

R. HAM.
Cooking Stove.

No. 89,655.

Patented May 4, 1869.

Fig. 3.

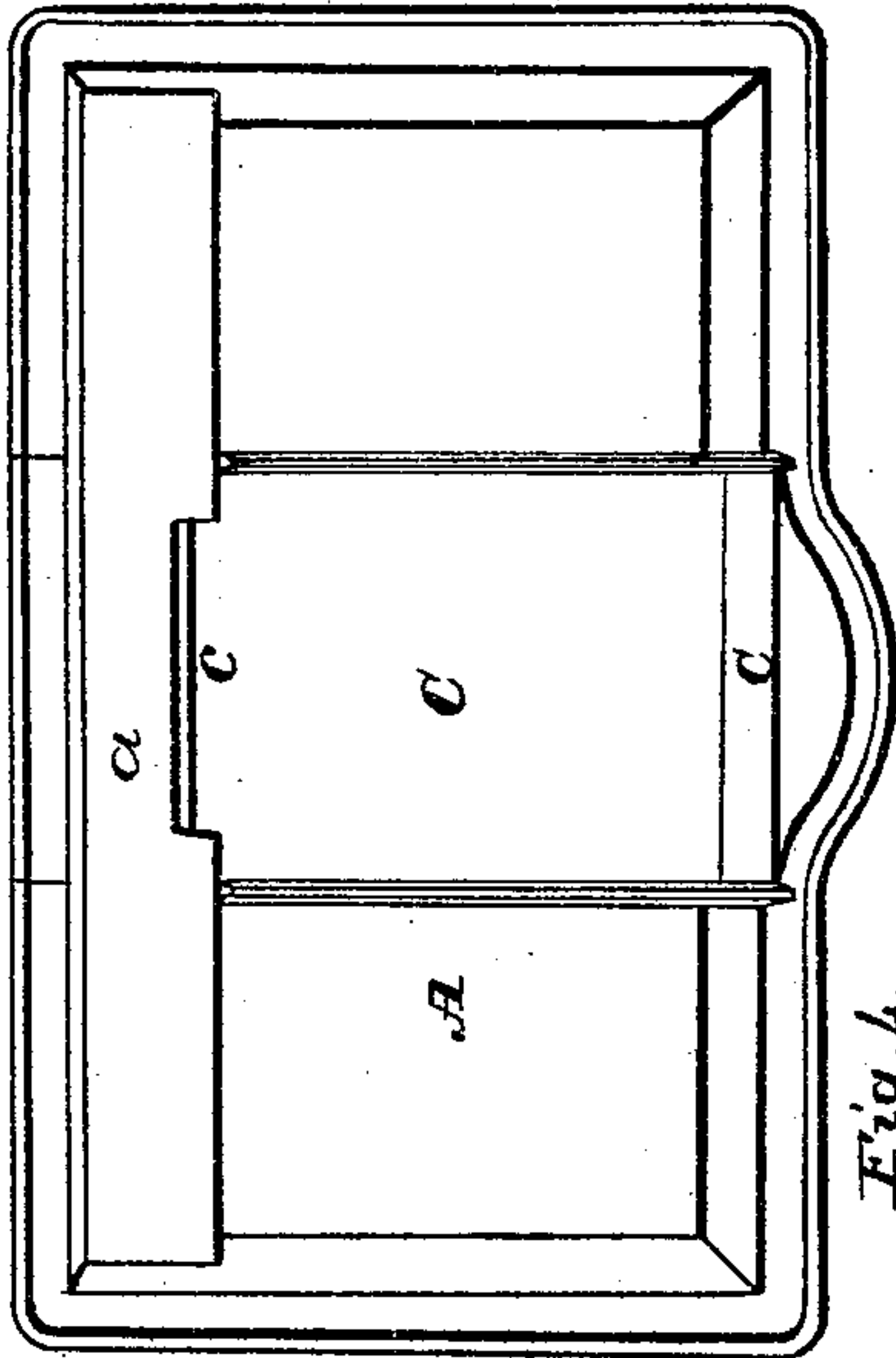


Fig. 4.

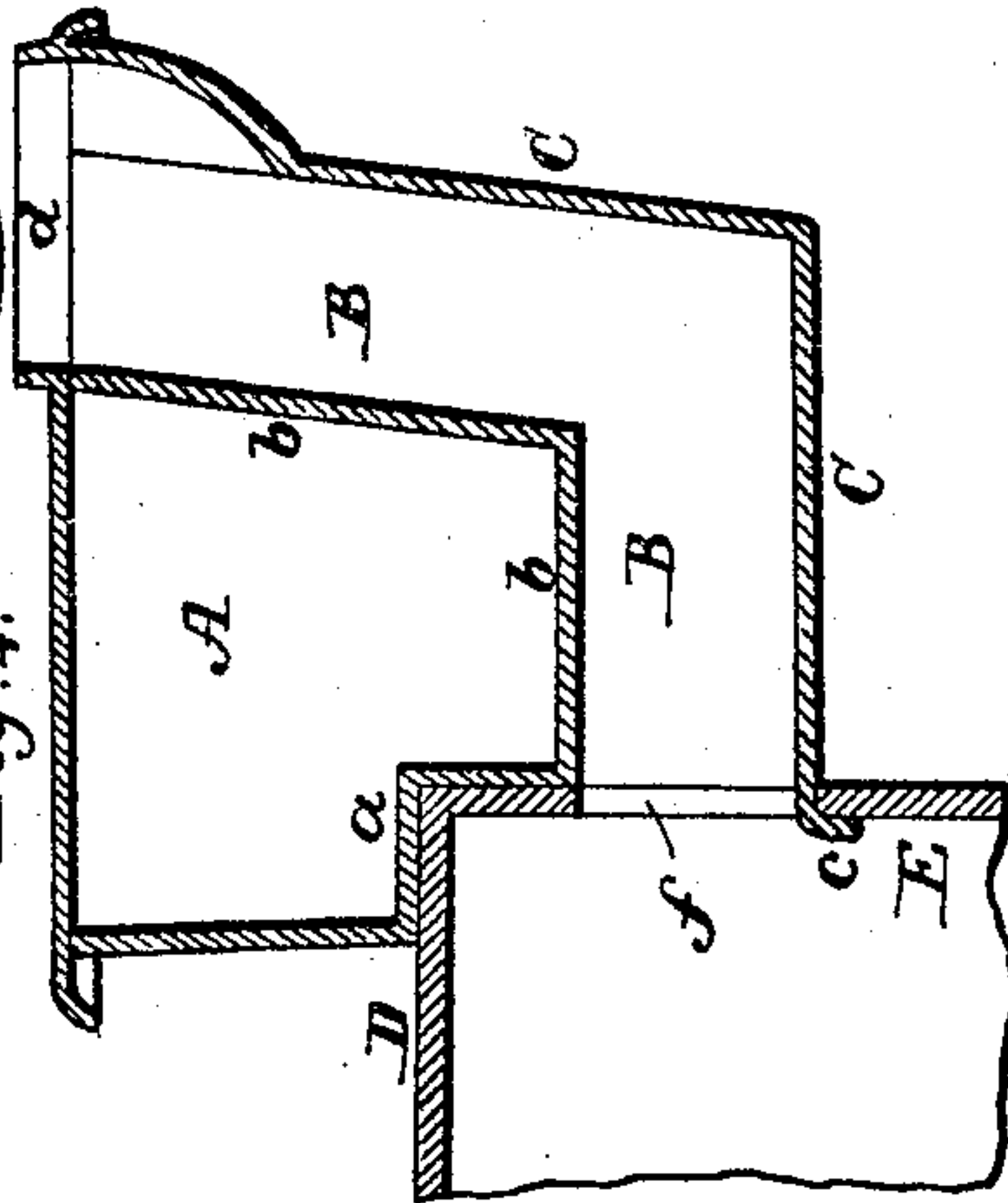


Fig. 1.

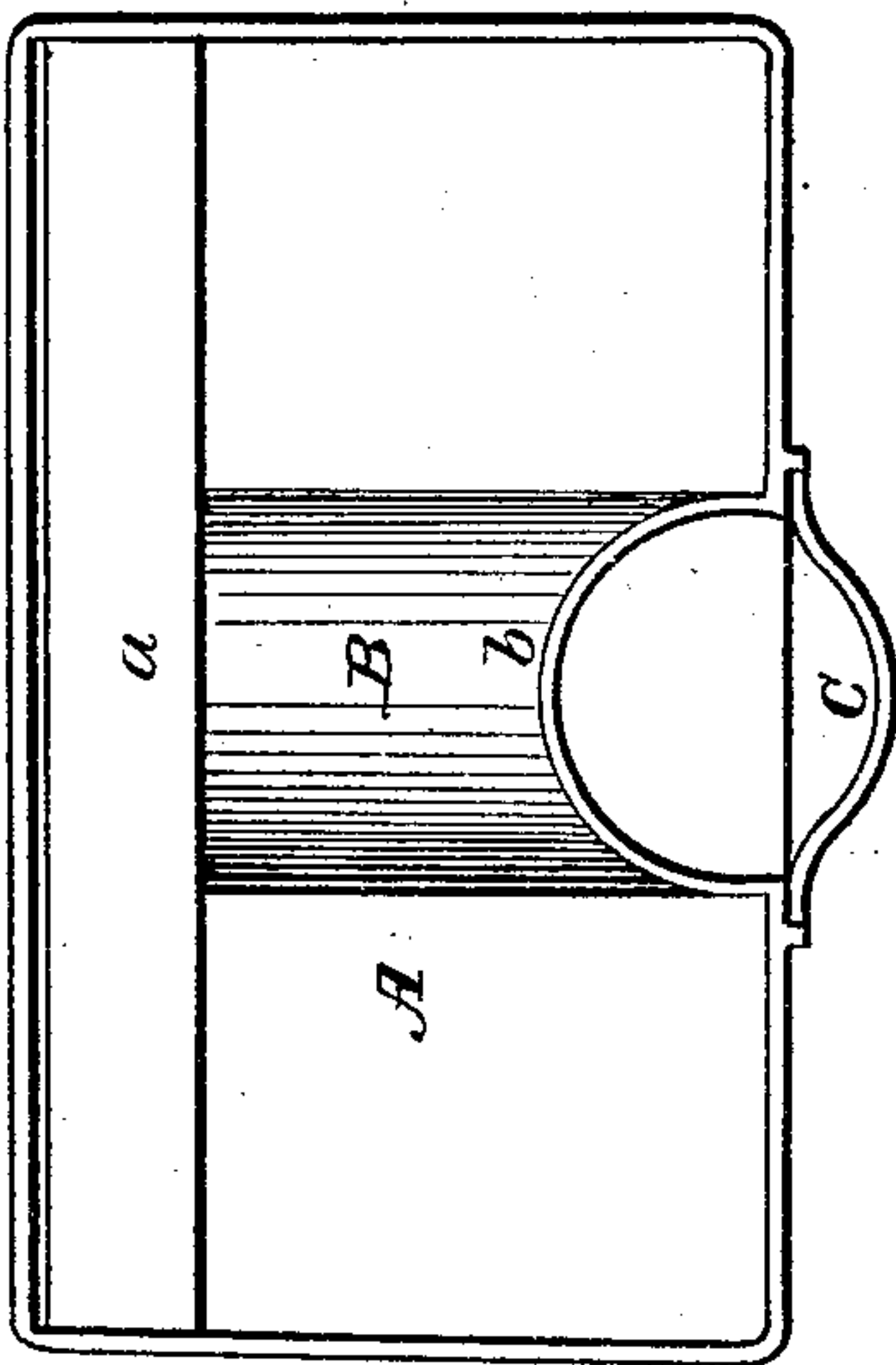
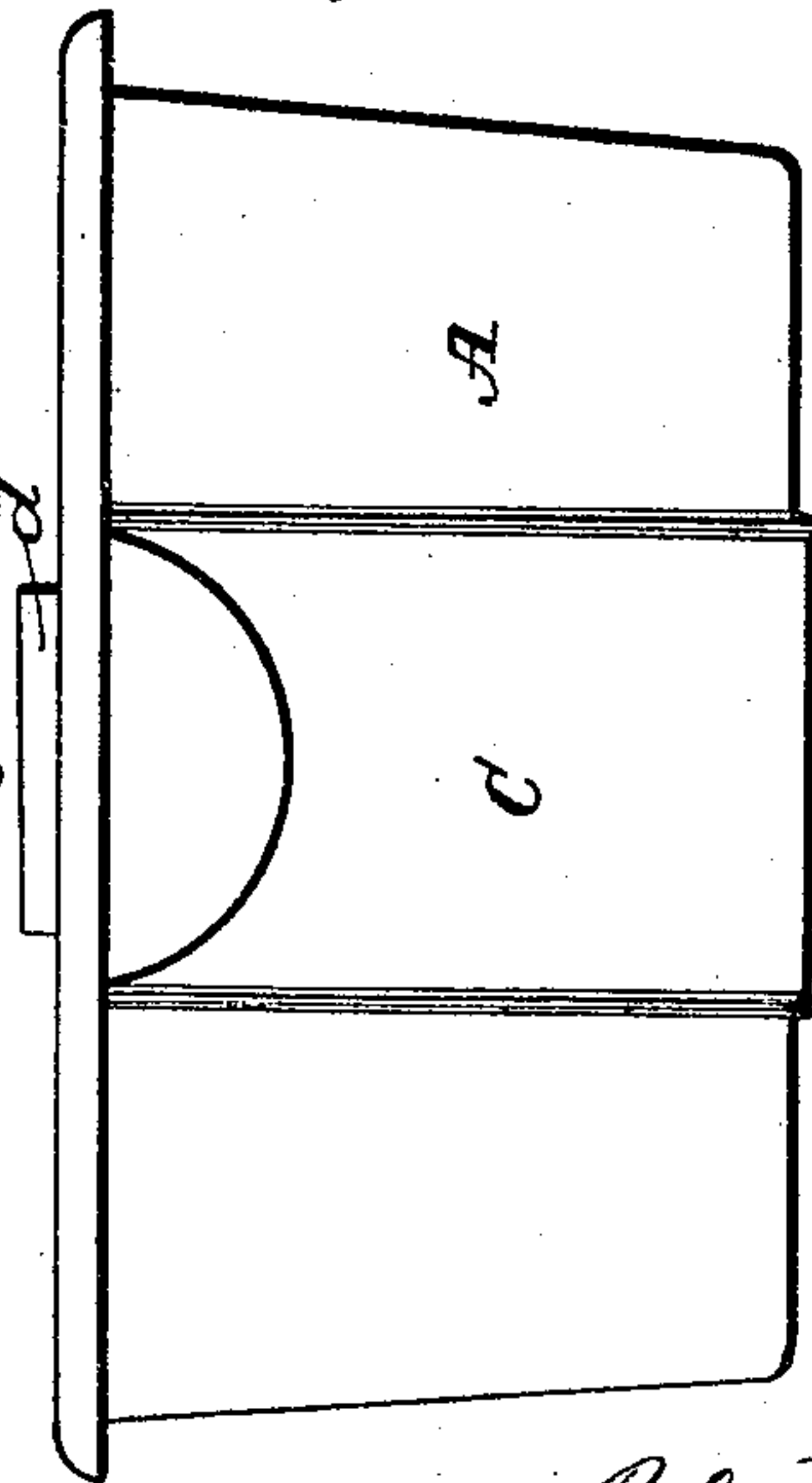


Fig. 2.



Witnesses:
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Inventor:
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United States Patent Office.

ROBERT HAM, OF TROY, NEW YORK.

Letters Patent No. 89,655, dated May 4, 1869.

IMPROVEMENT IN COOKING-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, ROBERT HAM, of Troy, in the county of Rensselaer, and State of New York, have invented an Improved Hot-Water Reservoir for Cooking-Stoves; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a top view of the reservoir, the cover being removed.

Figure 2, a back view thereof.

Figure 3, a bottom view of the same.

Figure 4, a transverse central vertical section of the reservoir, in connection with the back part of a cooking-stove, showing the mode of connecting it with the stove or range.

Like letters designate corresponding parts in all of the figures.

The reservoir A is located at the back of the stove, and preferably, has a step, or projection, *a*, reaching forward a short distance, so as to rest on the top, D, of the stove, to which it may be attached, by screws, or otherwise.

A portion of the reservoir may reach above the stove, as shown in the drawings, or its top may be brought nearly down to a level with the stove.

My invention consists, first, in forming a flue, B, by indentation into both the bottom and back of the reservoir, so as to receive the draught through an aperture, *f*, in the back of the stove, and transmit it along the bottom and back of the reservoir, exposing along its whole extent, all its surface, except the plane, or nearly plane, outside surface, or what is equivalent to three sides of the flue, to the water in the reservoir, an unusual amount of heating-surface.

A collar, *d*, at the upper end of the flue, receives the smoke-pipe of the stove.

Practically the reservoir is made of cast iron; and

another feature of my invention consists in casting the whole body of the reservoir and all of the inside plate *b*, of the flue, in one piece, whereby extreme economy of construction is secured, and no joint, liable to open and leak, is exposed to the water.

The flue-plate *b* is generally made convex, or rounded, though three distinct sides may be formed, thus somewhat increasing the heating-surface, but in other respects not so desirable.

The outside of the flue, both at the bottom and back of the reservoir, is covered by a single plate, C, of cast-iron, formed so as to fit and cover the flue-cavity tightly. It is properly secured to the reservoir, making a good finish with its surface. Its inner end projects inward, through the draught-aperture *f*, in the back, E, of the stove, and has a hook-shaped or angular downward projection, *c*, to hold upon the said stove-plate, and thus help sustain the reservoir.

The reservoir, except its cover, is, therefore, made of only two pieces of cast iron.

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

A hot-water reservoir, A, having a flue, B, both at the bottom and back, indented throughout its whole extent, into the body of the reservoir, and arranged so as to receive the draught directly through the back plate of the stove, substantially as and for the purpose herein specified.

Also, casting the entire reservoir, except the covers, in two parts only, one part forming the body of the reservoir and the inside of the flues, and the other part, C, being an angular plate, covering the whole outside of the flues, as herein set forth.

ROBERT HAM.

Witnesses :

D. B. COX,

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