

E. S. SHANTZ & O. B. KEELEY.

Parlor Cook-Stoves.

No. 152,015.

Patented June 16, 1874.

Fig. 1.

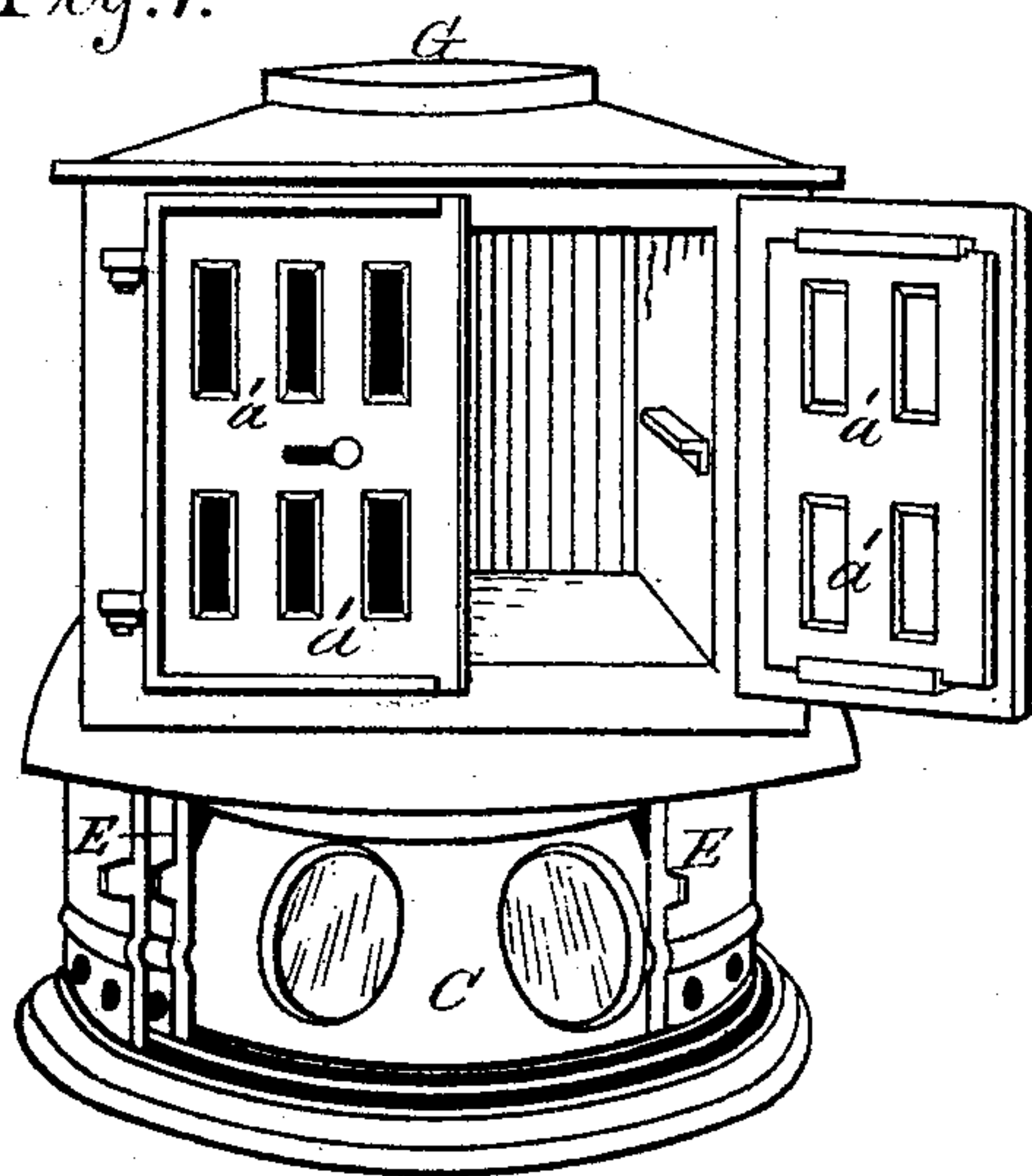


Fig. 2.

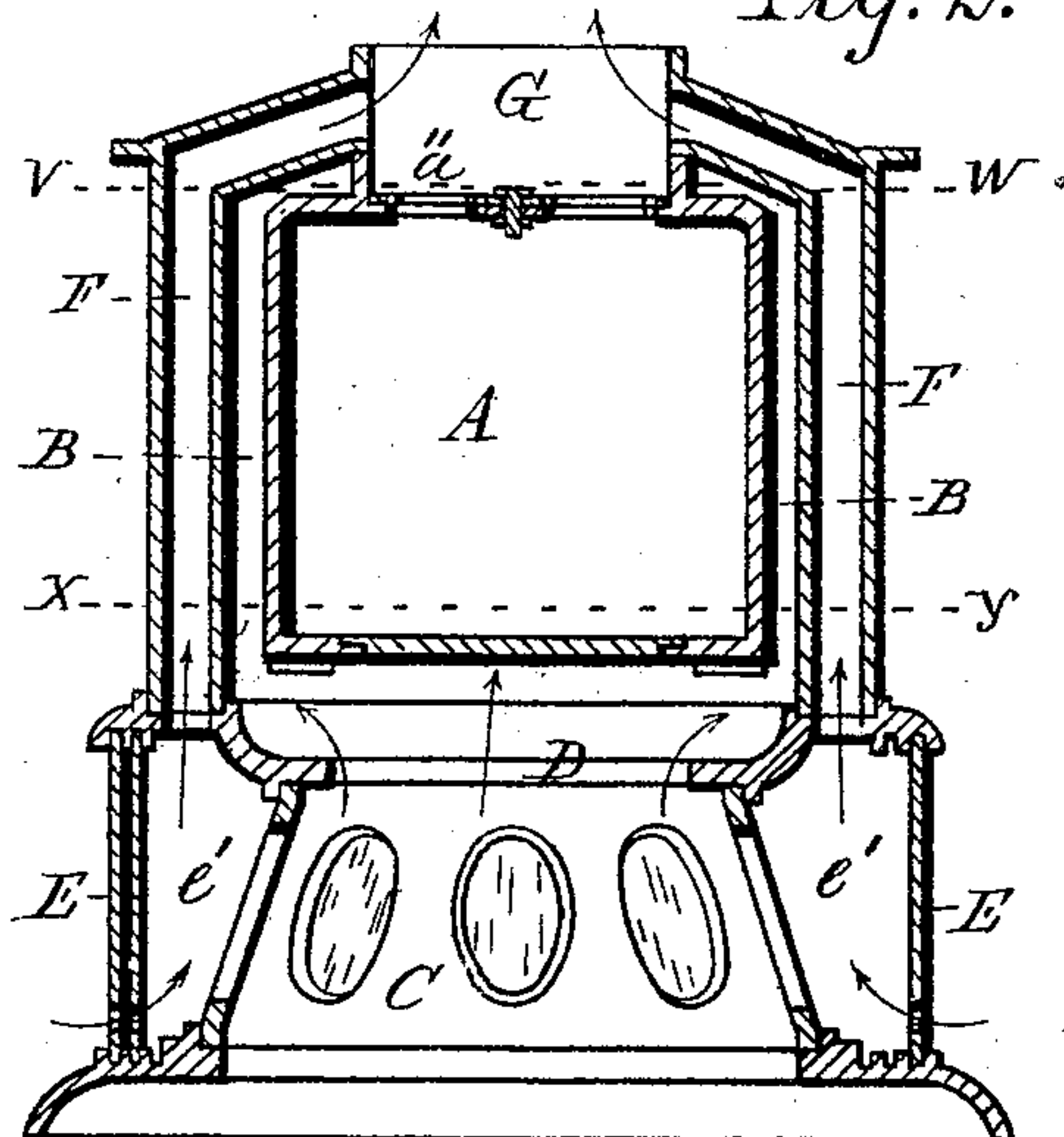


Fig. 3.

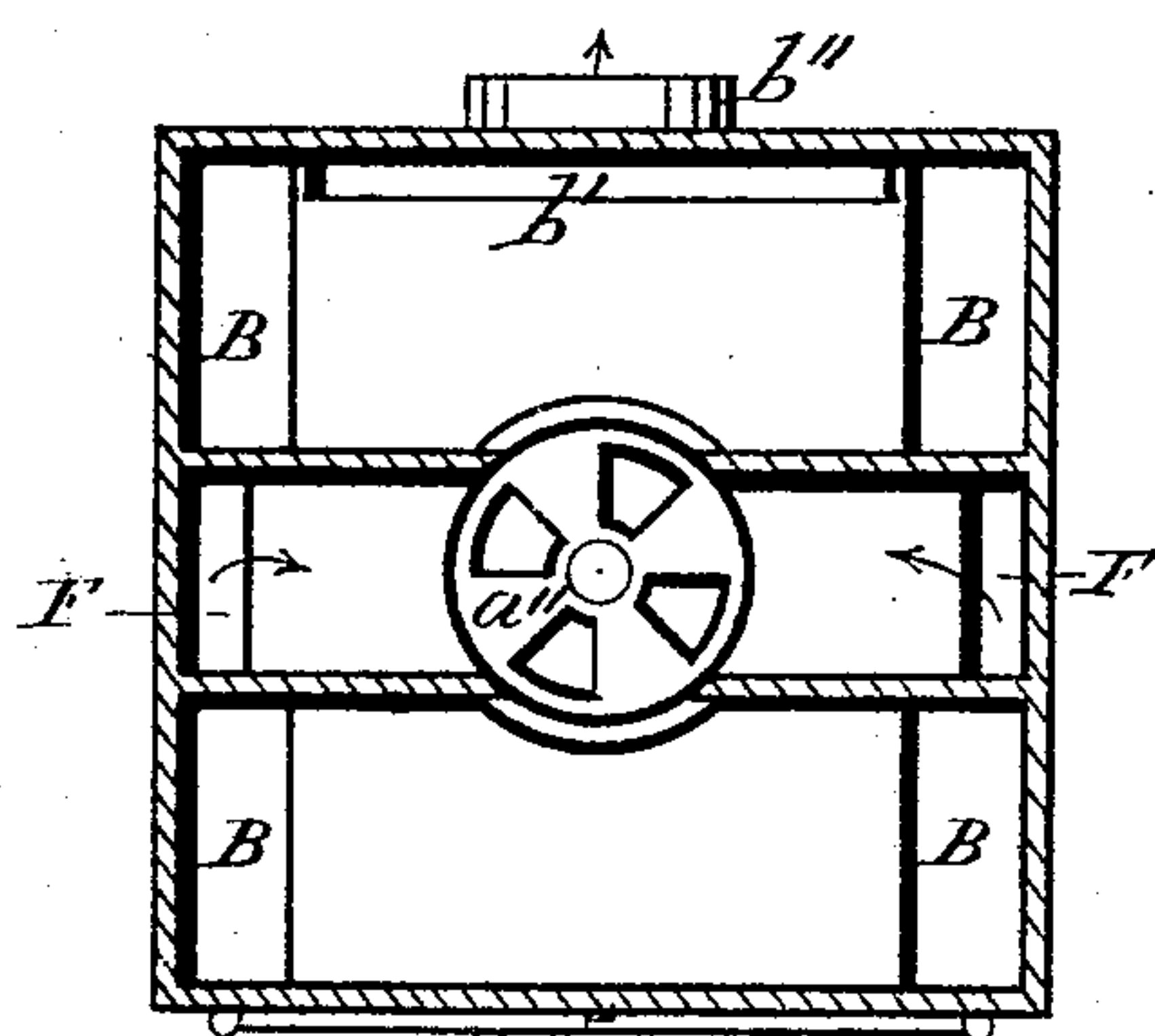
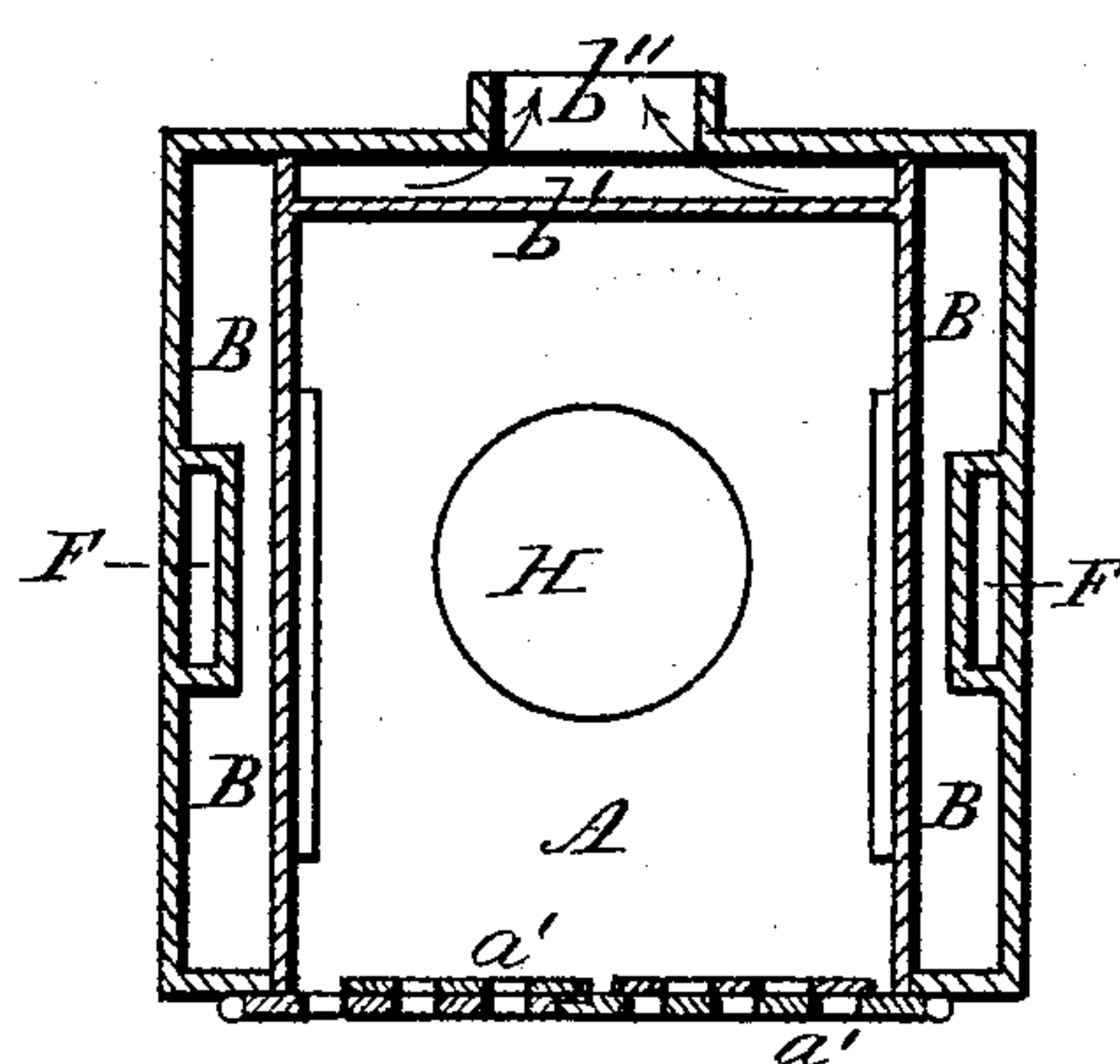


Fig. 4.



Witnesses:

Wm. H. Morrison.
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Inventors:

Enos S. Shantz & Oliver B. Keeley
per Benj. Morrison their atty. of recd.

UNITED STATES PATENT OFFICE.

ENOS S. SHANTZ AND OLIVER B. KEELEY, OF SPRING CITY, PA.

IMPROVEMENT IN PARLOR COOK-STOVES.

Specification forming part of Letters Patent No. 152,015, dated June 16, 1874; application filed April 14, 1874.

To all whom it may concern:

Be it known that we, ENOS S. SHANTZ and OLIVER B. KEELEY, of Spring City, in the county of Chester and State of Pennsylvania, have invented an Improvement in Parlor Cook-Stoves, of which the following is a specification:

The object of our invention is to render the stoves known to the trade as the parlor-cook capable of warming and transmitting air directly to the chamber or chambers above the parlor in which the said cook-stove is located, while at the same time the stove serves the purposes of warming the parlor and cooking; and this we accomplish in an effectual manner by the construction and combination, with the usual hot-gas flue-spaces at the sides and top of the oven, of air-flues, which receive air from around the outside of the usual illuminating-chamber below the oven, and discharge it warmed into a pipe leading from the top of the stove into the chamber or chambers above the parlor, as will be more fully described with reference to the accompanying drawings, in which—

Figure 1 is a front elevation of the oven in connection with the illuminating portion of a parlor cook-stove having our present invention embodied therein, together with the adjustable slides described in the Patent No. 104,274, granted to us June 14, 1870. Fig. 2 is a central vertical section of Fig. 1. Fig. 3 is a horizontal section below the dotted line *vw*, shown in Fig. 2. Fig. 4 is a horizontal section below the dotted line *xy*, shown in Fig. 2.

The usual fire-pot and its containing base are not shown, because they have not any particular or peculiar relation to our present invention for transmitting warmed air to the chamber or chambers above the parlor.

The front doors of the oven *A* are each provided with a series of adjustable slide-openings, *a' a'*, and the top of the oven with a registered opening, *a''*, for the purpose of transmitting the warmed air of the oven, when not in use for cooking, to the room or rooms above. The flues *B B* conduct the hot products of combustion directly from the illuminating-chamber *C* upward between the sides of the oven *A* and the outside casing or walls opposite to the same, respectively, and thence

over the top plate of the oven to a diving-flue, *b'*, corresponding in width with the width of the back plate of the oven, and descending to the depth of the same, where it closes, a round opening being made through the center of the back plate or outer wall, which communicates with the exit-pipe *b''*, which leads to the chimney, (not shown,) thus heating the right and left sides, the top, and the rear side of the said oven, the under side or bottom of the said oven being heated by the illuminating-chamber *C*. The annular plate *D* rests immediately upon the illuminating-chamber *C*, and its outer edge extends beyond the outer walls far enough to afford running grooves for the upper edges of the adjustable slides *E E*, which are intended to afford either a closed or open space, *e'*, around the illuminating-chamber *C*, as described in our said Patent No. 104,274. Within the two side flues *B B*, respectively, there are two air-heating flues, *F F*, which are not more than about one-third the width of the containing-flues *B B*, and their respective lower ends open through the projecting rim of the annular plate *D* into the air-space *e'* around the illuminating-chamber *C*, while their respective upper ends extend by an inwardly-inclined extension over the top of the oven *A* and open into the pipe *G*, which extends from the register *a''* in the top of the said oven through the ceiling of the parlor (not shown) to the room or rooms above. The bottom plate of the oven has the usual opening and covering plate *H*, for access to the fuel-pot when desired. It will be understood without further description that the air-warming flues *F F*, being within the gas-conducting and consequently strongly-heated flues *B B*, will be heated nearly to the same degree, and that the air from *e'* immediately around the illuminating-chamber, especially when the space *e'* is inclosed by the slides *E E*, will be partially warmed therein, and then rapidly heated as it passes through the flues *F F* to the pipe *G*, which conveys it to the chamber or chambers above the parlor, and that when the oven *A* is not in use for cooking, if the slides *a' a'* in the doors of the oven, and the register *a''* in the top of the same, be opened, the air warmed in said oven will also ascend the warm-air pipe *G* to the room or rooms

above, and that if the slides E E be closed around the space *e'* at any time, the air in passing through the latter will be strongly heated before it passes up the flues F F. In consideration of the above it will be evident that the parlor cook-stove can be readily made available for furnishing thoroughly warmed air for rooms above the parlor without materially lessening its cooking function and ability for warming the air of the containing room or parlor.

We claim as our invention—

The combination, in a parlor cook-stove

adapted to transmit warm air to the room or rooms above the parlor, substantially as described, of the adjustable slides E E, and the chamber *e'* inclosed thereby, with the air-warming flues F F in contact with the air-heating flues B B, the said parts being constructed and arranged in relation to each other as and for the purpose set forth.

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Witnesses:

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