

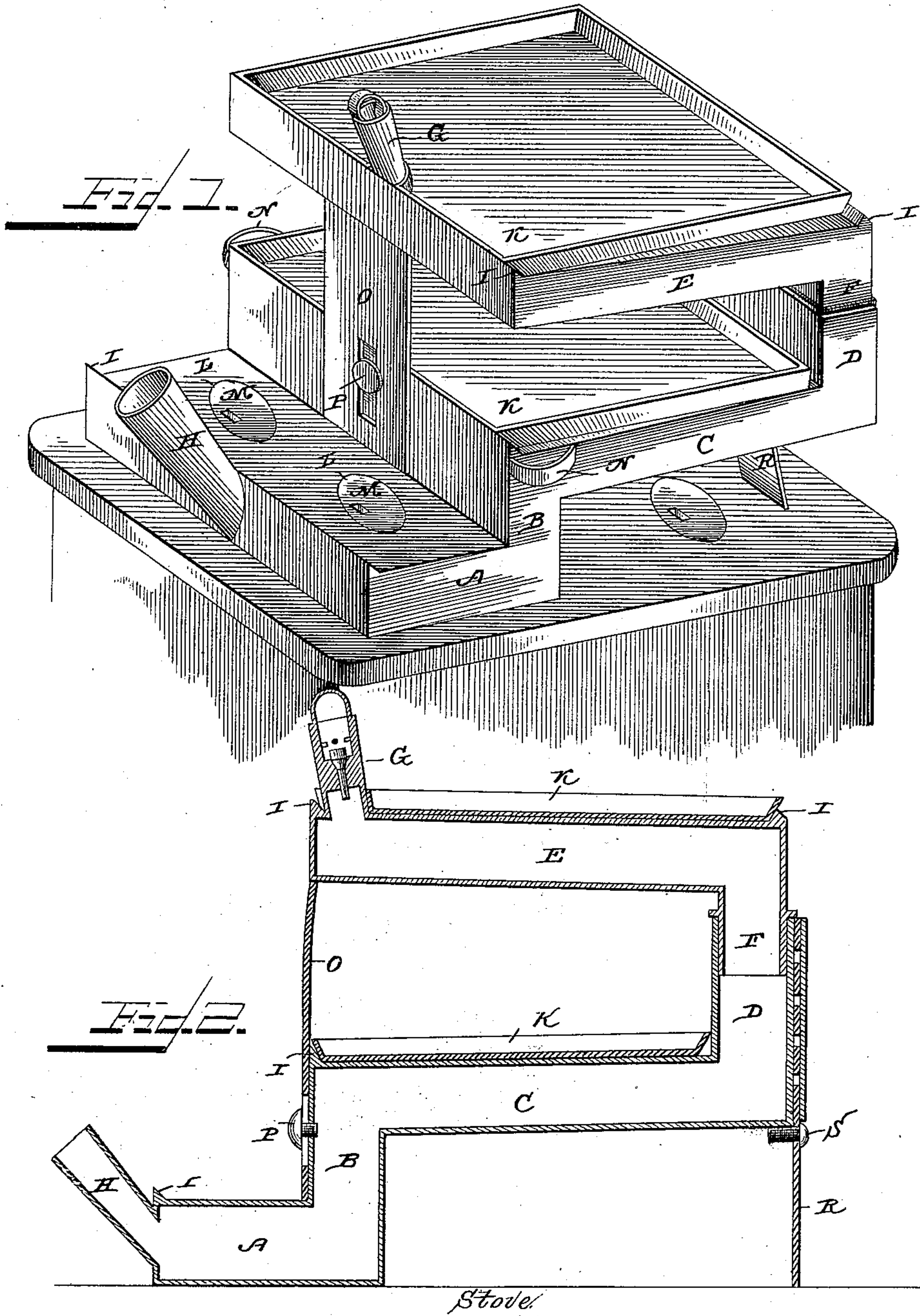
(No Model.)

J. J. WOLFE.

FRUIT DRIER.

No. 333,435.

Patented Dec. 29, 1885.



WITNESSES

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JOHN J. WOLFE, OF WEST MILLVILLE, PENNSYLVANIA.

FRUIT-DRIER.

SPECIFICATION forming part of Letters Patent No. 333,435, dated December 29, 1885.

Application filed June 26, 1885. Serial No. 169,874. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. WOLFE, a citizen of the United States, residing at West Millville, in the county of Clarion and State of Pennsylvania, have invented a new and useful Improvement in Evaporators and Driers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in evaporators and driers adapted to be used in connection with an ordinary cooking stove or range; and it consists in the peculiar construction and arrangement of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of an evaporator embodying my invention. Fig. 2 is a vertical longitudinal sectional view of the same.

A represents a horizontal rectangular flat boiler, from the rear side of which extends a vertical extension, B, which is connected and communicates with a horizontal steam-chamber, C, which extends laterally from the rear side of the boiler. From the rear side of the steam-chamber C extends a vertical section, D.

E represents a separable steam-chamber, which is provided on its rear side with a depending extension, F, which is adapted to fit in the vertical section D, and thereby secure the chamber E to the chamber C, as shown.

To the front side of the chamber E is attached a steam-pressure-regulating valve, G, and to the front side of the boiler is attached a funnel-shaped opening, H, through which the feed-water for the boiler is passed.

The boiler and each of the steam-chambers are provided on their upper sides with flanges I, adapted to retain in position the shallow trays or pans K, in which the food or vegetables to be dried are placed. In the upper side of the boiler are made openings L, which are provided with lids M, similar to the openings and lids of an ordinary cooking-stove, and by means of which a pot or pan or other cooking utensil may be placed on the boiler when it is desired to do cooking at the same time the evaporator is used. Handles N are attached to the evaporator on the ends of the steam-chamber C, as shown.

To the front sides of the vertical extension

B of the boiler is attached a vertical slotted plate, O, by means of the set-screw P, which passes through the slot. This plate is adapted to support the free front end of the detachable steam-chamber E, and by means of the slot and the set-screw said plate is vertically adjustable, as will be very readily understood.

To the rear side of the vertical section D is secured a vertical adjustable foot-supporting plate, R, which is provided with a set-screw, S, that is adapted to pass through a series of openings made in the plate, and to bear against the under side of the chamber C. This evaporator is designed to be used in connection with an ordinary cooking stove or range, and the purpose of the supporting-plate R is to maintain the evaporator in a horizontal position on the top of the stove, as shown in Fig. 2.

It will be observed that the steam-chamber C is at a considerable height above the bottom of the boiler, and that thereby a large space will be left unobstructed on the upper side of the stove beneath the chamber C, to allow the cooking to be proceeded with at the same time that the evaporator is used, as the boiler is only of sufficient size to about cover two of the stove-holes. The steam-chambers C and E are not exactly horizontal, but are very slightly inclined toward the boiler. The water in the boiler is converted into steam and passes up near the chambers C and E, and is maintained therein at a suitable pressure by the valve G, through which it escapes. The water resulting from the condensation of a portion of the steam is conducted back into the boiler by the inclination of the steam-chambers, as will be very readily understood.

I have herein shown and described only one detachable chamber, E; but any desired number of said chambers may be used, and thereby increase the capacity of the evaporator to any desired extent.

In order to define the nature and scope of the present invention, I would state that heretofore it has been proposed to provide a fruit-drier with a generator or boiler and a series of removable steam-chambers arranged vertically above the generator and communicating with the steam-space thereof by means of tubes, either rigid or flexible, and having a supporting-plate at one end adapted to rest on the adjacent section. My invention differs from

these, in the fact that I employ a steam-chamber connected to and forming part of the boiler at one side thereof, to leave the upper or top surface free for the reception of cooking utensils, and in the fact that I employ adjustable supporting-plates adapted to bear against the steam-chambers and to vary the angles thereof, so as to permit the water of condensation to flow back into the boiler or generator.

Having described my invention, I claim—

1. An evaporator consisting of the boiler, the steam-chamber extending laterally therefrom at a distance above the boiler, detachable steam-chambers (one or more) secured vertically above the steam-chamber, the steam-escape valve G, the inlet-spout H, for the feed-water for the boiler, and the adjustable plate R, for supporting the rear end of the steam-chamber, substantially as described.

2. An evaporator consisting of the boiler and

the steam-chambers (one or more) extending therefrom, the boiler being provided on its upper side with the openings and lids, for the purpose set forth, substantially as described. 25

3. The evaporator consisting of the boiler A, the steam-chamber C, extending laterally therefrom at a distance above the boiler, the detachable steam-chamber E, secured vertically above the chamber C and communicating therewith, and the adjustable plate O, secured to the boiler, supporting the free ends of the chamber E, and the adjustable plate R, for supporting the rear end of the chamber C, substantially as described. 30

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses. 35

JOHN J. WOLFE.

Witnesses:

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