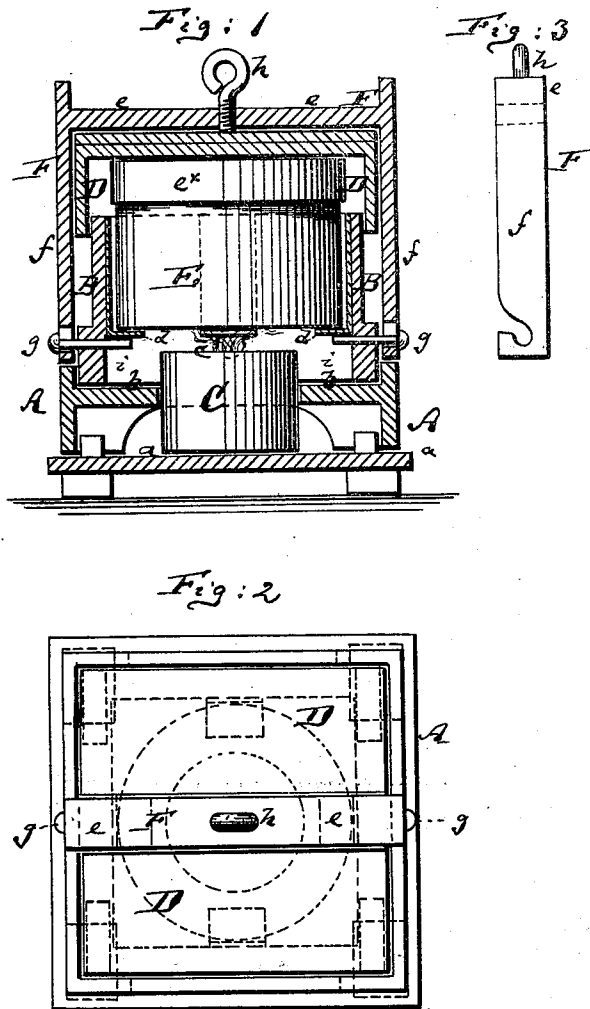


A. STARK.

PORTABLE COOKING APPARATUS.

No. 179,430.

Patented July 4, 1876.



Witnesses:

L. P. Briesen
Ernest W. Coe

Inventor

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UNITED STATES PATENT OFFICE.

ADALBERT STARK, OF MUNICH, GERMANY.

IMPROVEMENT IN PORTABLE COOKING APPARATUS.

Specification forming part of Letters Patent No. **179,430**, dated July 4, 1876; application filed June 9, 1876.

To all whom it may concern:

Be it known that I, ADALBERT STARK, of Munich, Kingdom of Bavaria, Germany, have invented a new and Improved Portable Cooking Apparatus, of which the following is a specification:

This invention relates to an improved portable cooking apparatus, to which the heat is imparted by a kerosene or other lamp, or by equivalent means.

The invention has for its object to utilize all the heat evolved by the flame, and to retain the same in contact with the culinary vessel, so that thereby the cooking operation is accelerated and fuel saved.

The invention consists, first, in inclosing the culinary vessel in a surrounding box, into which the heat is introduced, and which is provided at its inner side with suitable brackets for the support of the culinary vessel. The invention also consists in the means for locking down the cover of the culinary vessel, and in other details of construction hereinafter more fully pointed out.

In the accompanying drawing, Figure 1 is a vertical central section of my improved cooking apparatus. Fig. 2 is a top view thereof; Fig. 3, a detail side view of one of the vertical arms of the locking-frame.

Similar letters of reference indicate corresponding parts in all the figures.

The letter A represents the base or support of my improved cooking apparatus. The same is preferably constructed of two horizontal plates, *a* and *b*, one directly above the other. The upper of these plates *b* is perforated at its center to allow the upper part and burner *c* of a lamp that is placed upon the lower plate *a* to pass through the same, as is clearly shown in Fig. 1. B is a box or case, open at top and bottom, of suitable size and form, and supported on the foot A, to surround the lamp C. This box B, which I prefer to make of wood, may be lined with a coating composed of ashes and glass, or of other suitable material to increase its non-conductibility of heat. At its outer side the box B may be covered with sheet-iron, if desired. The box B is closed on top by a lid or cover, D. To the inner side of the box B are secured suitable brackets *d d* for the

support of the culinary pot or vessel E, that is placed upon such brackets within the box B, and directly above the burner *c*, as clearly shown in the drawing.

The vessel E may be made of metal or other material, and should be of a considerable smaller diameter than the inner diameter of the box B, so that an air-space is left between the vessel E and the inner side of the box B.

The vessel E is provided with a cover, *e*^x, that may be closed hermetically upon the vessel E by a frame, F, which straddles the cover D and the box B, as shown. This frame F is composed of a horizontal top bar, *e*, and of two vertical bars, *f f*, as shown. The bars *f f* are hook-shaped at their lower ends, Fig. 3, to engage over pins *g g* that project from the outer side of the box B, while the horizontal bar *e* is provided with a suitable screw, *h*, by which the cover D may be pressed upon the vessel E.

An air-opening, *i*, should be left in the lower part of the box B for feeding fresh air to the flame.

In using this apparatus the matter to be cooked is first placed into the vessel E, which is thereupon closed and placed upon the brackets *d* within the box B. The cover D is now closed upon the box, so that it will rest on the cover *e*^x, and the frame F is properly placed over the same, with the hook-shaped arms *f f* engaging the pins *g g*, and the screw *h* screwed down upon the cover D, causing it to close the cover *e*^x hermetically upon the vessel E. The flame is now ignited below the vessel E. The heat evolved will be confined within the box B, embrace the vessel E, and affect the same at its bottom and sides in the desired manner.

The cooking operation will, therefore, be greatly accelerated and fuel saved.

A safety-valve may, if desired, be applied to the cover of the vessel E, to prevent explosion, if the pressure within should become too strong.

The apparatus is entirely smokeless, and needs no further attention if once properly started.

I claim as my invention—

1. In a portable cooking apparatus, the combination of the outer box B, which carries the inwardly-projecting brackets *d*, with the cover

D, all arranged to support and embrace the culinary vessel E, substantially as herein shown and described.

2. The combination of the straddling frame F and screw *h* with the cover D, box B, and culinary vessel E, all arranged to crowd the cover D upon the cover *e*^{*} of the vessel E, substantially as specified.

3. The combination of the support A and lamp C with the box B, brackets *d*, cover D,

frame F, and culinary vessel E, all arranged substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of March, 1876.

ADALBERT STARK.

Witnesses:

M. HOHENLEITNER,
WILHELM WEISS.