.

SPECIFICATION forming part of Letters Patent No. 302,043, dated July 15, 1884.

Application filed October 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. SMITH, of Milford, in the county of Kent and State of Delaware, have invented certain new and useful Improvements in Apparatus for Cooking or Steaming Fruits, Vegetables, and other Substances for Canning and other Purposes, of which the following is a full, clear, and exact description.

My invention relates to improvements in apparatus for cooking or steaming fruits, vegetables, and other materials; and it consists in the peculiar construction and arrangement of parts, as hereinafter fully described, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 represents a vertical section of an apparatus embodying my invention, and Fig. 2 a horizontal section thereof on the line *xx* in Fig. 1.

A indicates a box, vat, or tub, made of either wood or metal, lined or not, and provided with a removable cover, *a*, having a close fit for steaming or other purposes. This box or vessel is made to occupy an elevated position relatively to a furnace, B, which may be made either of brick or iron, and is provided with the inwardly-projecting flanges *b* on two sides, for the support of the heating-coil.

Connecting the vessel A with the furnace B are pipes C C', the one, C, of which is extended downward, and attached at its lower end to the one end of a coil of pipes, D, supported horizontally within the fire-chamber of the furnace by the flanges *b*, while the other pipe, C', runs upward from the other end of the coil to the vessel A. Said pipes C

C' may connect with the vessel A at any suitable points in the height of the latter below the water line or level thereof.

Any unskilled person may charge the apparatus with the necessary quantity of water without risk of explosion, and the water descending from the vessel A by the one pipe will pass into the coil of pipes, whereby it will be highly heated by the action of the flame and heated gases on the coil, and from thence return upward to the vessel A by the other pipe, thus keeping up a circulation and causing the water to boil or form steam within the vessel A, in which the fruit or vegetables to be cooked or materials to be treated are placed. There may be as many cooking or steaming kettles, tubs, or vats connecting with as many coils of any size in the furnace as may be necessary, or the kettles, tubs, or vats may be connected to one coil sufficiently large to do the necessary work.

I am aware that a vertical coil of pipe arranged in the fire-chamber of a furnace has had its ends connected with a tank, and I therefore do not claim such invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a cooking or steaming apparatus, the combination, with an elevated cooking or steaming vessel, A, having the cover *a*, of the furnace B, provided with the inwardly-projecting flanges *b* on opposite sides, the coil D, supported in a horizontal position on said flanges, and the pipes C C', connecting the ends of the coil with the vessel A, substantially as herein shown and described.

JAMES LEWIS SMITH.

Witnesses:

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