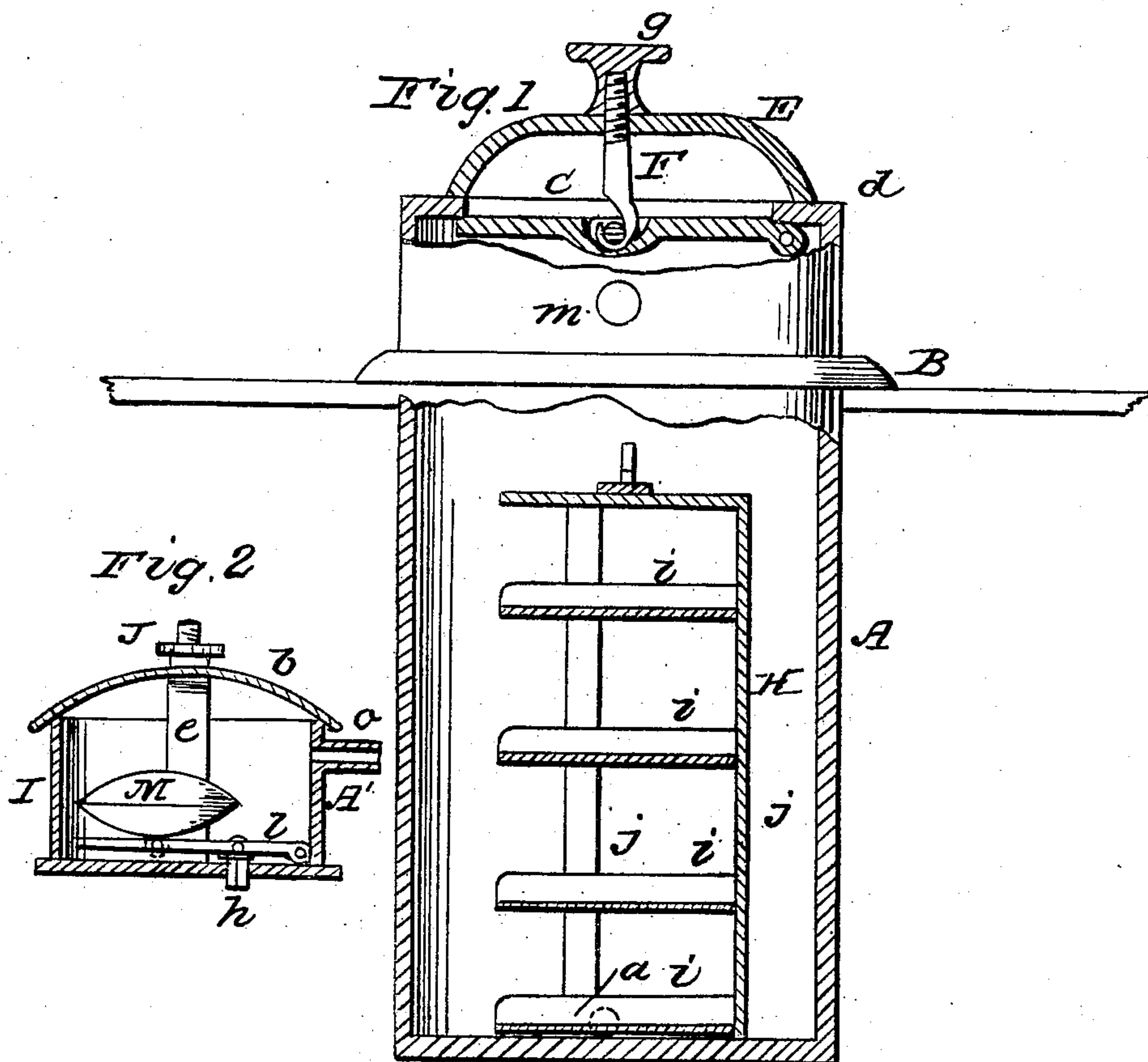


L. McLELLAN.  
Domestic Boiler.

No. 89,419.

Patented April 27, 1869.



Witnesses  
Wm A. Morgan  
G. C. Leighton

Inventor  
L. McLellan  
per Munnell  
Attorneys

# United States Patent Office.

LEWIS McLELLAN, OF GORHAM, MAINE.

Letters Patent No. 89,419, dated April 27, 1869

## IMPROVEMENT IN CULINARY-BOILERS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, LEWIS McLELLAN, of Gorham, in the county of Cumberland, and State of Maine, have invented a new and useful Improvement in Cooking Canned Corn, and other articles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved device for cooking, boiling, or preparing corn, and other articles which it is designed to preserve in hermetically-sealed cans. And

It consists in the combination of the steam-trap with the boiler, or vessel of peculiar construction, wherein is placed the corn, or other article to be cooked by steam, at a temperature higher than  $212^{\circ}$ , or by boiling under pressure, as may be deemed most proper for the article to be prepared, as will be hereinafter more fully described.

In the drawing—

Figure 1 represents a vertical section of the vessel, constructed according to my invention, provided with a rack, or removable shelves, on which the pans containing the cans of corn, or other article, are placed for cooking.

Figure 2 is a vertical section of the steam-trap.

Similar letters indicate like parts.

A represents a boiler, or vessel, of any desired shape and size, and constructed of any suitable material.

B is a flange, which allows the vessel to be suspended from a floor, or shelf, as seen in the drawing in red lines.

C is the door, which is hinged to the under side of the flange, or head *d*, which, when closed, is made steam-tight with suitable packing.

E is a bail, the ends of which rest upon the flange *d*.

F is a screw-hook, which hooks on to a wrist in the door and passes up through the bail, with a knob-nut, *g*, upon its upper end, so that, when closed, the door can be drawn tightly up, and made steam-tight against the lower side of the flange *d*.

H is a rack of shelves, which shelves may be more or less in number, and of any suitable size, either fixed or adjustable.

*i* represents the shelves, and

*j*, the stays, or bars, by which the shelves are supported.

The shelves contain the pans of corn, or other article in cans, to be cooked, and the rack containing the cans is lowered down into the vessel, and the door is closed.

Steam is admitted through the aperture marked *m*. *n* is an orifice, near the bottom of the vessel, for the discharge of the water of condensation, which is provided with the valve, or trap I, to prevent the escape of steam, and so that water may be retained in the vessel, if desired, during the process.

The trap I is formed of a cylindrical vessel, A', connected to the discharge-opening *n* in the vessel A, by means of the lateral pipe O.

*b* is the cover of the trap, which is supported by the bail *e*, and held in place by means of the screw-rod and nut J.

The bottom of the trap is provided with a discharge-opening, in which the valve *h*, attached to the pivoted arm *l*, works.

M is a float, attached to the arm *l*, and when this float is raised by the water of condensation, the valve *h* is also raised sufficiently to discharge such water.

It must be observed that the water will be discharged before it reaches the level of the pipe O.

When the corn, or other article, is sufficiently cooked, the vessel is opened, and the rack, with the pans and cans of corn, is hoisted out.

This vessel may be placed over a fire, in a suitably-constructed furnace with water, where the corn, or other article, may be subjected to any desired degree of heat, but I prefer the use of steam, introduced as described, as, by the steam-process, the corn changes color less than when it is cooked by boiling in water.

By cooking the corn, &c., in a closed vessel, under pressure, the time required for the process is greatly lessened, and the article less injured than by boiling in the ordinary manner.

I claim as new, and desire to secure by Letters Patent—

The trap I, in combination with the vessel A, constructed as described, and provided with the flange B, steam-supply opening *m*, the hinged cover C, bail E, hook F, nut *g*, and rack H, as herein set forth, for the purpose specified.

LEWIS McLELLAN.

Witnesses:

H. E. DAY,

CHAS. H. REYNOLDS.