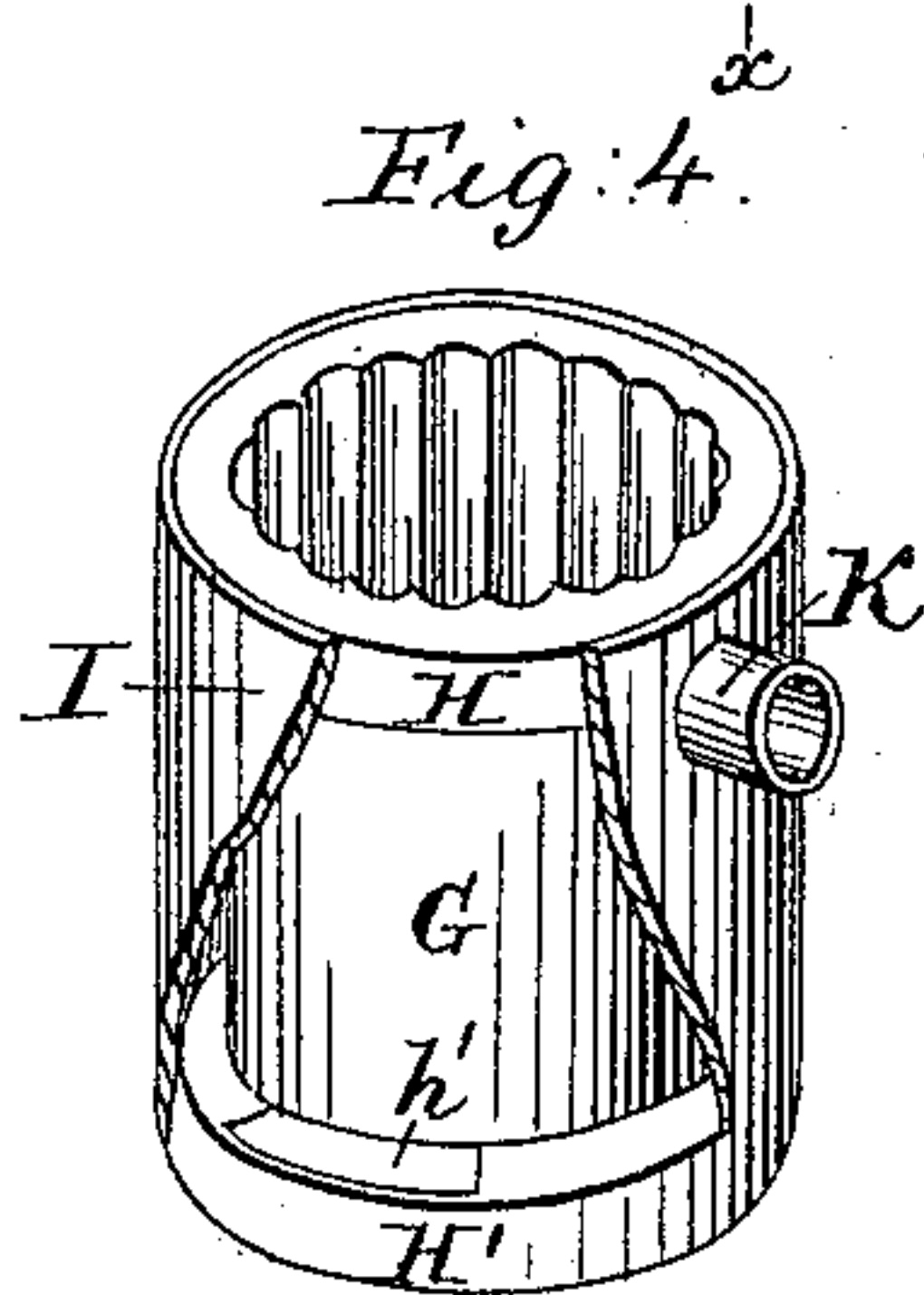
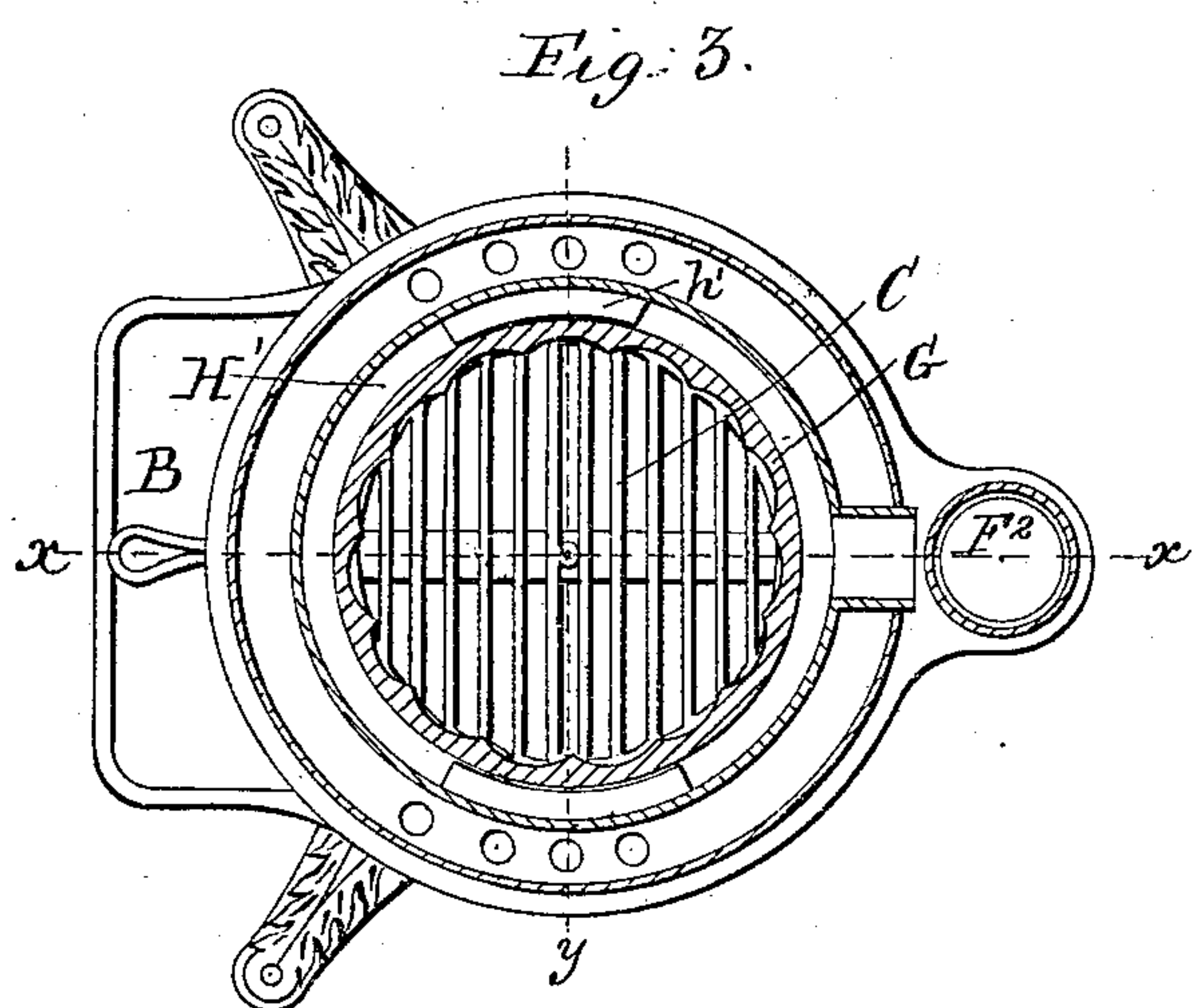
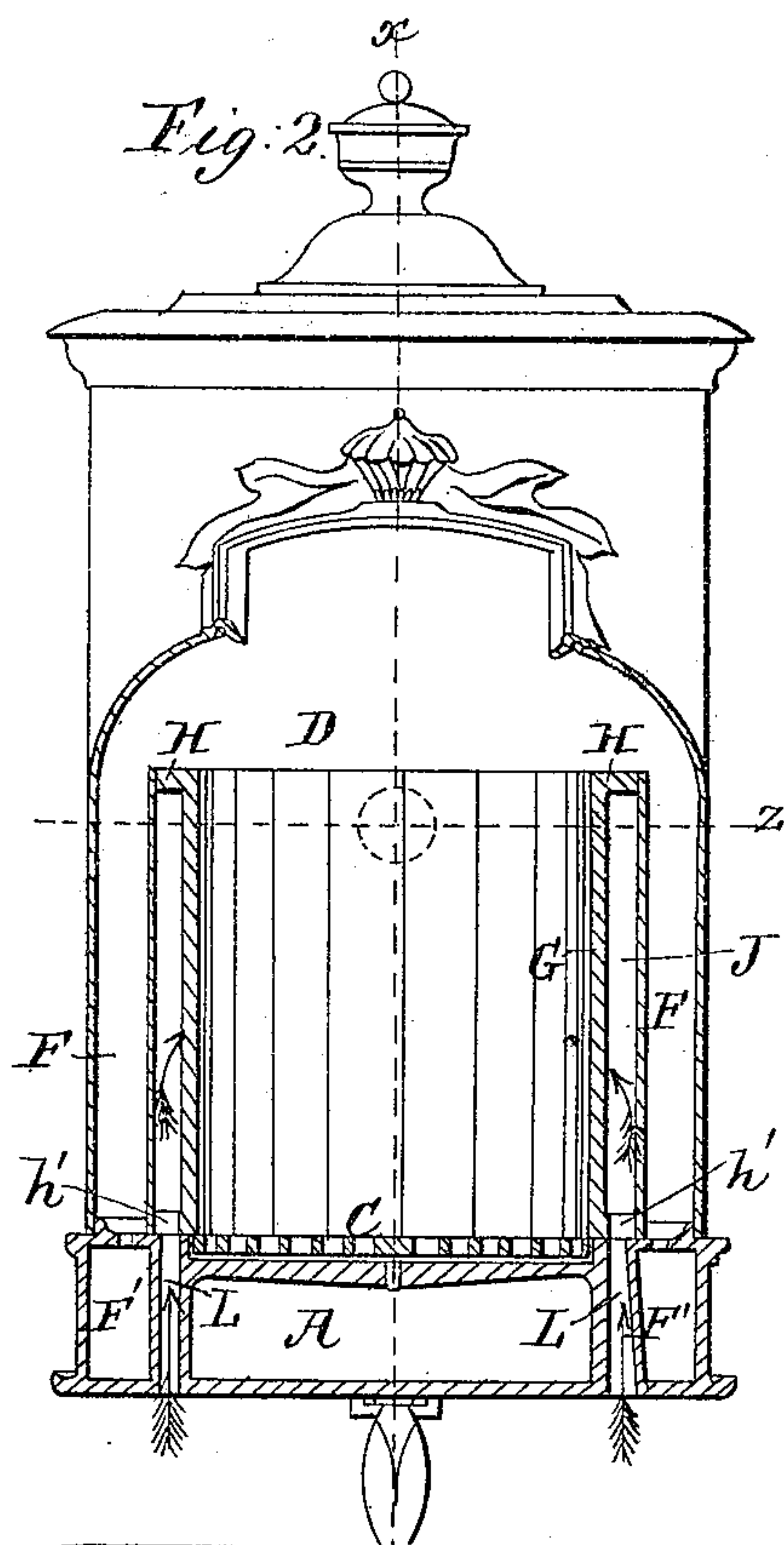
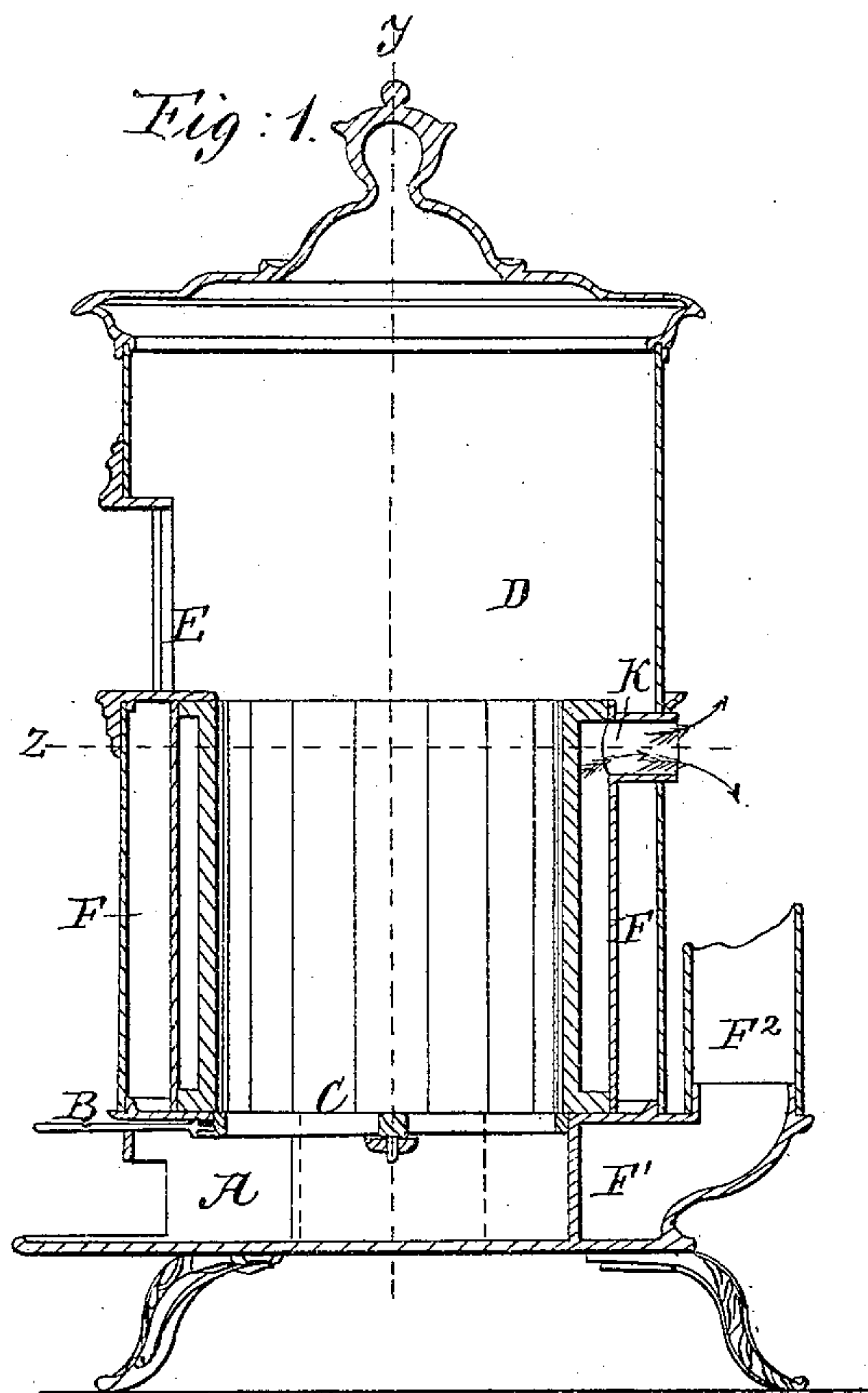


N. O. BOND.

Fire Pot for Stoves.

No. 42,831.

Patented May 24, 1864.



Witnesses.
Oscar Hughes
Charles O. Bond

Inventor
N. O. Bond

UNITED STATES PATENT OFFICE

N. OSCAR BOND, OF NEEDHAM, MASSACHUSETTS.

IMPROVEMENT IN FIRE-POTS FOR STOVES.

Specification forming part of Letters Patent No. 42,831, dated May 24, 1864.

To all whom it may concern:

Be it known that I, N. OSCAR BOND, of Needham, in the county of Norfolk and State of Massachusetts, have invented a new and Improved Fire-Pot for Stoves or Furnaces; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical section, at $x x$, of a stove with my fire-pot applied. Fig. 2 is a vertical section thereof at $y y$. Fig. 3 is a horizontal section at $z z$. Fig. 4 is a perspective view of the fire-pot detached, on a smaller scale, a part of the outer shell being broken away.

Similar letters of reference indicate corresponding parts in the several figures.

My invention is an improvement in what are known as "base-heating" stoves or furnaces, or those in which the products of combustion are carried down through diving or descending flues, so as to radiate heat at the lower part of the stove.

The present improvement consists in a peculiar construction of fire-pot, which combines the qualities of efficiency, durability, and cheapness to a greater degree than those in common use.

In order that others skilled in the art to which my invention appertains may be enabled to fully understand and use the same, I will proceed to describe its construction and operation.

The ash-pit A, hearth B, grate C, combustion-chamber D, fire-door E, descending flues F, base-flues F', and discharge-flue F² may be constructed and arranged in any suitable manner, and require no specific description.

My improved fire-pot is, by preference, constructed in the following manner:

G represents a cylinder formed in one piece of cast-iron, or other suitable material, with

flanges H H' above and below, the lower flange, H', being formed with apertures h' , for the passage of air, as hereinafter explained.

I is a casing of sheet iron, fitted and secured tightly over the flanges H H', so as to inclose an annular chamber, J, around the cylinder G.

K represents a pipe communicating with the upper part of the annular chamber J, for the purpose of conveying heated air therefrom and discharging it within the apartment in which the stove is placed, or any other which it may be desired to warm.

The air may be supplied to the interior of the chamber J through passages L L in the base of the stove, communicating with the apertures h' , or in any other suitable manner.

The capacity of the chamber J is determined by the width of the flanges H H'. By making this chamber perfectly air-tight, with the exception of the openings before described, the cylinder may be made complete in itself and applicable to any of the common forms of base-heating parlor coal-stoves without interfering with their modes of distributing the heat rising from the top of the fire-pot.

The wall of the cylinder G, within the chamber J, may be coated with any preparation or material to lessen the intensity and temper the effect of the heat upon the air circulating through chamber J.

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

As a new article of manufacture, the improved fire-pot hereinbefore described, the said fire-pot consisting of the cast-iron flanged cylinder G H H', sheet-iron casing I, inlets h' , and outlet K, all as represented.

N. OSCAR BOND.

Witnesses:

OCTAVIUS KNIGHT,
CHAS. L. DU BOIS.