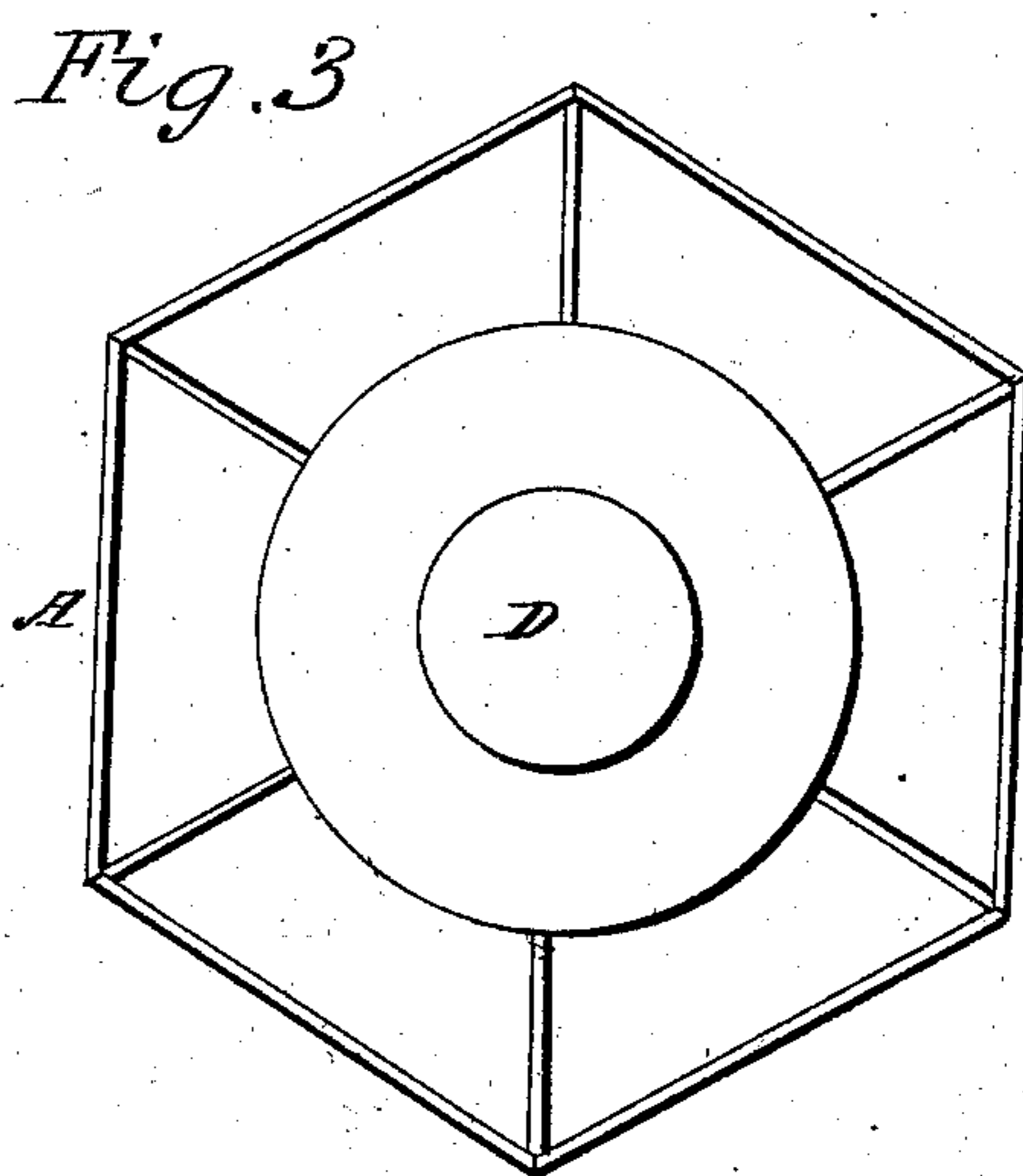
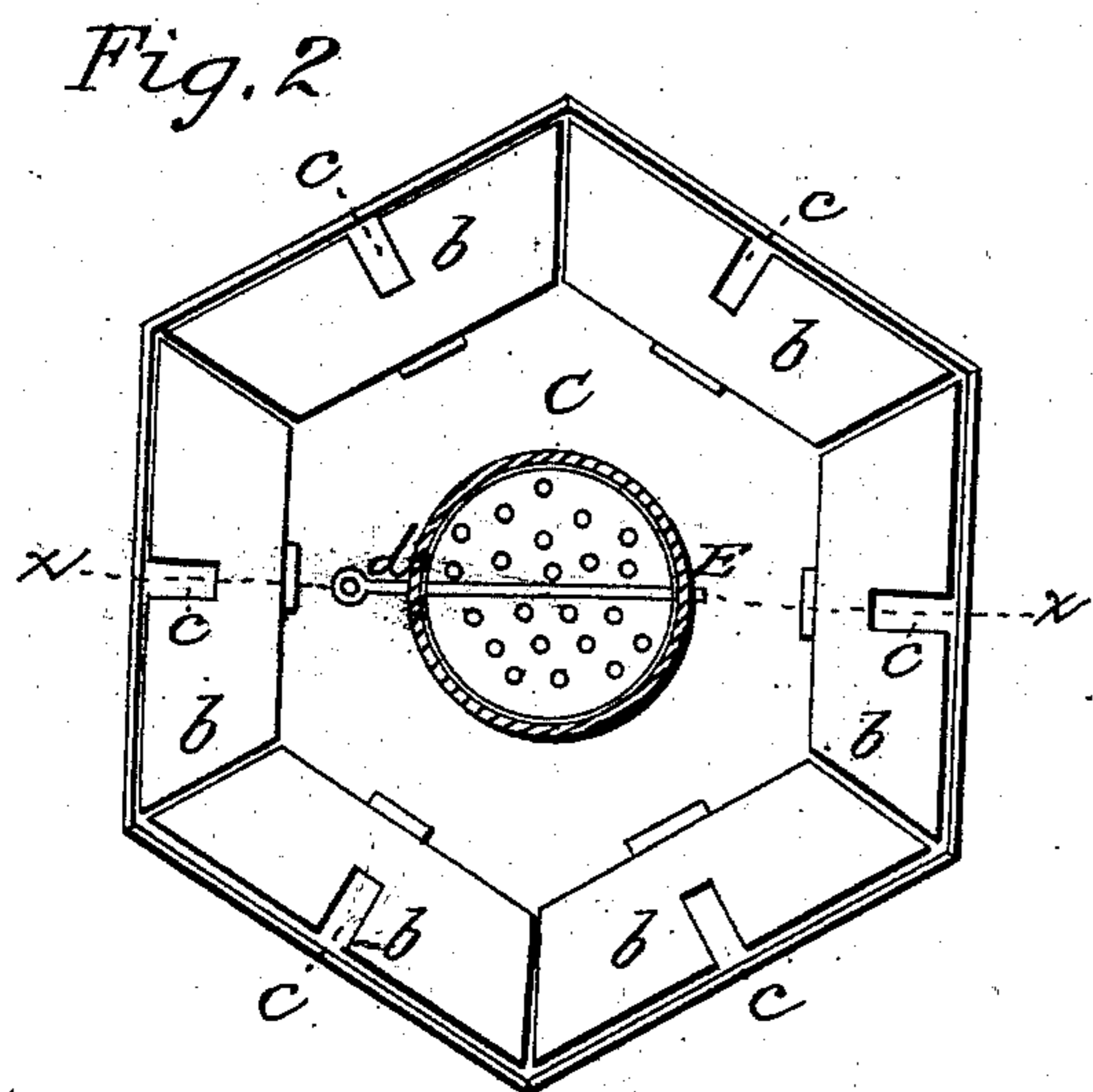
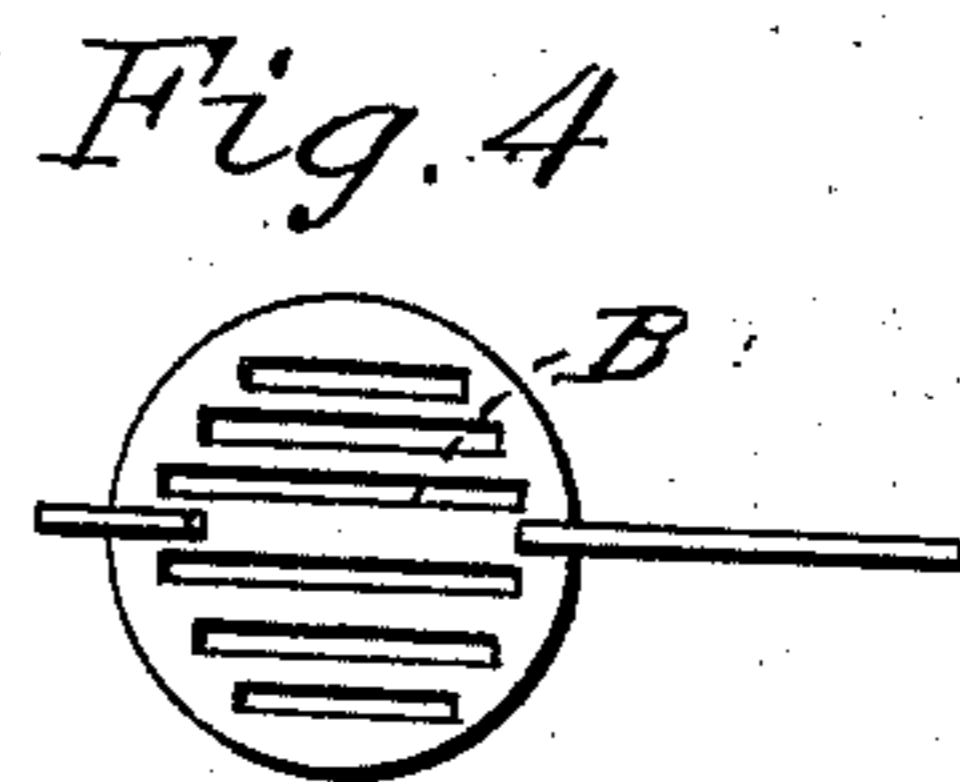
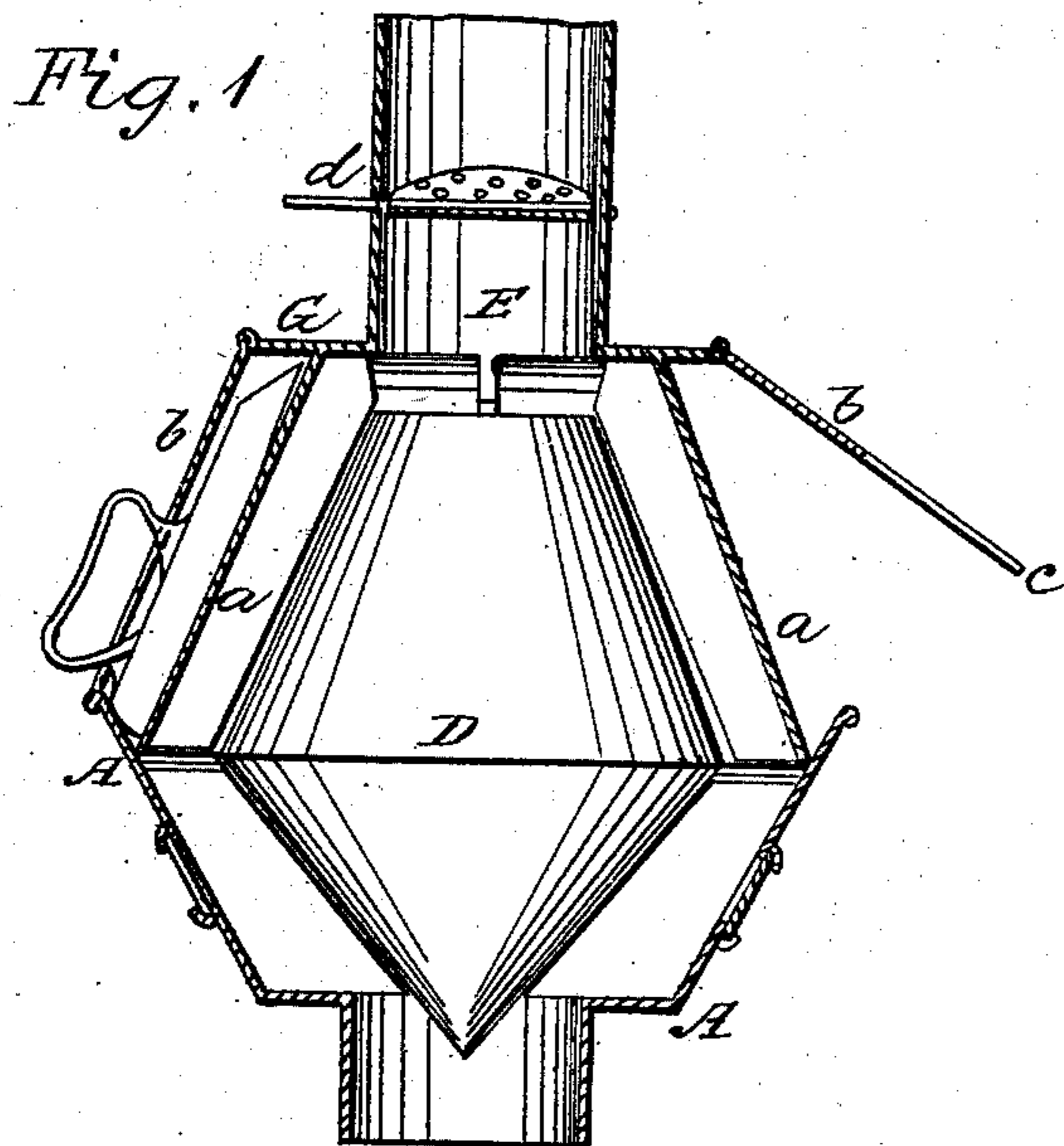


J. H. YATES.
Flat-Iron Heater.

No. 68,024.

Patented Aug. 20, 1867.



Witnesses:
Thos Tusch
J. A. Service

Inventor:
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United States Patent Office.

JOHN H. YATES, OF BATAVIA, NEW YORK.

Letters Patent No. 68,024, dated August 20, 1867.

FLAT-IRON HEATER.

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, JOHN H. YATES, of Batavia, Genesee county, New York, have invented a new and useful improvement in Flat-Iron Heaters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a partial vertical section of my improved flat-iron heater, taken in the line *x x*, fig. 2, showing the internal arrangement of flues and supports for the irons.

Figure 2, a top view.

Figure 3, a top view of the base detached, with the deflector in it.

Figure 4, a detached movable grate.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the construction of flat-iron heaters, and consists in forming a cast-iron support to be set on a stove, and enclosing a conical deflector, which is so arranged as to direct the heat in its passage up through the heater against the bottom of inclined planes on which the flat-irons are placed to be heated. The heater is provided with slotted flap-covers hinged to the top, which fit over the handle of the iron, and enclose it in the compartment in the side of the heater, to keep the heat in, and at the same time expose the handle of the iron to the air outside to keep it cool.

The advantages of my improved heater are, that it is portable, and occupies no more space on a stove than a pot or a kettle, and will heat six flat-irons at a time; and the heat from the fire is so directed that it is effective, and saves fuel, while it is evenly distributed over the surface, and heats the irons quickly. It is alike applicable to cook-stoves, heating stoves, and charcoal-furnaces, and the heat may be perfectly regulated.

A represents a hexagonal cast-iron base, fitted at the bottom to set in the pot-hole of a stove or on the top of a charcoal-furnace, which is provided with a movable grate, B, shown in fig. 4, detached, that may be used with charcoal to make a fire in the bottom of the heater when desired, thus dispensing with fire in a stove in the summer. C represents an upper section of the heater, which is fitted to set upon the top of the base A. It is pyramidal in form, and is divided by six ribs, *a a*, into six compartments for receiving the flat-irons, as shown in the drawings. These compartments are covered by flaps *b b*, that are hinged at the top of the heater so that they may be lifted up to put the flat-irons in the compartments with their points upwards, and the flap-covers *b b* have slots *c c* in their bottom, through which the handles of the irons project, as shown in fig. 1, in red, and exposed to the air when in place for heating. Enclosed in the upper and lower sections of the heater is a hollow cast-iron heat-deflector, D, made in the form of a truncated cone in the upper part, and an inverted cone in the lower part, which, when in place, leaves flues between the deflector and the bottoms of the flat-iron compartments between the ribs *a a*, which thus receive all the heat upon them in its passage through the heater, as will readily be understood. The section C terminates above in a small pipe, E, which is provided with an ordinary perforated damper, *d*, to regulate the heat. The pipe E may be provided with a joint of pipe to connect with the pipe of a stove, or direct the smoke anywhere out of the way of the person using the flat-irons.

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

1. The construction and arrangement of the base A, with or without the grate B, upper pyramidal section C, resting upon the base A, and provided with slotted swinging doors *b* and partitions *a*. The hollow deflector D, within the base A, and section C, forming flues between the ribs *a a* and inclined bottoms of the flat-iron compartments, as herein set forth for the purpose specified.

2. The close flat-iron heater, when constructed as described, for being adapted to fit into the pot-holes of a stove, substantially as described for the purpose specified.

3. The combination and arrangement of the base A, whose upper edge is adapted to support the flat-iron, in combination with the inclined flat-iron compartments formed in the section C, and provided with the slotted swinging cover *b*, as herein set forth for the purpose specified.

The above specification of my invention signed by me this 4th day of February, 1867.

JOHN H. YATES.

Witnesses:

H. S. MORSE,

S. B. JOSLYN.