

J. S. TODD.
Heating Stove.

No. 47,670.

Patented May 9, 1865.

Fig. 1.

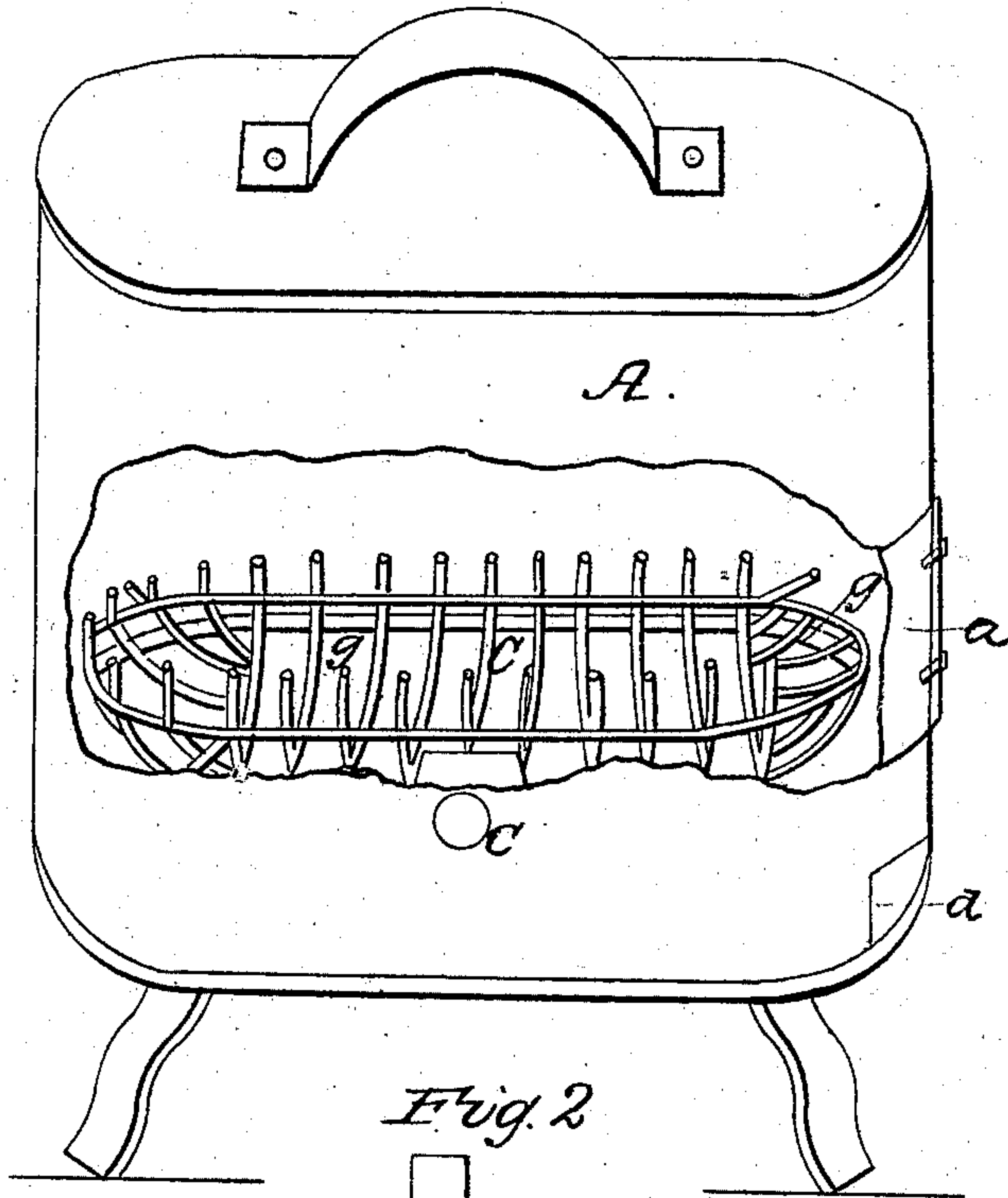
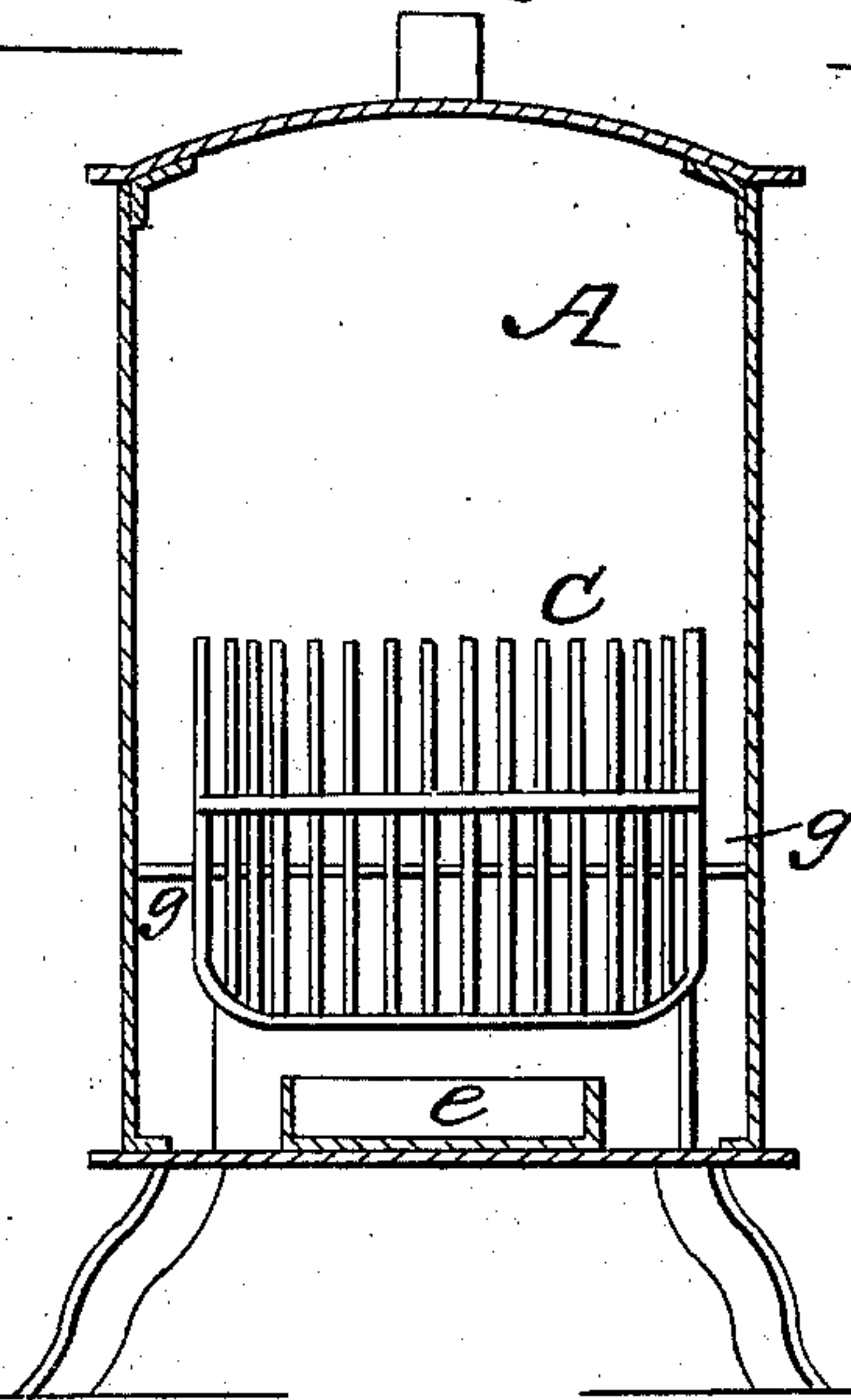


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH S. TODD, OF MACON CITY, MISSOURI.

AIR-TIGHT COAL-STOVE.

Specification forming part of Letters Patent No. 47,670, dated May 9, 1865.

To all whom it may concern:

Be it known that I, JOSEPH S. TODD, of Macon City, in the county of Macon, in the State of Missouri, have invented a new and useful Improvement in Air-Tight Coal-Burning Stoves; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is an elevation in perspective of the stove, with an opening, so as to show the position of the grate within the same. Fig. 2 is a sectional elevation of the stove.

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

I construct the wrought or sheet iron cylinder A with an opening and a door at *a* for the introduction of coal, with an opening at *b*, which can be closed by means of a slide, for the admission of air, and with an opening at *c*, also for the admission of air, and an opening at the bottom, at *d*, for the ash-pan *e*.

There should be a lining of sheet metal between the grate C and the cylinder A for the purpose of protecting the cylinder A from sulphur and other injurious components of the coal; and I construct the basket-shaped grate C of cast-iron, resting by means of legs on the bottom of A, and otherwise not touching A. There will be an annular plate of cast-iron, *g*, which connects closely with the sides of the grate C, and prevents the cold air which enters below at *b* and *c* from passing upward and to the stove pipe without reaching the burning coals.

Having thus described my invention, what I desire to secure by Letters Patent is—

The combination of an air-tight sheet-iron stove with the basket-shaped grate and the horizontal cast-iron annular plate *g*, as and for the purposes set forth.

J. S. TODD.

Witnesses:

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