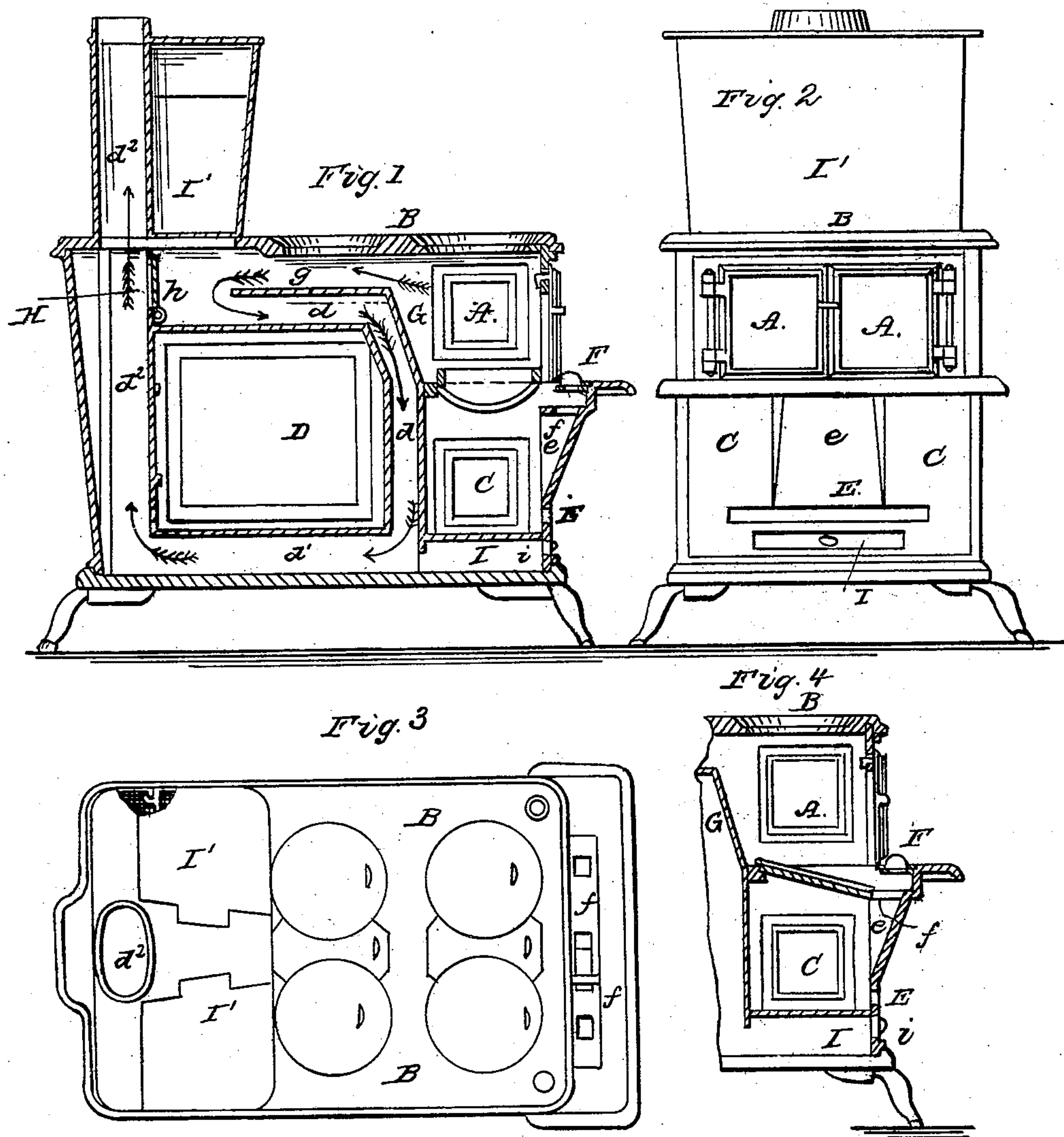


C. TEMME.
Cooking Stove.

No. 103,389.

Patented May 24, 1870.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHRISTIAN TEMME, OF ST. LOUIS, MISSOURI.

COOKING-STOVE.

Specification forming part of Letters Patent No. 103,389, dated May 24, 1870.

To all whom it may concern:

Be it known that I, CHRISTIAN TEMME, of St. Louis, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Cooking-Stoves; and I do hereby declare that the following is a full and true description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates, first, to a novel arrangement of the air-draft to the hearth of a fire of a wood-stove, or to the grating and fire-place for the coal-stove. Secondly, this invention relates to the arrangement for the distribution of the hot gases of combustion after escaping from the fire-place and passing into the flues surrounding the bake-oven and other interior compartments.

To enable those skilled in the art to make and use my said invention, I will now more fully describe the same, referring to the accompanying Figure 1 as a sectional elevation, to Fig. 2 as a front elevation, to Fig. 3 as a top plan, and to Fig. 4 as a detail section, showing the use of the wood-grate.

The general outline of the stove is, as shown in the figures, approximating to the usual forms.

A is the fire-place, immediately over which is the top plate, B, of the stove, arranged with proper pot-holes in the usual manner. Immediately under the fire-place is the ash-chamber C. In the rear of the fire-place and ash-chamber is the oven D.

In my said stove, in case wood is burned the ordinary hearth-plate is used, and in case coal is burned the basket-grating, such as may be adapted to the species of coal burned, may also be employed.

As heretofore stated to be in the nature of this invention, the air-draft to the fire-place is arranged peculiarly. The draft-opening E is placed on the lower front of the stove, communicating with the rising air-duct *e*, which discharges under the damper F. Under said damper is the air-inlet passage *f*, leading directly into the fire-place.

The bake-oven D forms within the stove a separate compartment. From the fire-back plate G there extends back horizontally the

flue-dividing plate *g*, leaving sufficient space between the same and the chimney-flue partition H to form a return-flue, *d*, over the top and front sides of the oven D. Furthermore, at the bottom of said oven and ash-chamber is the bottom flue, *d'*, connecting with the return-flue *d* and extending the entire length of the stove, connecting, finally, with the chimney-flue *d''*. A continuous flue surrounding the bake-oven is thus made through which the hot gases pass, as indicated by the arrows. (Shown in Fig. 1.)

In order to regulate the distribution of gases through their proper flues, I have arranged a damper, *h*, secured to the chimney-partition H, constructed and operated in the usual manner. When, therefore, the gases of combustion pass along the inclined grate-back G, and over the top horizontal fire-plate, *g*, in case said damper is closed, said gases are caused to return into the flues *d*, *d'*, and *d''*, surrounding the oven D, and, finally, exit through their proper chimney-flue. When, however, said damper *h* is left open, the exit or discharge of the hot gases through the damper-opening directly through the chimney takes place, as usual.

It is plain that by my arrangement of the flues surrounding the bake-oven an equalization of the heat must necessarily take place, and that many of the inconveniences and damages arising from the unequal distribution of the same is thus avoided.

To cleanse the flues from their impurities, there is in front of the stove the flue-opening I, which will be closed by a suitable flue-stopper, *i*.

In order to better utilize the heat, I have arranged a reservoir, I', on the top of the stove, having an extension-flue, (chimney,) *d''*, connecting with the chimney-flue. Said reservoir will be constructed in the usual form, having proper appurtenances thereunto belonging.

Having thus fully described my said invention, what I claim is—

1. A wood or coal stove arranged with draft-opening E, rising air-duct *e*, damper F, air-inlet *f*, in combination with the fire-place A, substantially as set forth.

2. The bake-oven D, having flues d d' d^2 , entirely surrounding the same when combined with the flue-opening I, horizontal plate g , and damper h , substantially as set forth.

3. The extension-flue d^2 , widening transversely, and arranged to be connected with the reservoir I', substantially as set forth.

In testimony of said invention I have hereunto set my hand.

CHRISTIAN TEMME.

Witnesses:

WILLIAM W. HERTHEL,
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