

(No Model.)

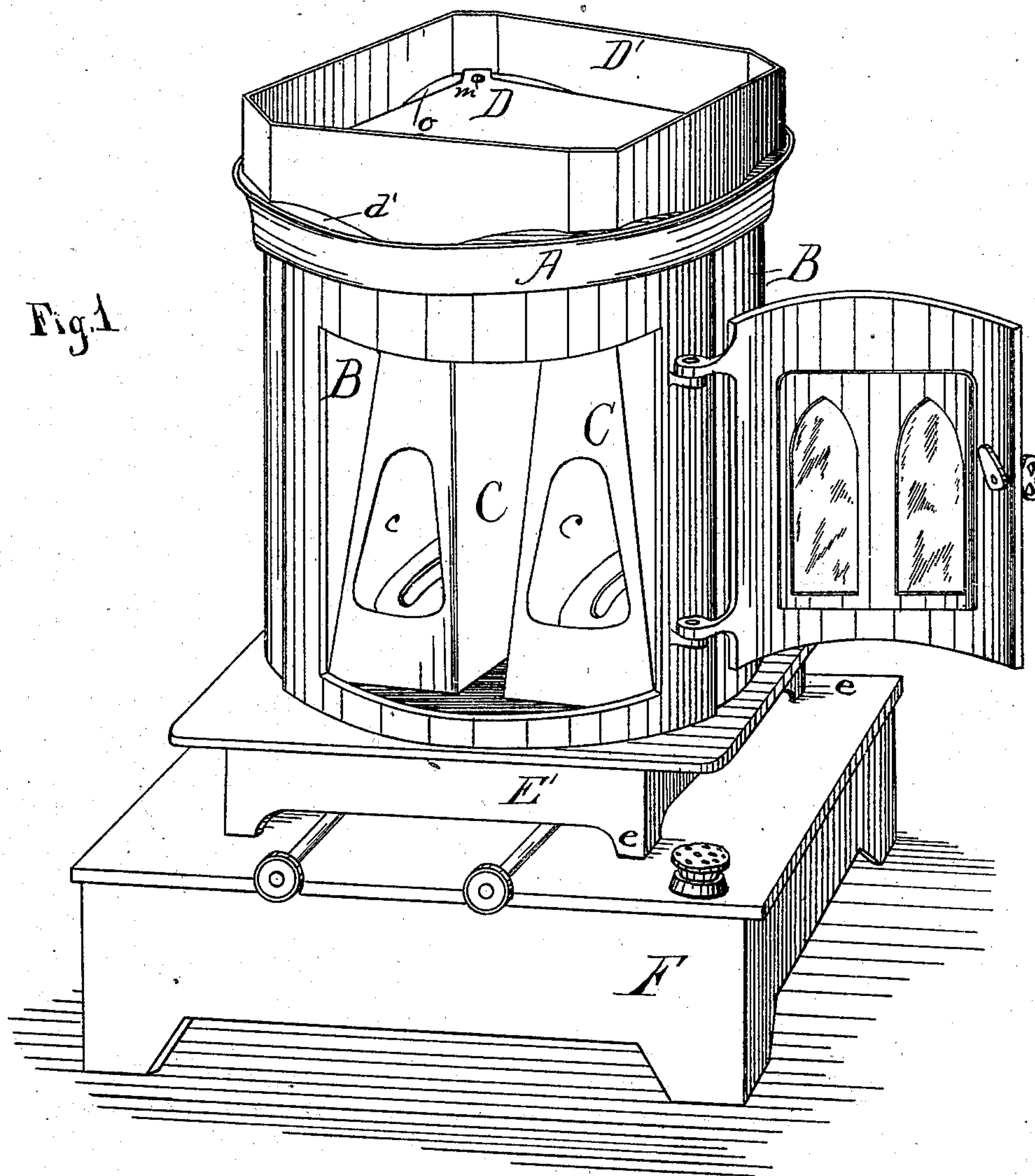
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I. F. KEARNS.

FLAT IRON ATTACHMENT FOR OIL STOVES.

No. 272,059.

Patented Feb. 13, 1883.



Witnesses:
J. Everett Brown
A. Munday

Inventor:
Isaac F. Kearns:

per *Munday, Everts & Adcock*

his Attorneys:

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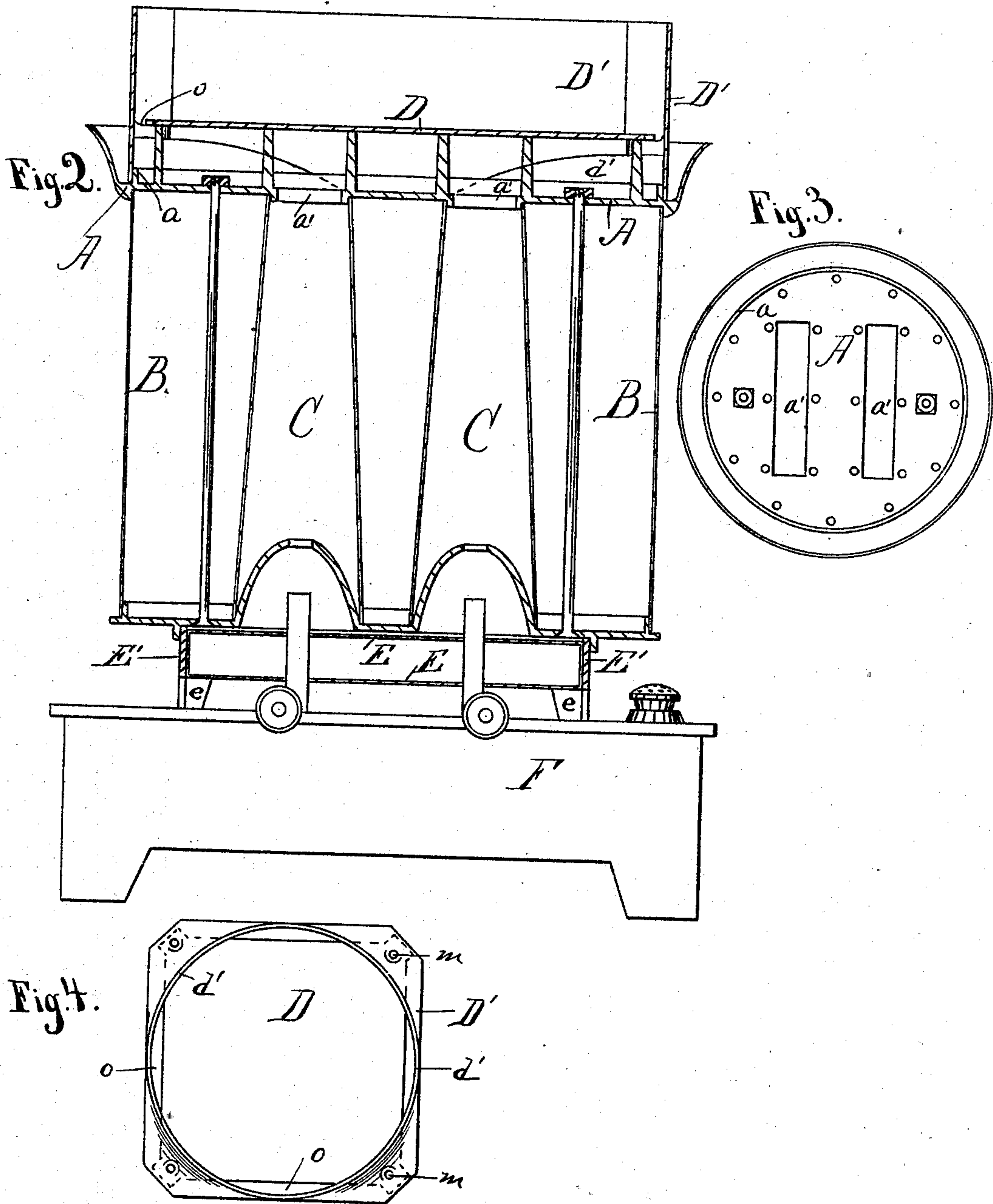
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UNITED STATES PATENT OFFICE.

ISAAC F. KEARNS, OF CHICAGO, ILLINOIS.

FLAT-IRON ATTACHMENT FOR OIL-STOVES.

SPECIFICATION forming part of Letters Patent No. 272,059, dated February 13, 1883.

Application filed December 2, 1882. (No model.)

To all whom it may concern:

Be it known that I, ISAAC F. KEARNS, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Oil-Stoves, of which the following is a specification.

This invention relates to the construction of flat-iron heating attachments for oil-stoves, and is designed to cheapen such attachments and render them more efficient; and the invention consists in the novel features herein-after particularly set forth.

In the drawings accompanying this specification and forming part thereof, Figure 1 is a view in perspective of my improved oil-stove. Fig. 2 is a central vertical section thereof on a plane transverse to that of the burners. Fig. 3 is a plan of the stove with the flat-iron heating attachment shown in Figs. 1 and 2 removed. Fig. 4 is a bottom view of the flat-iron heating attachment detached.

A represents the cast-iron top of the stove. It is preferably provided with openings *a'* over the chimneys C and not elsewhere, as thereby the heat is concentrated, and with my particular flat-iron attachment great efficiency is secured.

B is the usual surrounding drum, and *c* are windows in the chimneys. The latter I prefer to leave unclosed when used with the close drum and the top described.

In connection with this stove I use a flat-iron attachment of novel construction, consisting of a flat horizontal plate, D, and a surrounding rim, D', of square form, with rounded corners, or round or many-sided form, said rim terminating below the plate in a circle, *d'*, conforming in diameter to the upwardly-projecting rim *a* of the stove-top. This formation of the rim D' affords surfaces at the corners of the plate whereon said plate may rest, and to which it may be secured by rivets *m*. The plate being square, it will be seen that spaces *o* are left at each side thereof and within the rim, through which the heat-currents may pass off after impinging against the bottom of the plate. The flat-irons are placed upon this plate and are left uncovered at all times. I find by actual trial that irons can be heated

by the use of this attachment more quickly and perfectly than by the attachments heretofore used, and its cost to the manufacturer is less by a very large proportion. But little of the irons is exposed to be blackened by the smoke.

While this attachment is capable of use with stoves of the ordinary construction, it has a peculiar adaptation to the stove-top I have already described, because with the latter all the heated currents are compelled to do duty, whereas in other stoves the openings in the top of some of them are so near the outside as to register with the spaces *o* in the attachment, whereby much of the heat would be wasted.

The air-box of the stove consists of the two perforated plates E E and the surrounding sides E', supported by legs *e* upon the oil-reservoir F. Other air-boxes may be used, however, and I reserve for a future application all claims I may be entitled to make upon the one shown. I also reserve for another application any claims to which I may be entitled upon the combination of the chimneys having unclosed windows with a close drum and top, substantially as shown herein.

The openings *o* in the heating attachment may of course be through the plate D, instead of exterior to it, and said plate and its surrounding rim may be varied in shape to agree with the shape of the stove upon which they are used.

I claim—

1. The combination, with the oil-stove provided with a top having openings over the chimneys only, of the flat-iron attachment described, consisting of the flat plate and the surrounding rim D' *d'*, and having the open spaces *o* between the plate and the rim for the passage of the heat-currents, substantially as set forth.

2. The flat-iron attachment for oil-stoves, consisting of the flat plate D and the surrounding rim D' *d'*, spaces *o* being provided between said plate and rim, substantially as specified.

ISAAC F. KEARNS.

Witnesses:

H. M. MUNDAY,
T. EVERETT BROWN.