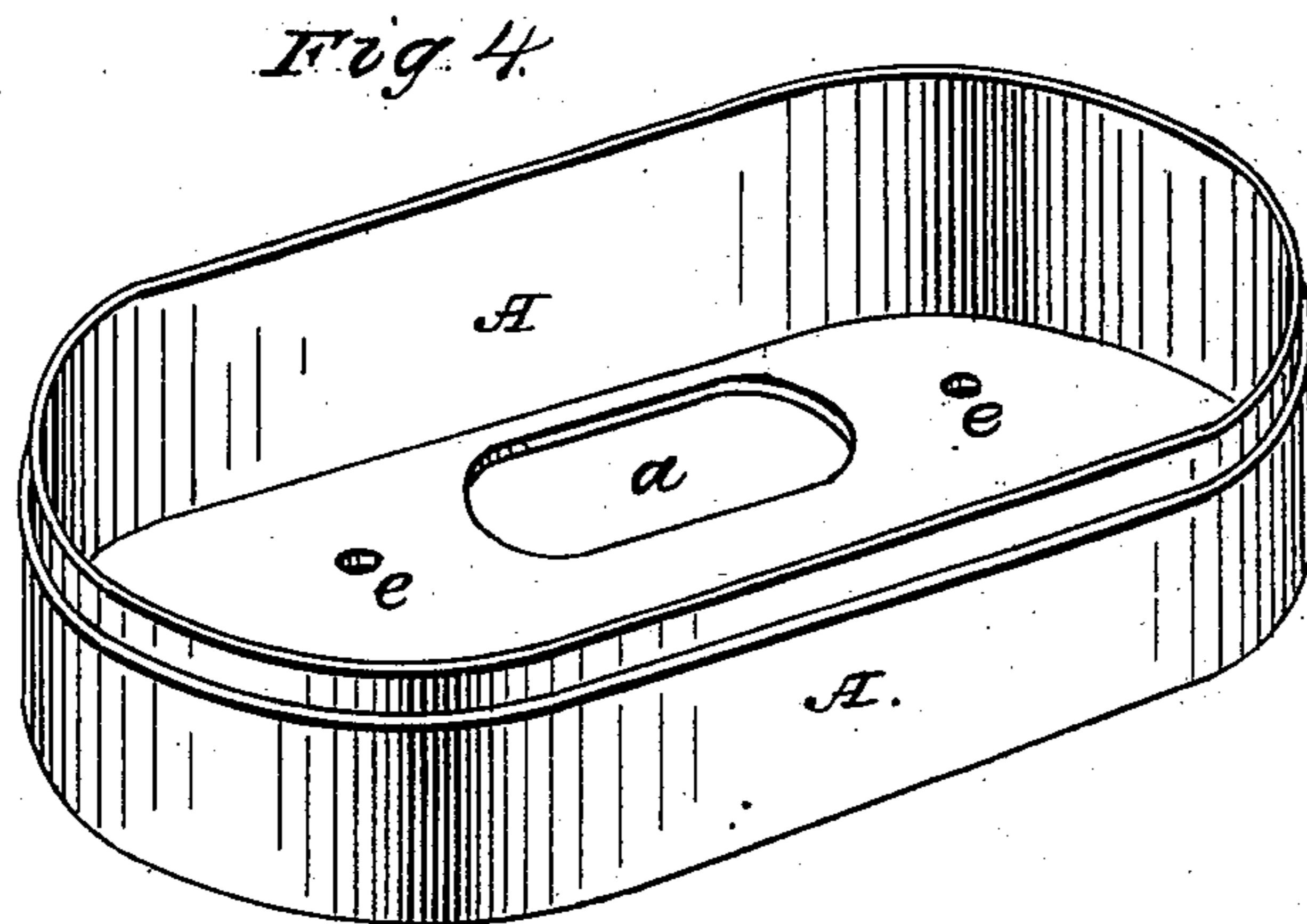
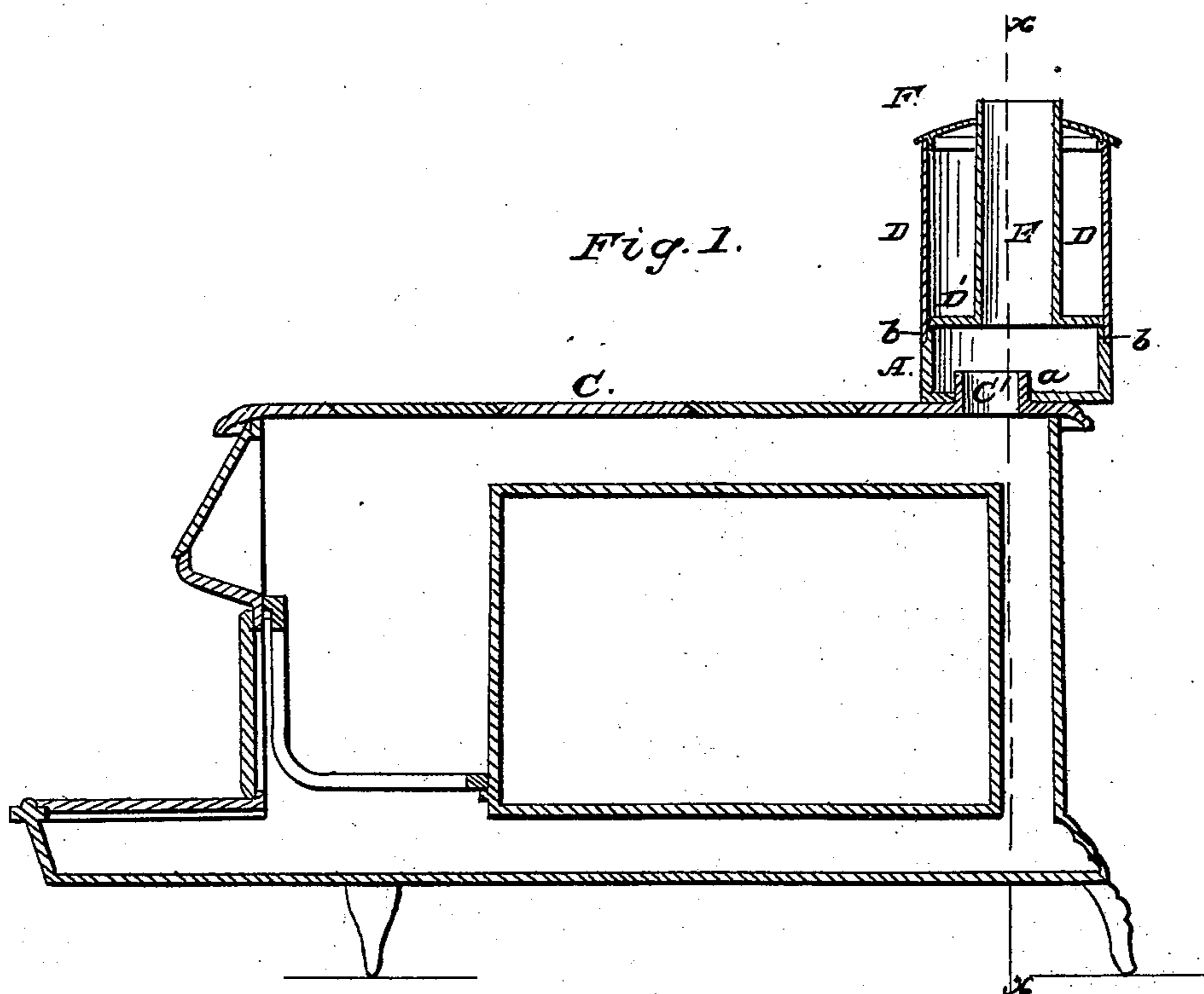


G. TENNIE.
Stove Reservoir.

No. 76,675.

Patented April 14, 1868.



Witnesses;
R. H. Campbell
Edu Schaefer

Inventor;
G. Tennie
by
Wm. Throckmorton

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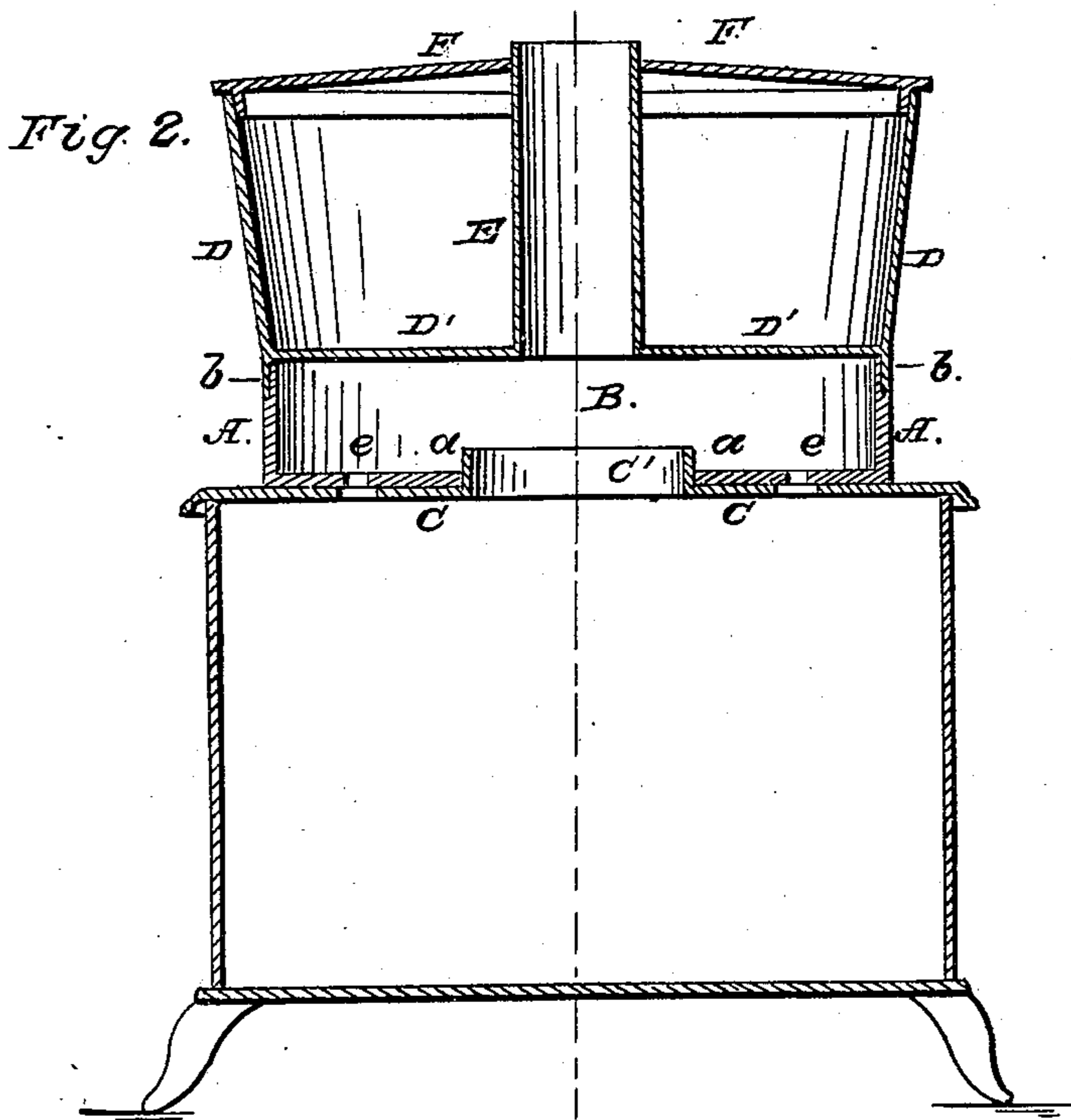
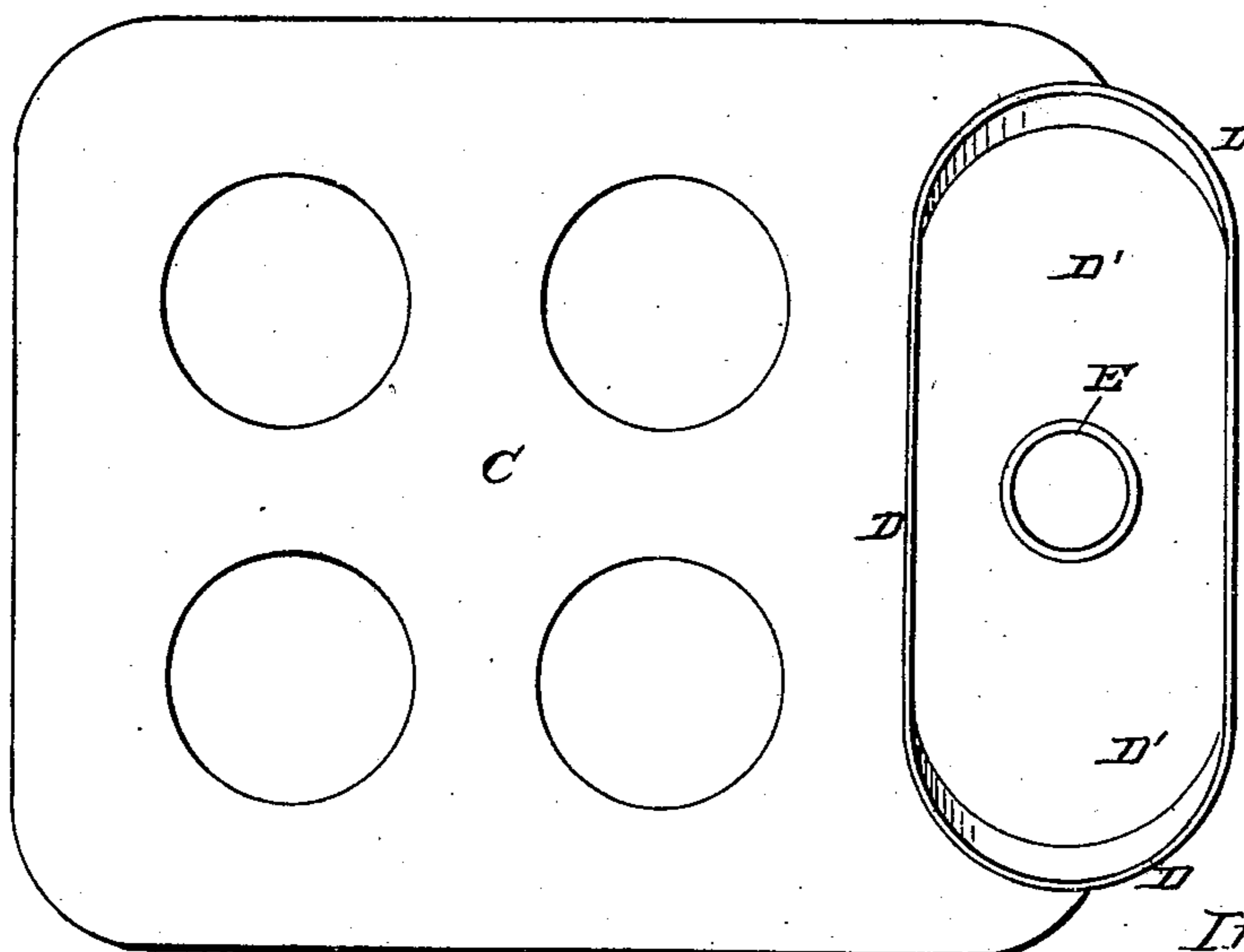


Fig 3.



Inventor,
G. Tennie
by
Mason, Church & Gammon

United States Patent Office.

GOTTFRIED TENNIE, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO
FRANK S. BISSELL.

Letters Patent No. 76,675, dated April 14, 1868.

IMPROVEMENT IN HOT-WATER TANKS FOR STOVES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GOTTFRIED TENNIE, of Pittsburg, in the county of Allegheny, and State of Pennsylvania, have invented a new and improved Mode of Adapting Hot-Water Tanks for Short-Top Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a section taken vertically and longitudinally through the centre of a common short-top stove, having my improved tank applied to it.

Figure 2 is a vertical transverse section through fig. 1, as indicated by line X.

Figure 3 is a top view of a short-top stove and my improved tank-attachment.

Figure 4 is a perspective view of the base of the tank.

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

The object of this invention is to so construct a hot-water tank that it can be conveniently and economically applied to and used upon all of the common forms of cooking-stoves known as "short-top" stoves, in contradistinction to what are denominated "extension-top" cooking-stoves. The difference between the two kinds of stoves above mentioned is, that an extension-top stove has a flue-space extended in rear of the oven, far enough to have fitted upon it a hot-water tank, through which tank a pipe or flue is usually carried for conducting off the products of combustion. The top of a "short-top" cooking-stove does not extend back of the oven, and consequently no provision is made for having a water-tank permanently located upon it.

The nature of my invention consists in providing for obtaining the advantages of an "extension-top" cooking-stove in a "short-top" cooking-stove, by the employment of a box, of a suitable shape and capacity, which is adapted for receiving and sustaining a flue stove-boiler, and when applied upon the stove over the collar of the pipe-hole, forming a chamber beneath the bottom of the boiler for the circulation of the heated products of combustion in their escape to the smoke-pipe or flue of the boiler, as will be hereinafter described.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings, I have represented my invention applied to a well-known form of "short-top" cooking-stove, the top plate, C, of which has a collar, C', surrounding the pipe-hole, in the usual manner. Upon the collar, C, is fitted a box, A, which may be made of any suitable capacity, and of any required shape. This box may be made of wrought or cast metal, with its upper end open, as shown in fig. 4, for receiving upon it the flue-boiler D. Two or more holes, *e e*, are made through the bottom of the box A, for receiving through them suitable fastenings, which may pass through corresponding holes made through the stove-top C, and secure box A down firmly in place upon this top.

The hole *a*, through the bottom of the box A, into which the collar C fits, may be made very near the front part of this box, as shown in fig. 1, and the latter allowed to project beyond the rear edge of the top plate C of the stove. Such an arrangement will admit of the use of a large boiler without occupying too large a space upon the top of the stove.

The boiler D is constructed with a flue, E, rising perpendicularly through it for receiving a smoke-flue or stove-pipe upon it above the cover F. This flue, E, may be arranged in the manner shown, or in any other suitable manner which will admit of the escape of the heated products of combustion from the chamber B, formed beneath the boiler by the box A.

In order that the boiler may be readily applied to the box A, and removed therefrom at pleasure, a flange, *b*, extends a short distance below the bottom, D', of said boiler, which flange receives the upper edge of the box A, and thus makes a tightly-fitting joint, and secures the boiler in place upon the box.

The box A serves as a means of receiving the boiler, and exposing its entire bottom to the heat of the products of combustion rising through the pipe-hole C'. After circulating through the box A, the products of combustion rise through the flue E, and communicate heat to the water in the boiler surrounding this flue. If

desirable, the box A may be made of the same shape and size, horizontally, as the boiler which is fitted upon it; or the box may be made rectangular, or of any other shape suited to the purpose, and secured down upon the top plate of the stove, over the pipe-hole, in any suitable manner.

While my invention is particularly designed for stoves which are not constructed with extension backs for receiving boilers, still the invention is applicable to such stoves.

I do not claim a boiler with a smoke or flame-flue through its body, and with a rest-flange below its bottom plate, such a boiler being very common; but while it is not new to make such a boiler, I do believe it is novel to provide an elevated support which has a hole through its bottom to allow it to be fitted round the collar of the escape-flue of the top plate of the stove, such elevated support constituting a flue-box above the top plate of a short-top stove in lieu of an extension-flue, as in the long-top stoves, and rendering it practicable to apply a boiler over the escape-flue collar of the stove; and when thus applied the arrangement is such that there is no danger of the boiler being tilted over at the back end of the stove, although its whole bottom is exposed to the circulating gases.

What I claim as my invention, and desire to secure by Letters Patent, is—

The flue-box A, made separate from a boiler, and applied around the flue-collar of a stove, so that it serves as a means whereby to support a flue-boiler above said collar of the stove, all substantially as and for the purposes described.

GOTTFRIED TENNIE.

Witnesses:

W. T. FOSTER,

JOHN CASPAR WEYMANN.