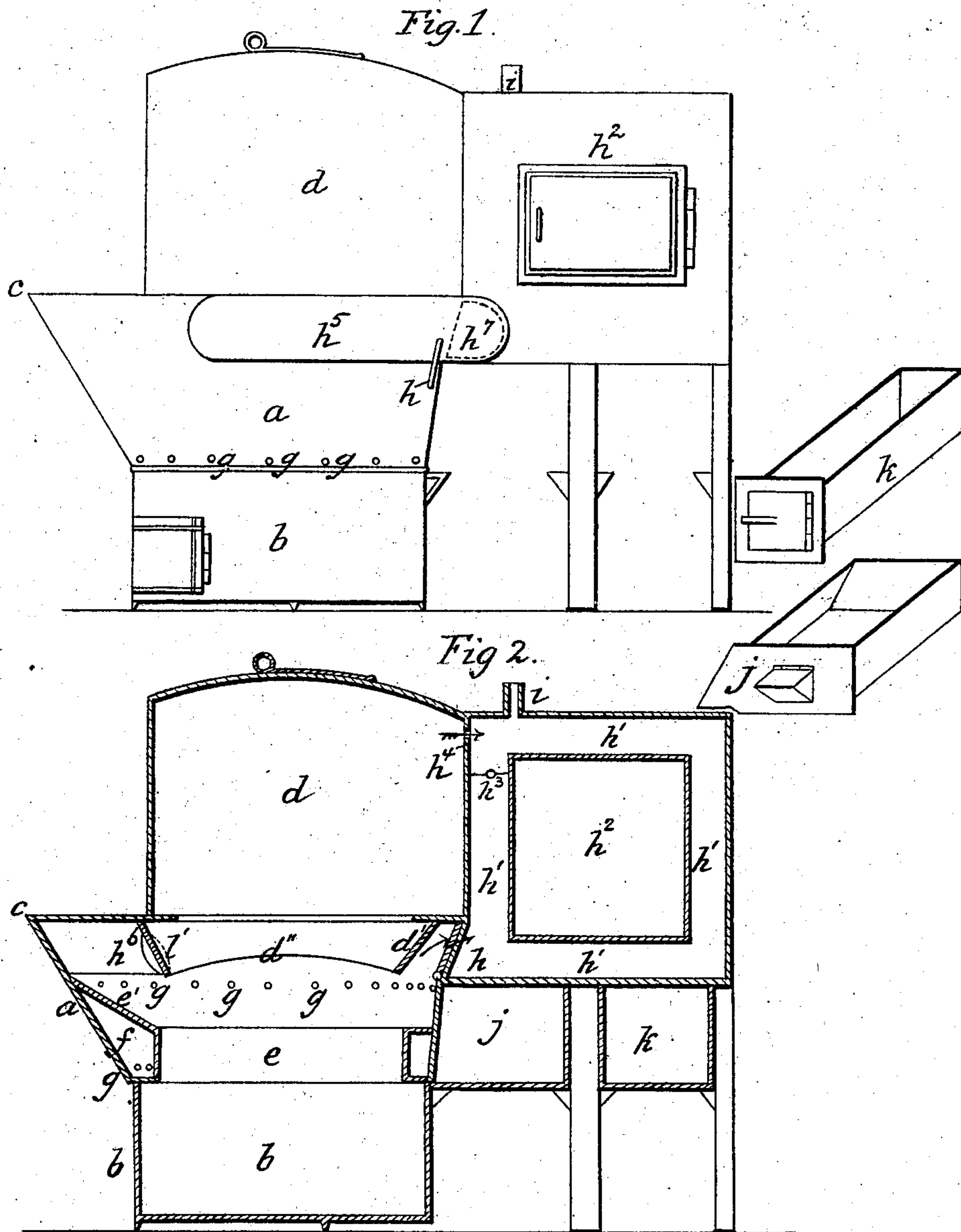


W. S. BRONSON.
Cooking Stove.

2 Sheets—Sheet 1.

No. 93,516.

Patented Aug. 10, 1869.



Witnesses
Hector Chapman.
Jenny W. Beif

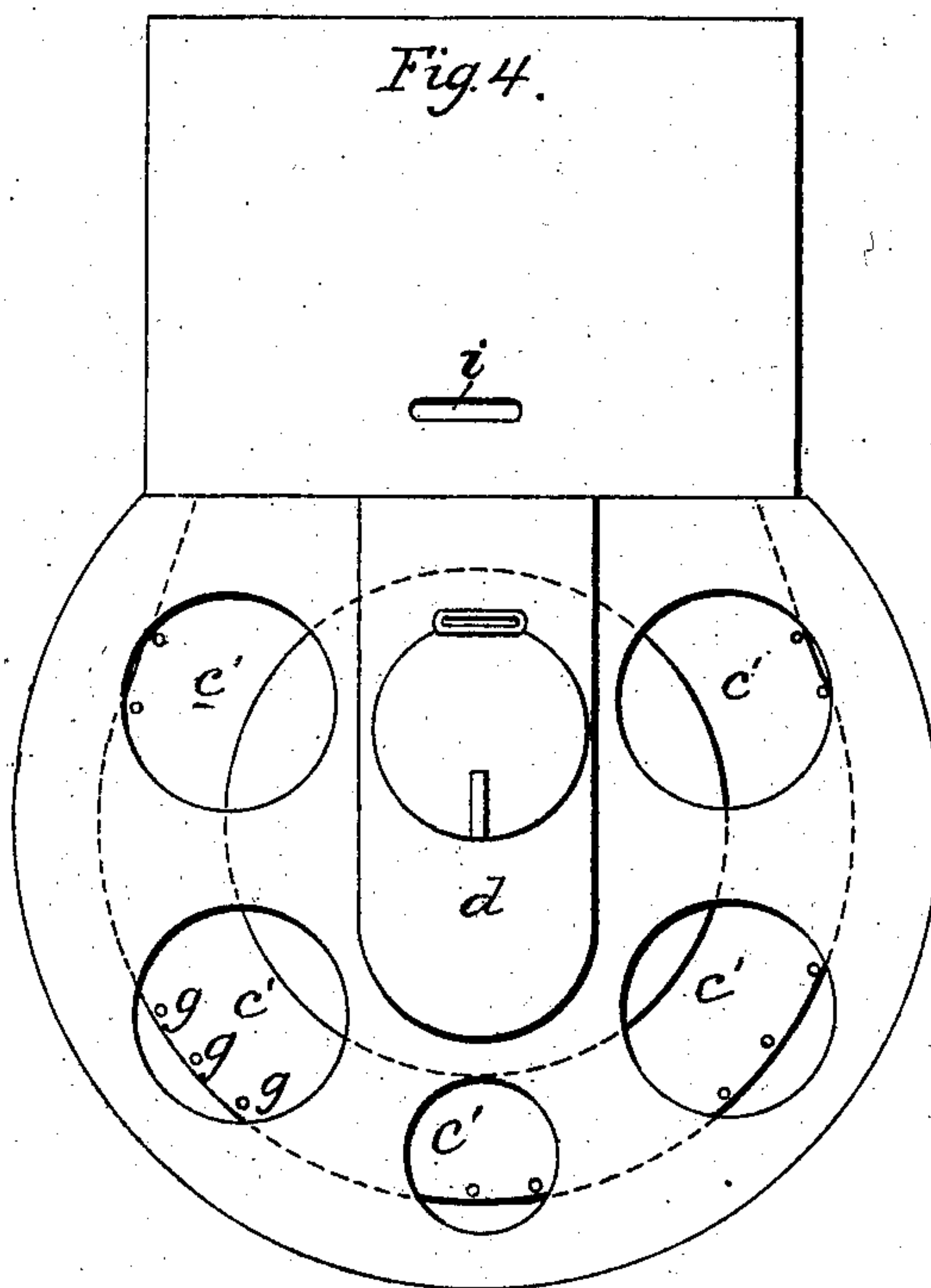
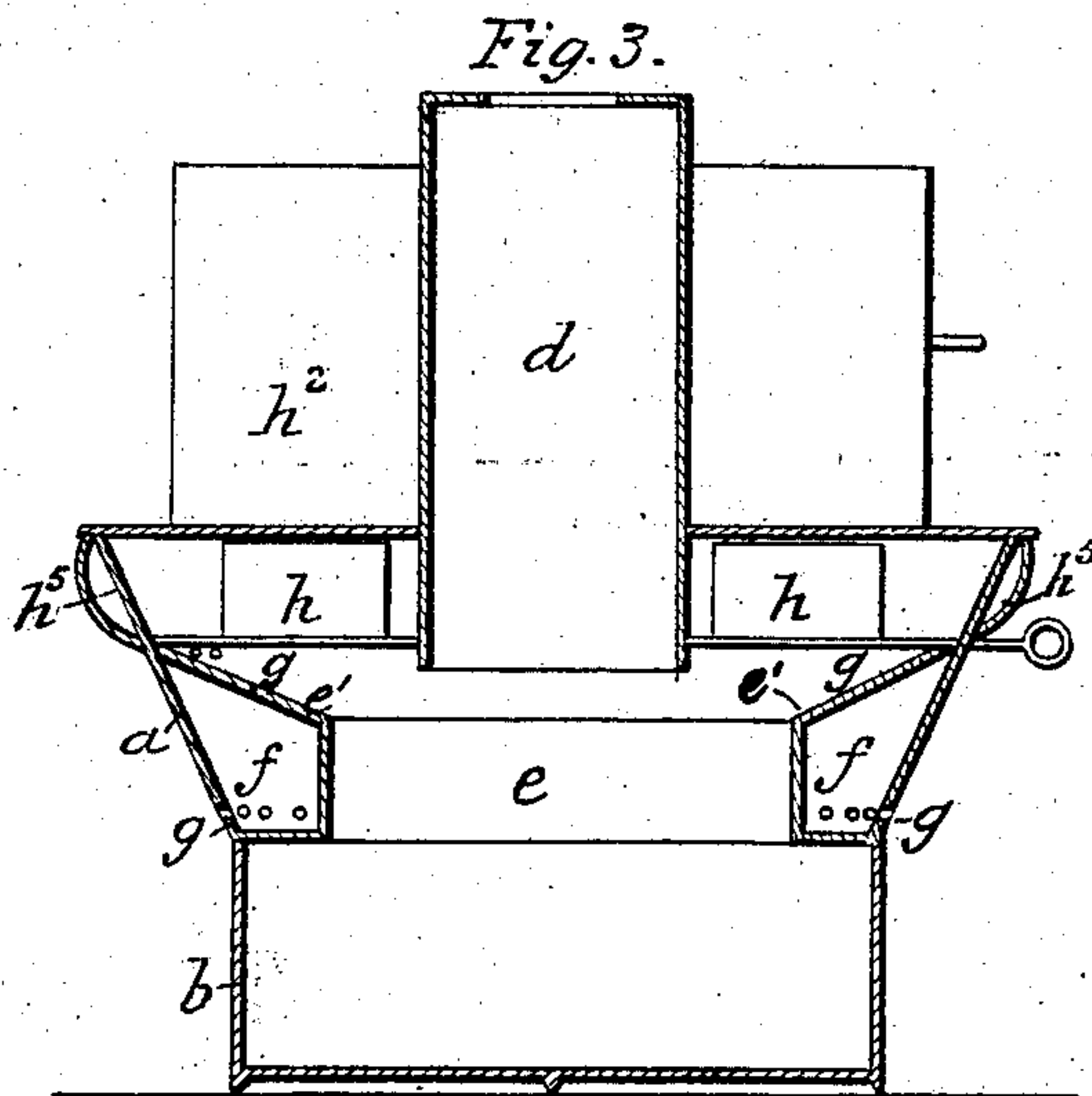
Inventor
Willis S. Bronson.

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Witnesses
Hector Chapman
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Inventor
 Philip S. Bronson.

United States Patent Office.

WILLIS S. BRONSON, OF HARTFORD, CONNECTICUT.

Letters Patent No. 93,516, dated August 10, 1869.

IMPROVEMENT IN BASE-BURNING COOK-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, WILLIS S. BRONSON, of the city and county of Hartford, and State of Connecticut, have invented certain new and useful Improvements in Base-Burning Cook-Stove or Range; and to enable others skilled in the art to make and use the same, I will proceed to describe it, referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of this invention will be fully understood from the specification and drawings, in which—

Figure 1 is a side elevation.

Figure 2 is a sectional side view.

Figure 3 is a sectional front elevation.

Figure 4 is a top view.

These four views show its exterior shape, and mode of construction.

a is the body of the stove.

b is the base or ash-box.

c is the top plate, directly over the fire-pot, provided with openings, *c'*.

d is an elongated fuel-magazine, located in the centre of the plate *c*, the lower end, *d'*, of which is formed shelving, to direct the course of the fuel to the centre of the fire-pot, the object of which is to always effect the discharge of fuel directly in the centre of the fire-pot, or as nearly so as possible, and thereby supply or replenish the fuel at the time and in the most desired point to compensate for waste by combustion.

The sides of the lower end, *d''*, are formed concave, circle-shape, to secure the rounding up of the fuel in the centre of the pot *e*.

e is the fire-pot, arranged in the centre of the body of the stove, the upper portion, *e'*, of which is of a flaring form, back to the outer wall of the stove, thus forming an air-space, *f*, between the fire-pot and the body of the stove.

Holes, *g*, are provided through the body of the stove, and through the flaring portion *e'* of the fire-pot, to allow air to enter the space *f*, and discharge itself around the fire-surface.

h is the direct-draught opening, or damper, from the fire-space into the space *h'*, formed around the oven *h²*.

h³ is a damper, designed to be used in the construction of the stove, and is located in the space *h'*, be-

tween the fuel-magazine and the oven, by the use of which the heat and smoke are caused to surround the oven in their passage to the exit-pipe *i*.

h⁴ is a damper, or opening, to allow gas to escape from the fuel-magazine into the smoke-exit.

h⁵ are flues, or smoke and gas-passages, located outside of the body of the stove, and directly under the plate *c*. Openings, *h⁶*, enter it from the fire-chamber, thence through the flue-passage, so formed, into the space *h'*, through an opening, *h⁷*, shown by dotted line, the object of which is to keep the heat directly under the boiler-holes *c'*.

j is a water-reservoir, located directly back of the fire-pot, and under the oven, for heating water, and other like purposes.

k is a hot-closet, located just back of the reservoir, and directly under the oven.

These receptacles, "reservoir" and "hot-closet," are made preferably in the form of drawers, so that they may be drawn out at will. But they may be, one or both of them, permanently attached to the stove.

The advantage of a stove, thus constructed, is believed to be of the greatest importance to a housewife.

Having thus shown the nature and construction of this invention, in such a manner as I believe will enable others skilled in the art to make the same therefrom, I will now proceed to state what I claim, and desire to secure by Letters Patent.

I claim—

1. The magazine *d*, elongated, and shelving at its bottom, substantially as set forth.

2. The arrangement of a water-reservoir, *j*, beneath the oven, and back of the fire-pot, substantially as set forth.

3. A hot-closet, *k*, arranged back of the water-reservoir *j*, and beneath the oven, substantially as set forth.

4. The arrangement of the fire-pot *e*, fuel-magazine *d*, oven *h²*, reservoir *j*, and hot-closet *k*, substantially as set forth.

5. The flues *h⁵*, arranged substantially as shown and set forth.

WILLIS S. BRONSON. [L. S.]

Witnesses:

HECTOR CHAPMAN,
JEREMY W. BLISS.