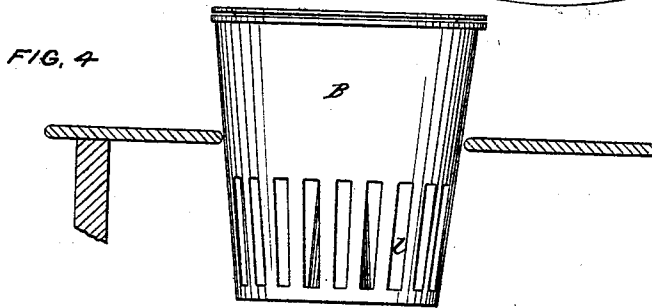
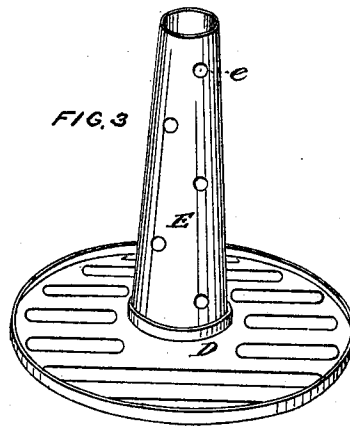
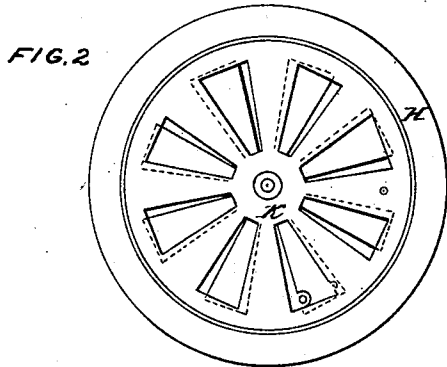
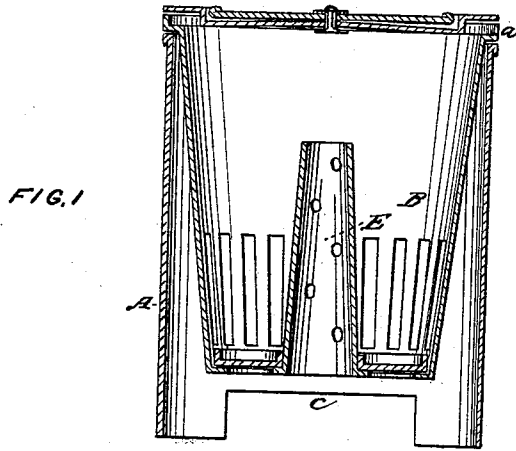


R. O. STEVENSON.  
Portable Furnace.

No. 101,676.

Patented April 5, 1870.



WITNESSES:  
*Edward Masi*  
*Chas. Kenyon*

INVENTOR:  
*R. O. Stevenson*  
*Chipman Hosmer & Co*  
*Attorneys*

# United States Patent Office.

RUFUS O. STEVENSON, OF BALTIMORE, MARYLAND.

Letters Patent No. 101,676, dated April 5, 1870.

## IMPROVEMENT IN SUMMER COOKING-FURNACE.

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, RUFUS O. STEVENSON, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and valuable Improvement in Summer Cooking-Furnaces; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical section of my furnace;

Figure 2 is a view of the cover;

Figure 3 is a perspective view of the disk D and tube E; and

Figure 4 is a view of the cylinder B, all of which are hereinafter described.

My invention relates to means for cooking, heating sad-irons, and other similar domestic activities, and consists in the construction and novel arrangement of devices by which such domestic labor may be carried on in an open yard or summer kitchen without the aid of the ordinary cooking-stove, and which said devices may also be made to serve as important appendages to a cooking-stove when desirable so to do.

A of the drawing represents an outer cylinder, with openings at its bottom, marked *e*, for the admission of air.

B represents an interior cylinder, constructed in the form of an inverted frustum of a cone, and having its lower end slotted, as shown.

The top of this cylinder B has a circular flanch, *a*, by which it rests upon the top of cylinder A.

This cylinder B is of less length than cylinder A, as the drawing represent, and at its lower end it has a flanch turned inward to form a rest and support for the disk D, next mentioned.

The disk D is formed in the shape of a slotted plate, of a diameter adapted to the interior of the bottom of cylinder B, upon the lower flanch of which it rests, and from which it is removable at will.

E is a perforated conical tube attached firmly upon the disk D, as shown, and extends upward therefrom to within three inches, more or less, from the top of cylinder B. There is an opening in the center of disk D, of the size of the lower end of this tube, and over which opening said tube is attached.

The letter H represents my combined cover, damper, and griddle. It consists in a disk that rests upon the top of cylinders A and B, as shown, and is removable

therefrom. This disk is cut out in the manner shown, forming a series of slots.

Above this disk I affix a slotted wheel with radiating arms, adapted for opening or closing the slots in the disk at will, in the manner of registers for heaters. This wheel is marked K on the drawing.

To operate my device, I arrange the several parts together in the manner shown on fig. 1, and build a coal fire upon the disk D.

I can then use the cover H as a griddle for broiling, or can remove it, if desirable, and place a kettle in its stead.

The tube E serves to prevent the coal from packing, while its perforations, in conjunction with the openings *c* and the slots in disk D and cylinder B, serve to supply the requisite air to the burning fuel.

My apparatus is also adapted for use in an ordinary cooking-stove, being used in a boiler-hole, or it may be used in an open fire-place, when it is desirable, to prevent heat from passing into the apartment.

In using it in a boiler-hole, I first make the fire as great as necessary, and afterward arrange it in the boiler-hole, when the draught of air will pass downward and out through the stove-pipe.

The slots *l* in the side of the fire-pot, and the perforations *e* in the wall of the central tube, are designed to permit a thorough draught to all parts of the coal-bed, and at the same time to prevent the walls of the fire-pot and central tube from being rapidly burned out.

During the operation of kindling, the register at the top is opened, and a downward draught is at once created through the openings above mentioned, and through the removable grate at the bottom. After the fire is thoroughly kindled, the register may be totally or partially closed, and the heat allowed to ascend for the purpose of cooking. The door of the stove should then be opened to supply air to the fire.

I claim as my invention—

In combination with a register-cover H, the fire-pot B, having side slots *l*, and removable grate D, having central conical tube E open at both ends, and provided with the perforations *e*, as specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

RUFUS O. STEVENSON.

Witnesses:

E. P. MASÉ,  
D. D. KANE.