

I. H. SPELMAN.  
Steam Cooking Apparatus.

No. 153,858.

Patented Aug. 4, 1874.

Fig. 1.

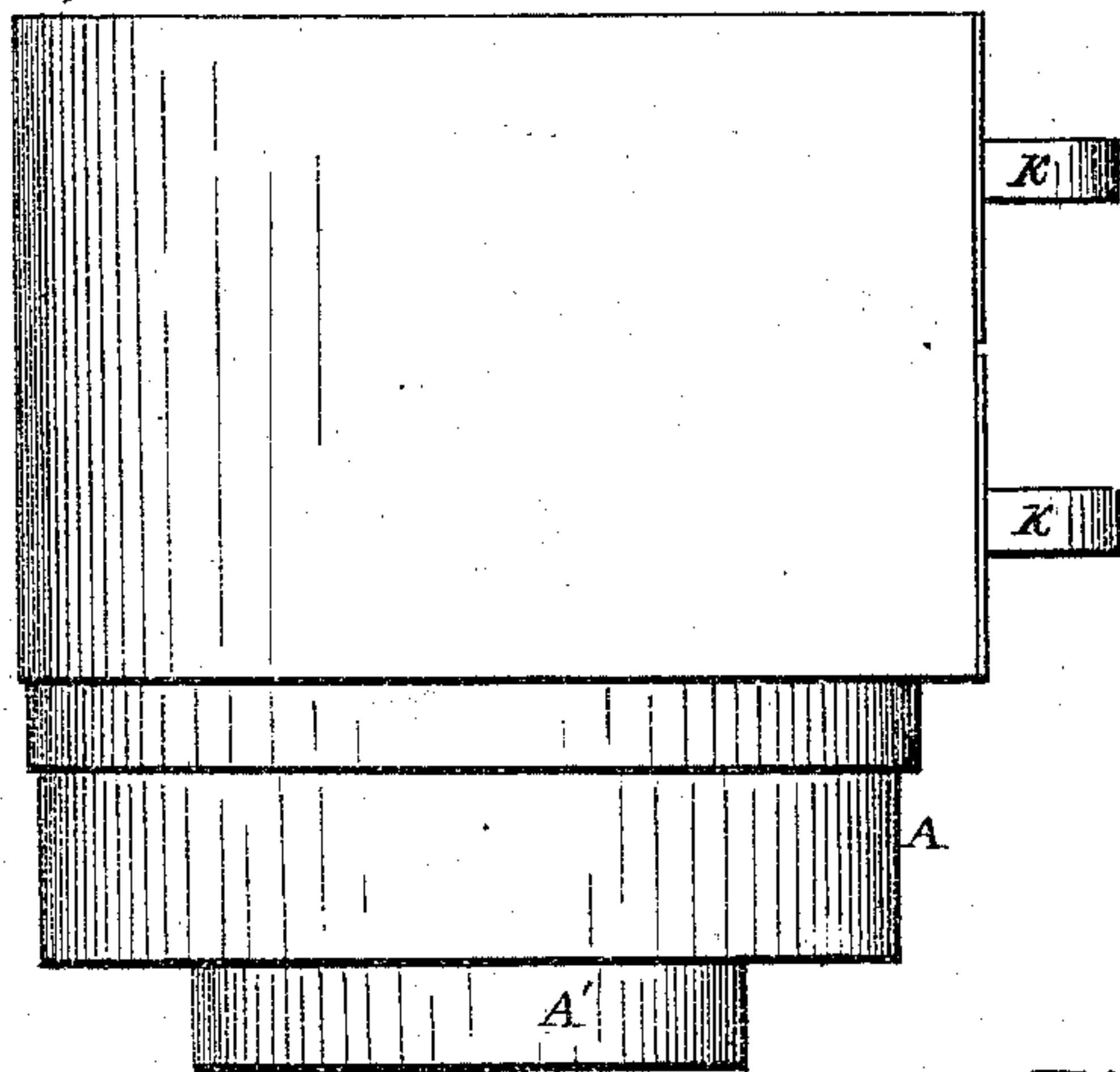


Fig. 2.

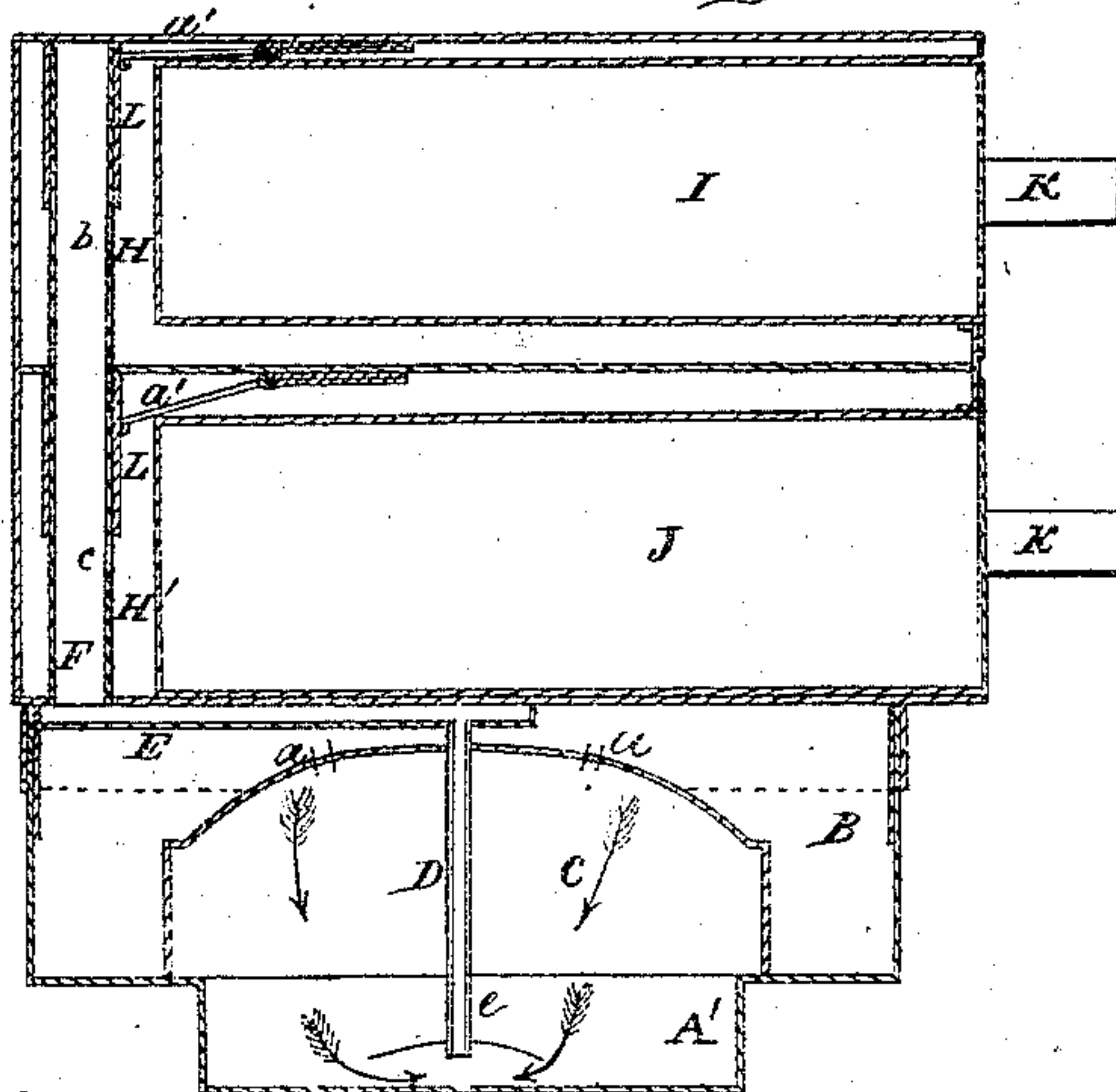


Fig. 3.

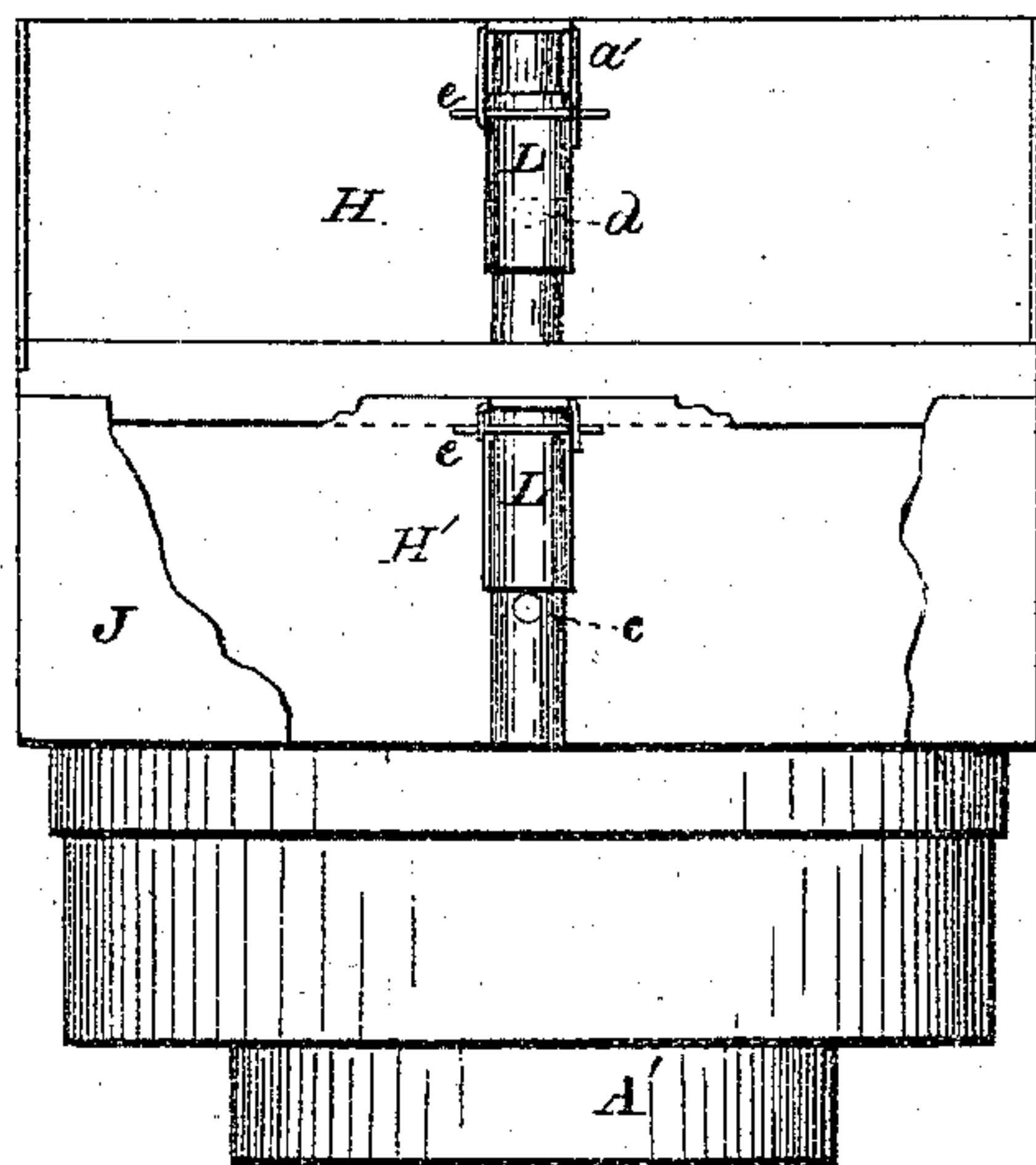
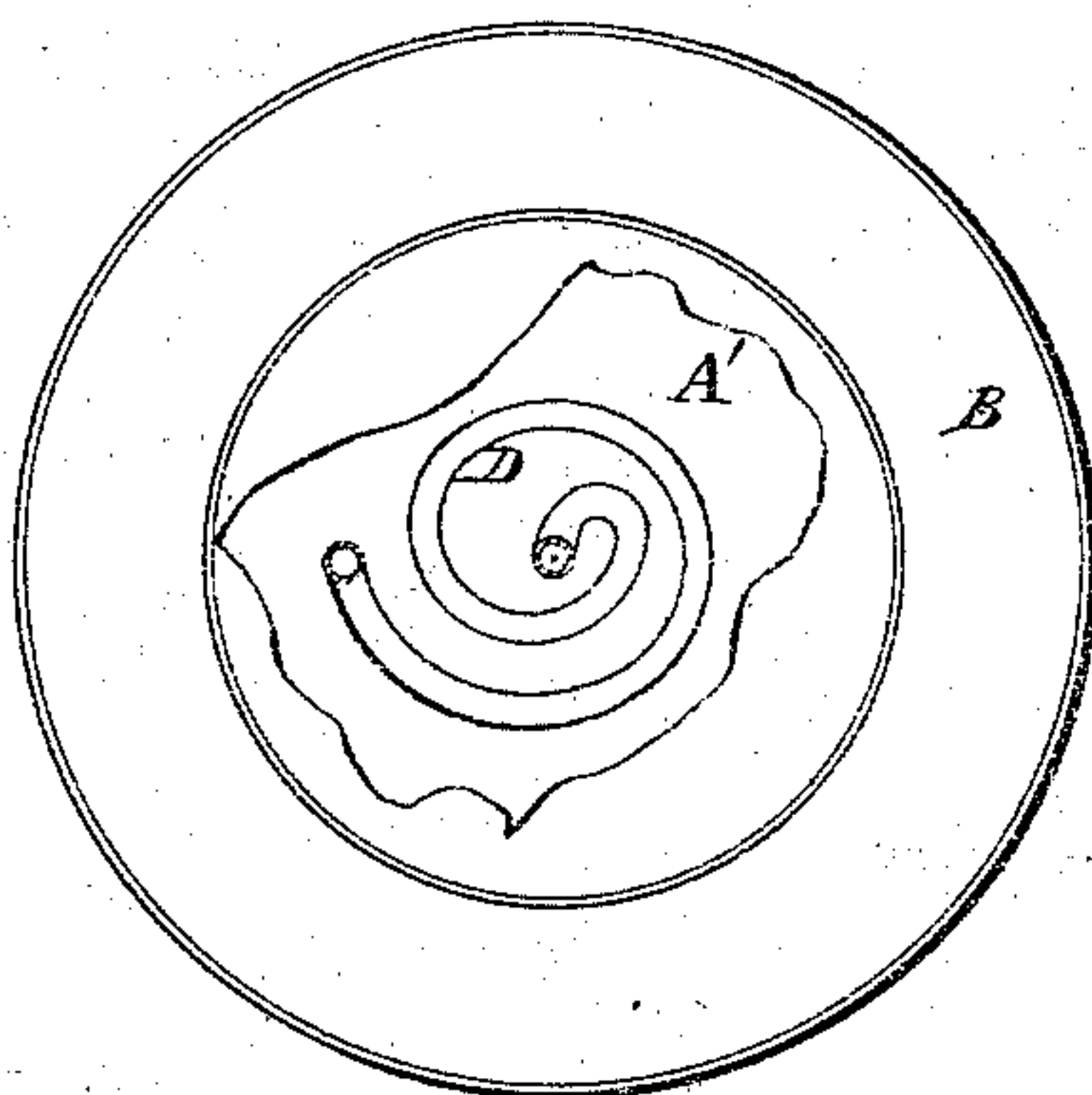


Fig. 4.



Witnesses.  
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IRWIN H. SPELMAN, OF BAZETTA, OHIO.

## IMPROVEMENT IN STEAM COOKING APPARATUS.

Specification forming part of Letters Patent No. **153,858**, dated August 4, 1874; application filed May 12, 1874.

*To all whom it may concern:*

Be it known that I, IRWIN H. SPELMAN, of Bazetta, in the county of Trumbull and State of Ohio, have invented a new and Improved Steam Cooking Apparatus, of which the following is a full and complete description, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a side view of the apparatus. Fig. 2 is a vertical transverse section. Fig. 3 is a front view. Fig. 4 is an inside view.

Like letters of reference refer to like parts in the several views.

This invention has relation to steam cooking apparatus, and the novelty consists in the construction of the steam-chamber, steam-conduits, perforated pipe, and weighted sleeve valves, as hereinafter more fully described and claimed.

In Fig. 1, A represents a boiler, an inside view whereof is shown in Fig. 2, in which it will be seen that it comprises two sections, B C. Section B is the water chamber or boiler referred to. C is a steam-chamber surrounded by the water in the boiler B. Communication is had between the steam-chamber and boiler above the water line by means of openings *a*, Fig. 2, in the top of the chamber. D is a steam-pipe, the lower end whereof opens near the bottom of the chamber, whereas the upper end communicates with a conduit, E, whereby the steam passing in at the lower end *e* of the pipe is conveyed into the pipe F, thence into the ovens H H', Fig. 3, in which are fitted drawers I J, Fig. 2, of which K are the handles. The steam finds its way into the ovens from the pipe F through small apertures *c*, Fig. 3, also indicated by the dotted lines *d*. Each hole when not in use is closed by a sleeve-valve, L, fitted loosely over the pipe, which, by virtue of its own weight, slides down over the hole, as shown in oven H, Fig. 3, whereas the sleeve in oven H' is lifted from over the hole. This lifting of the sleeve from over the hole is done by the end of the drawer on being pushed in. Said end of the drawer strikes against a link, *a'*, Figs. 2 and 3, thereby pushing up the sleeve, as shown in Fig. 2. One end of the link is hinged to the roof of the

oven and the opposite end is attached to the sleeve-valve L by elongated holes or hooks in the ends thereof, through which the pin *e* attached to the sleeve-valve passes. Said hooks by their length are a compensating means for the shortening and lengthening of the link in its relation to the movement of the valve. The attachment of the steam-chamber C to the bottom of the boiler should be water-tight, and for the purpose of fitting the pot-holes in the stove the bottom of the apparatus is made smaller for that purpose, as seen at A'.

The practical operation of the apparatus is as follows: It is set upon a stove with the bottom A' in one of the pot-holes. The steam generated in the boiler B passes therefrom into the chamber C through the apertures *a*, passing from thence through the pipe D to the conduit E into the pipe F, thence into the ovens through the holes *b c*, which are opened by shoving in the drawers. The steam thus admitted into the oven cooks the food in the drawers placed therein in much less time than it could be in the ordinary way, and with less smell and smoke in the room.

The purpose of the steam-chamber referred to is to superheat the steam, and thereby render it more effective in cooking than it would be if applied directly to the food from the boiler without superheating it.

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

1. The steam-chamber, having perforations *a* and pipe D, in combination with the boiler B, in the manner as described, and for the purpose set forth.

2. The steam conduits or pipes E F and ovens H H', in combination with the pipe D and steam-chamber C, substantially as described.

3. In combination with the perforated pipe F, of the weighted sleeve-valve L, fitted loosely over the pipe and the connecting-link *a*, operated substantially as and for the purpose set forth.

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Witnesses:

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