(No Model.)

2 Sheets—Sheet 1.

G. W. WALKER.

STOVE.

No. 274,062. Patented Mar. 13, 1883.

Fig. 1.

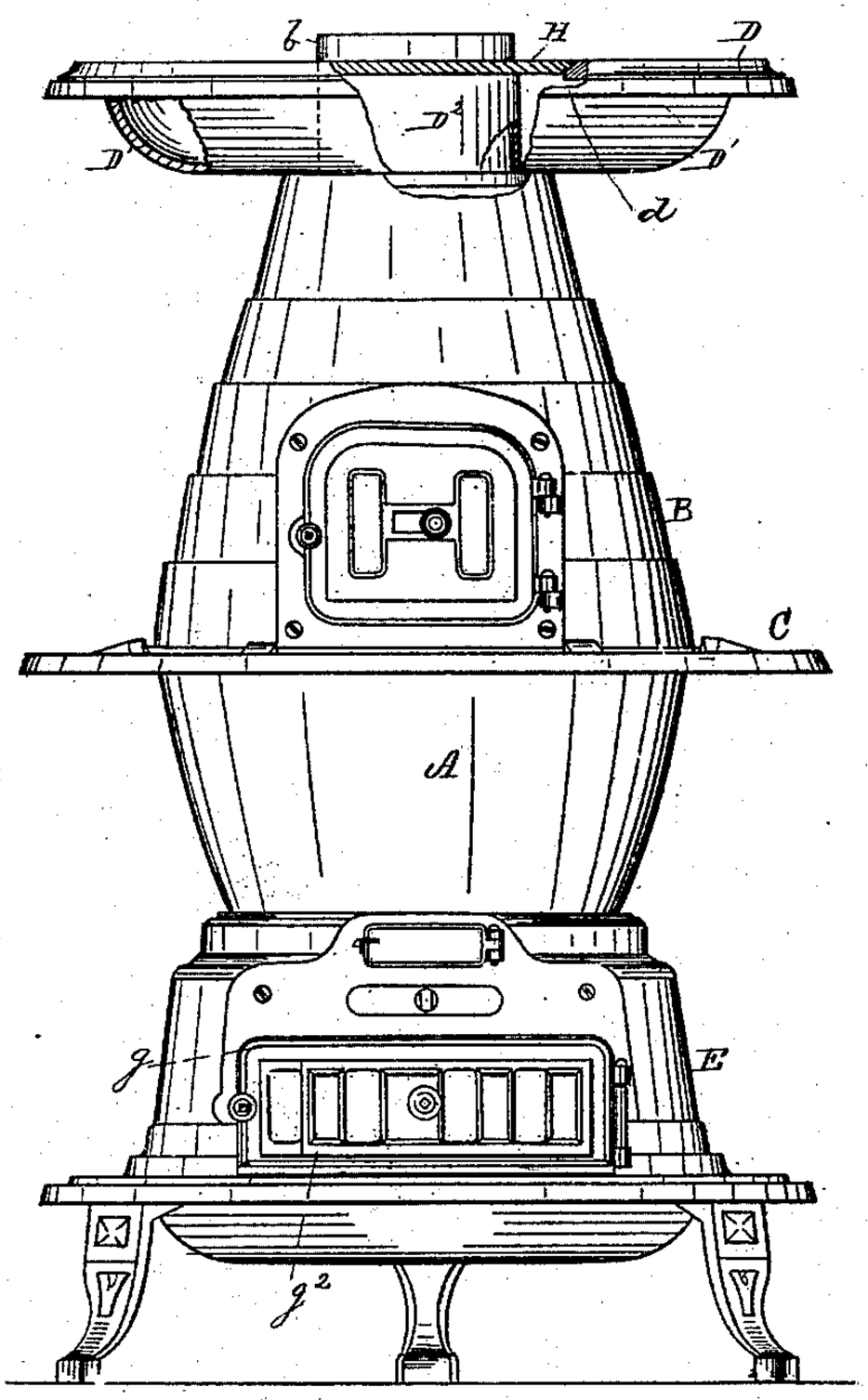
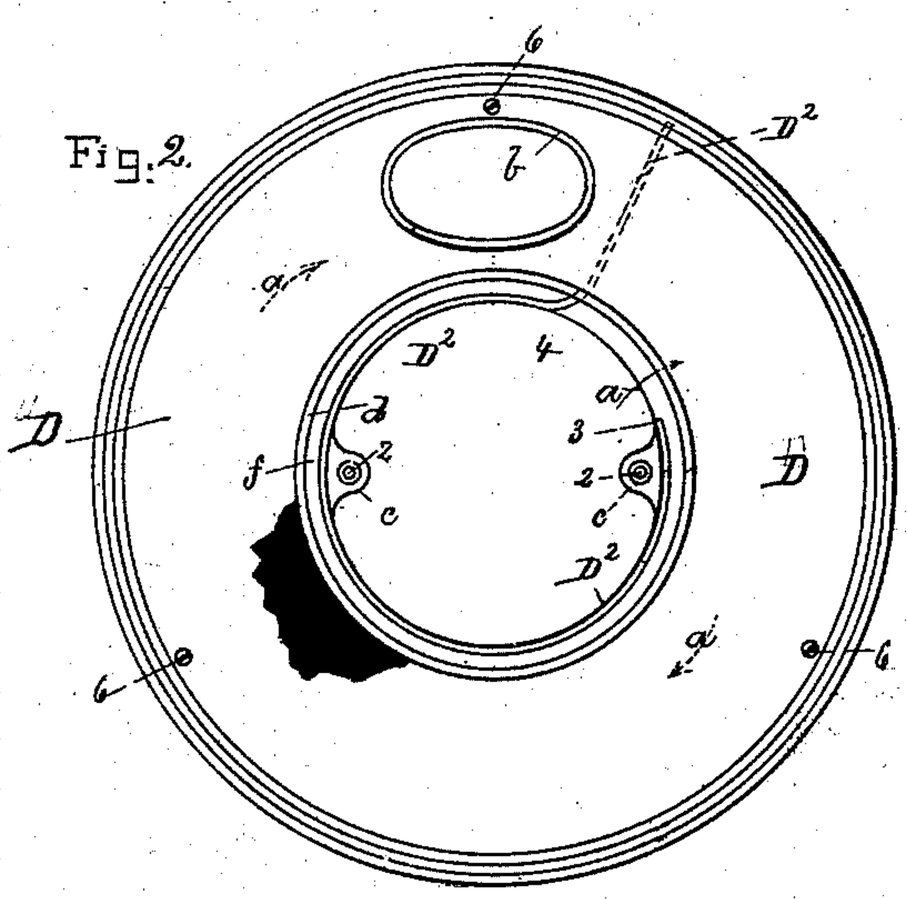


Fig. 2.



Witnesses.

Fred A. Powell

John F. C. Printzlau

Inventor.

Geo. W. Walker

by Crosby & Gregory

Attys

(No Model.)

2 Sheets—Sheet 2.

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STOVE.

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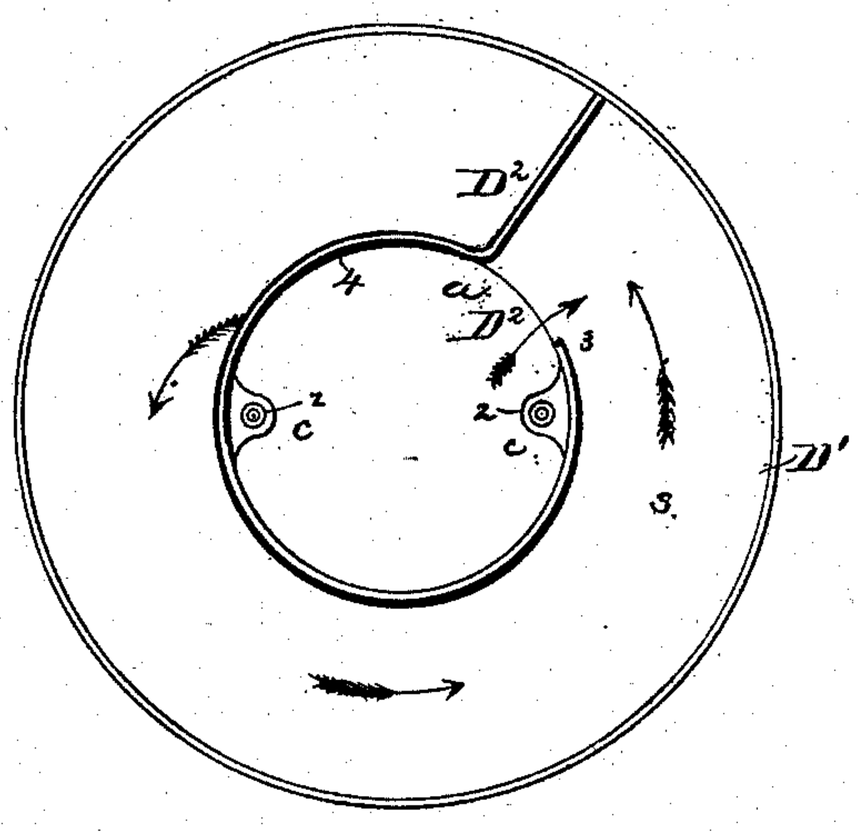
Fig. 3.



Witnesses.
Alfred F. C. Prinkert
Fred A. Powell.

Inventor.
George W. Walker.
by Crosby & Gregory
Attys.

UNITED STATES PATENT OFFICE.

GEORGE W. WALKER, OF MALDEN, MASSACHUSETTS.

STOVE.

SPECIFICATION forming part of Letters Patent No. 274,062, dated March 13, 1883.

Application filed October 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. WALKER, of Malden, county of Middlesex, State of Massachusetts, have invented an Improvement in Stoves, of which the following description, in connection with the accompanying drawings, is a specification.

My invention in stoves has for its object improvements in the construction of the top plate thereof and its flue-cover, whereby the top is made to radiate the greatest possible amount of heat in proportion to the quantity of fuel being consumed, and whereby the flue in the top plate may be readily cleaned when the lid or cover for the top plate is removed.

Figure 1 represents in front elevation a stove embodying my invention, the top plate or flue-chamber being broken out; Fig. 2, a plan view of only the top plate, the lid or cover shown in Fig. 1 in section being removed to show the upright flange or inner wall of the flue-space and the space between its upper free edge and the flange of the top plate on which the said lid or cover rests; and Fig. 3 a top view of the shell with the top plate shown in Fig. 1 removed.

The body of the stove, as herein shown, is composed of two metal cones, A B, having their larger ends connected, and provided with a central rail or fender, C.

The stove-top is composed of a top plate, D, provided with a central feed-hole, (shown open in Fig. 2,) and provided at *d* with a flange for the reception of the lid or cover H, as in Fig. 1, and a shell, D′, having a centrally-connected upwardly-extended flange, D^2, which, as shown, corresponds in diameter with the diameter of the small end of the body part B of the stove, and is made to form nearly a cylindrical prolongation of the said part B. The part D′ has ears *c*, which rest on correspondingly-shaped ears of the part B, and is secured thereto by the screws or bolts 2. The flange D^2 commences at the point 3 and runs, as herein shown, in a circle to the point 4, where it is made to flare outward and form a partition across and between the parts D D′. The top plate, D, provided with the pipe-collar *b*, is attached to the shell D′ by the screws 6. The diameter of the space between the inner circular part of the walls of the flange D^2 is herein shown as of less diameter than the feed-opening in the top plate, as seen in Fig. 2, so that the removable cover or lid H, (shown in place in Fig. 1,) as it rests with its edges on the flanges *d* of the top plate, D, substantially touches the top of the flange D^2. When the lid is added the products of combustion arising from the body of the stove pass, as indicated by the arrows *a*, into the flue-space between the flanges D^2, shell D′, and top plate, D, and, passing entirely around in the said flue-space, pass out and away through the pipe-collar *b*. The casting D D′, containing this flue-space, is larger in diameter than the top of the body part B, and thus presents a radiating-surface which extends out beyond the top of the stove, and enables the heat in the products of combustion to be more fully utilized in heating the surface of D D′, which radiates the same into the surrounding atmosphere. The space *f* left between the top of the flange D^2 and the flanged part *d* of the top plate, D, affords a space for the introduction of a poker or other stick to enable the flue-space *s* in the top of the stove to be cleaned, the soot, ashes, &c., being drawn therefrom at the end 3 of the flange D^2 and falling into the body of the stove.

The base E has pivoted or hinged to it at *g′* a door, *g*, provided with a sliding damper, g^2.

I claim—

The plate D and its removable cover H, combined with the shell D′ and its attached partition D^2, located, as shown and described, to form one side wall of the flue-space in the stove-top and to leave a passage, *f*, to clean the flue-space when the said cover is removed, as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. W. WALKER.

Witnesses:

G. W. GREGORY,

B. J. NOYES.