

E. E. TAYLOR.
STOVE.
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1,175,666.

Patented Mar. 14, 1916.

Fig. 1.

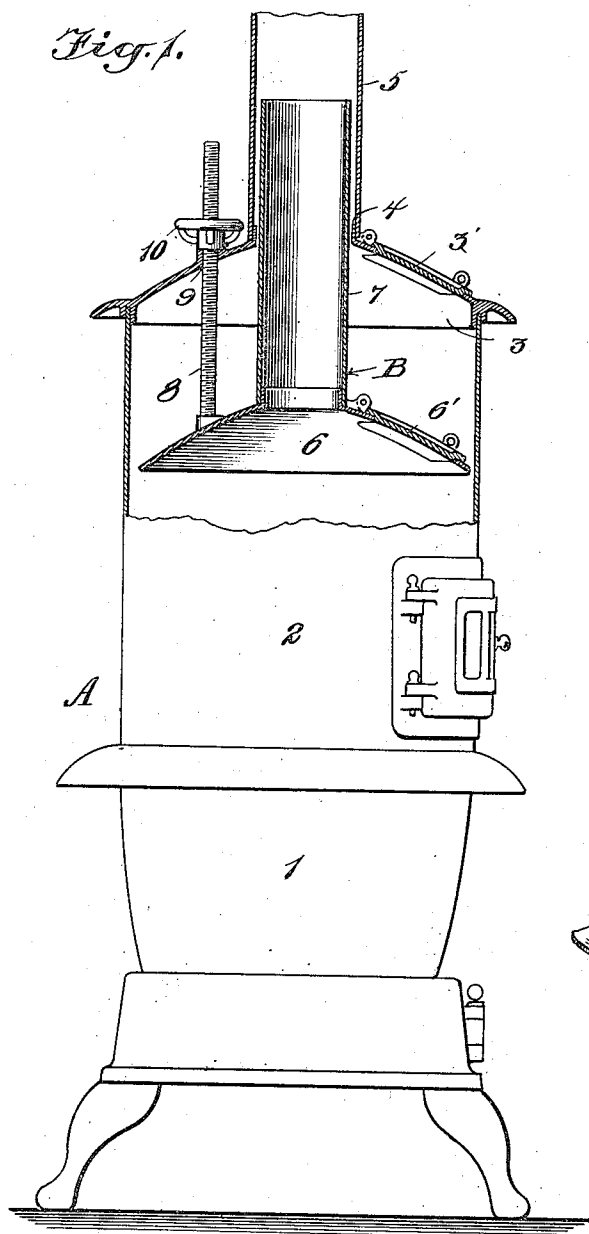
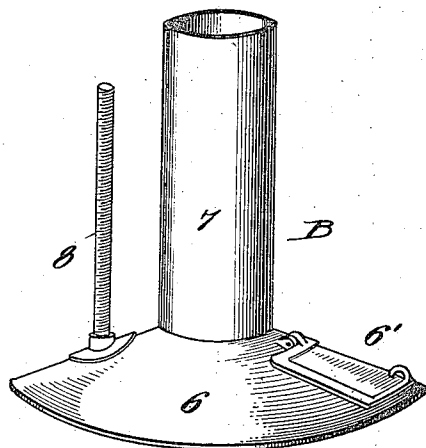


Fig. 2.



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ELMER E. TAYLOR, OF ST. LOUIS, MISSOURI.

STOVE.

1,175,666.

Specification of Letters Patent.

Patented Mar. 14, 1916.

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To all whom it may concern:

Be it known that I, ELMER E. TAYLOR, a citizen of the United States, and a resident of St. Louis, Missouri, have invented a new and Improved Stove, of which the following is a full, clear, and exact description.

This invention relates to heating stoves and has to deal more particularly with means whereby the stove can be readily adjusted as to its heating capacity according to seasonal or diurnal changes in temperature.

The invention has for its general objects to provide a device in the nature of a false top arranged within the upper portion of the stove and adjustable toward and from the fire in the fire-box so as to vary the capacity of the combustion chamber, the said false top having suitable means for adjustment and also means for forming a continuation of the smoke flue for conducting off the smoke and gases.

A further object of the invention is the provision of a device in the nature of an attachment capable of use in connection with any ordinary stove and which is of simple, durable and substantial design.

With such objects in view, and others which will appear as the description proceeds, the invention comprises various novel features of construction and arrangement of parts which will be set forth with particularity in the following description and claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention and wherein similar characters of reference indicate corresponding parts in both the views, Figure 1 is a side view of the stove with the upper portion broken away to illustrate the attachment; and Fig. 2 is a perspective view of the attachment removed.

Referring to the drawing, A designates a stove of any approved construction, which has a fire-box portion 1, a combustion chamber section 2 and a top 3, which latter has an open neck 4 for connection with the smoke flue 5, and also in the top is an opening closed by a hinge door 3' whereby coal can be supplied to the stove or access to the interior had.

The attachment B, whereby the capacity of the combustion chamber can be varied, consists of a frusto-conical member 6 which is of the same general shape as the top of the stove so as to fit against the under side there-

of, and secured to the member 6 which has a central opening is a flue 7 fastened at such opening, and the upper end extends into the smoke flue of the stove. The bottom edge of the member 6 is in close proximity to the wall of the combustion chamber of the stove, but sufficient clearance is provided to permit of free vertical movement of the device, and also the flue 7 extends freely into the smoke pipe of the stove so as to conduct off the products of combustion, and sufficient clearance is provided between the flue and smoke pipe that any gas or smoke that accumulates on the upper side of the member 6, when the latter is in lowered position, can be drawn off by the draft through the smoke pipe. The member 6 has a door 6' in line with the door 3'. The attachment is supported in the stove by means of a screw which passes through an opening 9 in the top of the stove, and is fastened to the member 6, and on this screw is a nut or equivalent device, the turning of which will move the screw up and down and thereby adjust the position of the attachment to vary the effective capacity or size of the combustion chamber. Obviously, by adjusting the attachment toward or from the coals or fuel in the stove, a small or large fire can be obtained, according to the need for heat.

From the foregoing description taken in connection with the accompanying drawing, the advantages of the construction and method of operation will be readily understood by those skilled in the art to which the invention appertains, and while I have described the principle of operation, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made when desired as fall within the scope of the appended claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. The combination of a stove including a fire-box, a combustion chamber, and a smoke conduit, with a device mounted in the combustion chamber and movable therein to vary the effective capacity of the chamber, and including a flue extending into the smoke conduit.

2. The combination of a stove including a fire-box, a combustion chamber, a top, and a smoke conduit connected with the top, with

in attachment comprising a member extending across the combustion chamber and formed with an opening, a flue connected with the member at the opening and extending upwardly therefrom into the smoke conduit, and a device serving to suspend the attachment from the top of the stove and for adjusting the position of the attachment.

10 3. The combination of a stove including a combustion chamber, a top having a smoke opening, and a smoke conduit, with an attachment for varying the capacity of the combustion chamber, said attachment 15 comprising a frusto-conical member with its peripheral edge slightly spaced from the wall of the combustion chamber to permit of vertical movement, said member having an opening, a flue connected with 20 the member at the opening and extending upwardly into the smoke flue, with a slight space between the flue and conduit, and means for adjustably positioning the attachment in the stove.

4. The combination of a stove including a 25 combustion chamber, a top having a smoke opening, and a smoke conduit, with an attachment for varying the capacity of the combustion chamber, said attachment comprising a frusto-conical member with its pe- 30 ripheral edge slightly spaced from the wall of the combustion chamber to permit of vertical movement, said member having an opening, a flue connected with the member at the opening and extending upwardly into 35 the smoke flue, with a slight space between the flue and conduit, means for adjustably positioning the attachment in the stove, said top and member having alining open- 40 ings, and doors for the openings.

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

ELMER E. TAYLOR.

Witnesses:

WYLLIE TAYLOR,
CLARA TAYLOR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."