

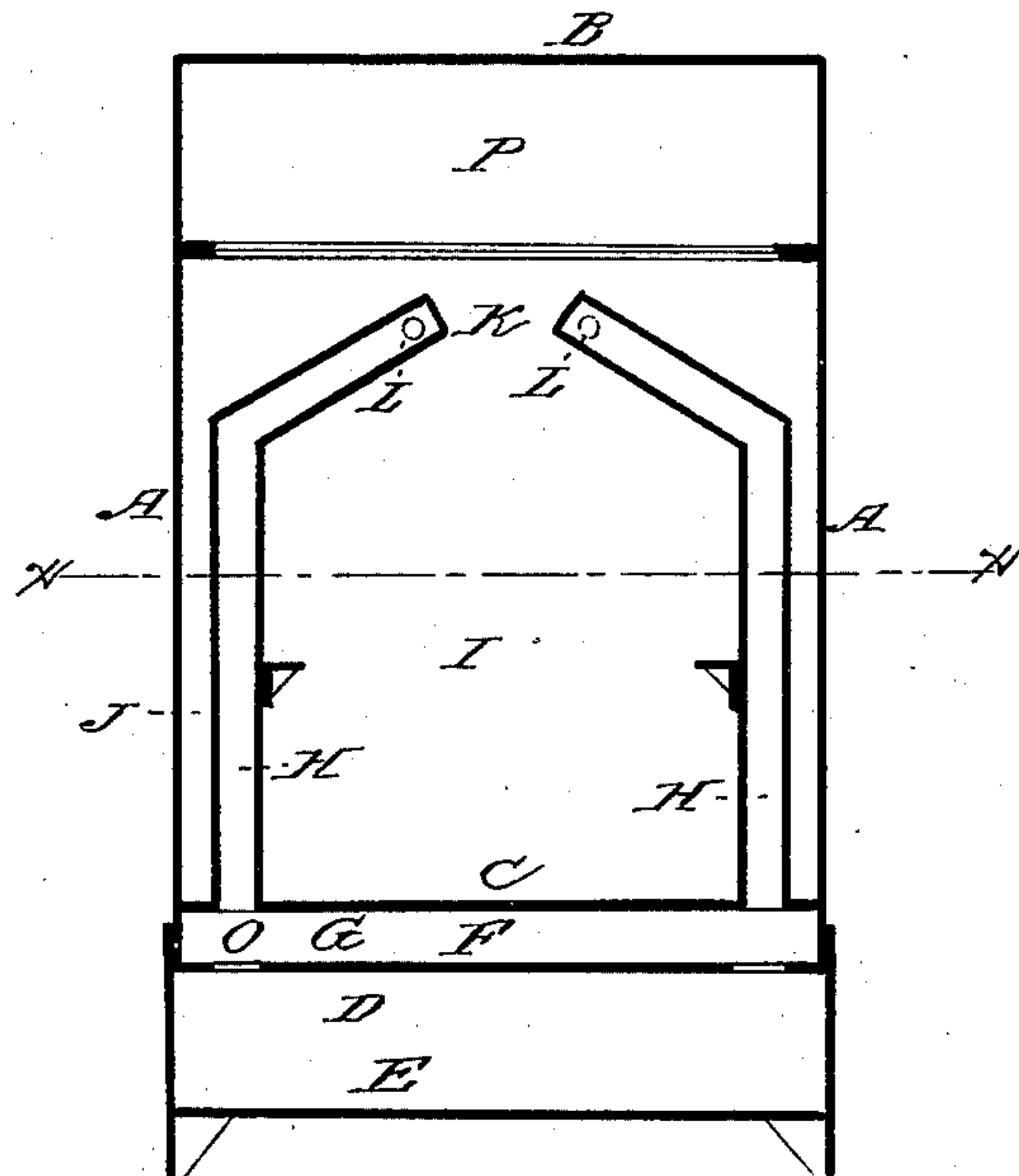
KENNEL, SMITH, & MORRISON.

Gas Stove.

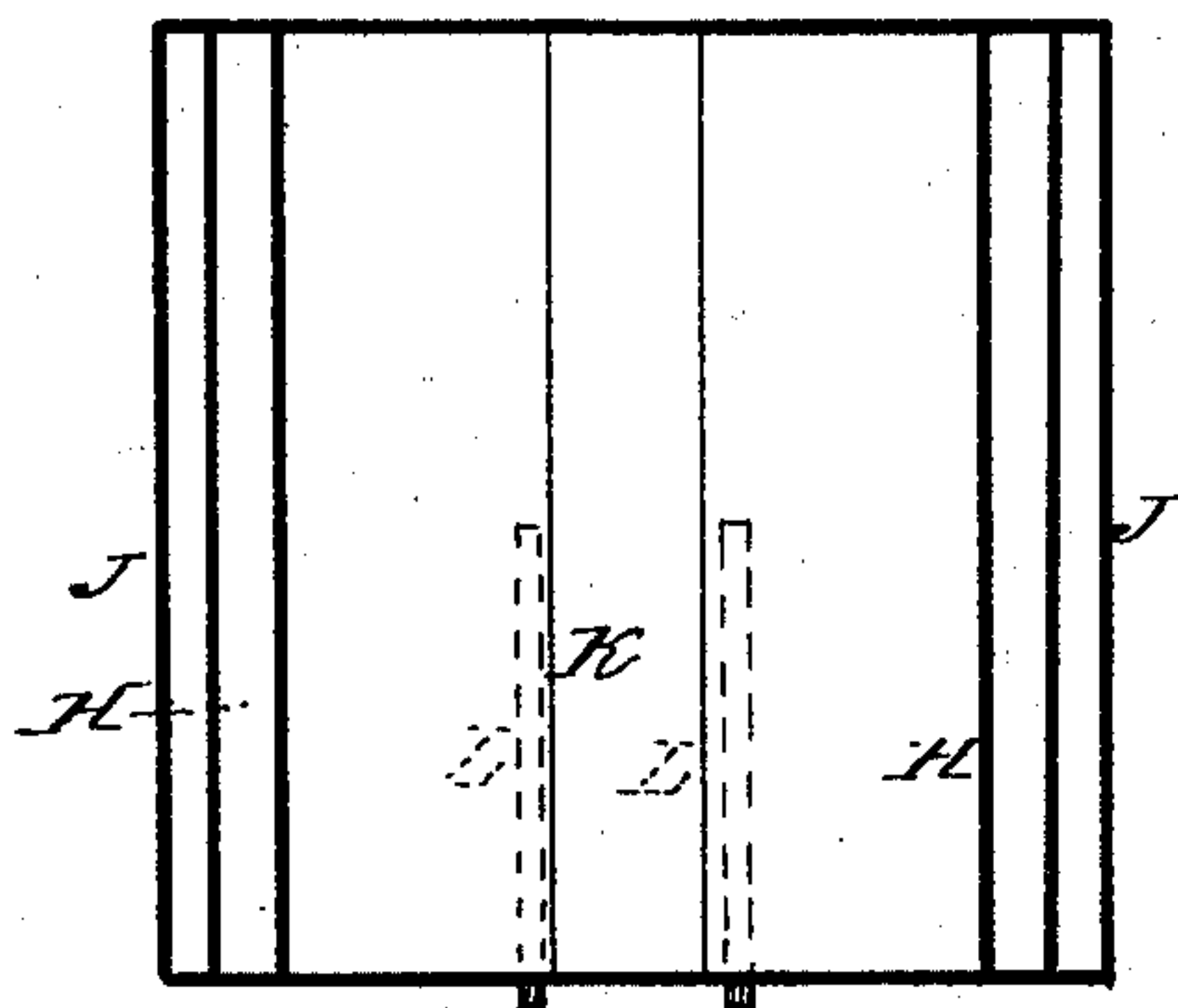
No. 63,907.

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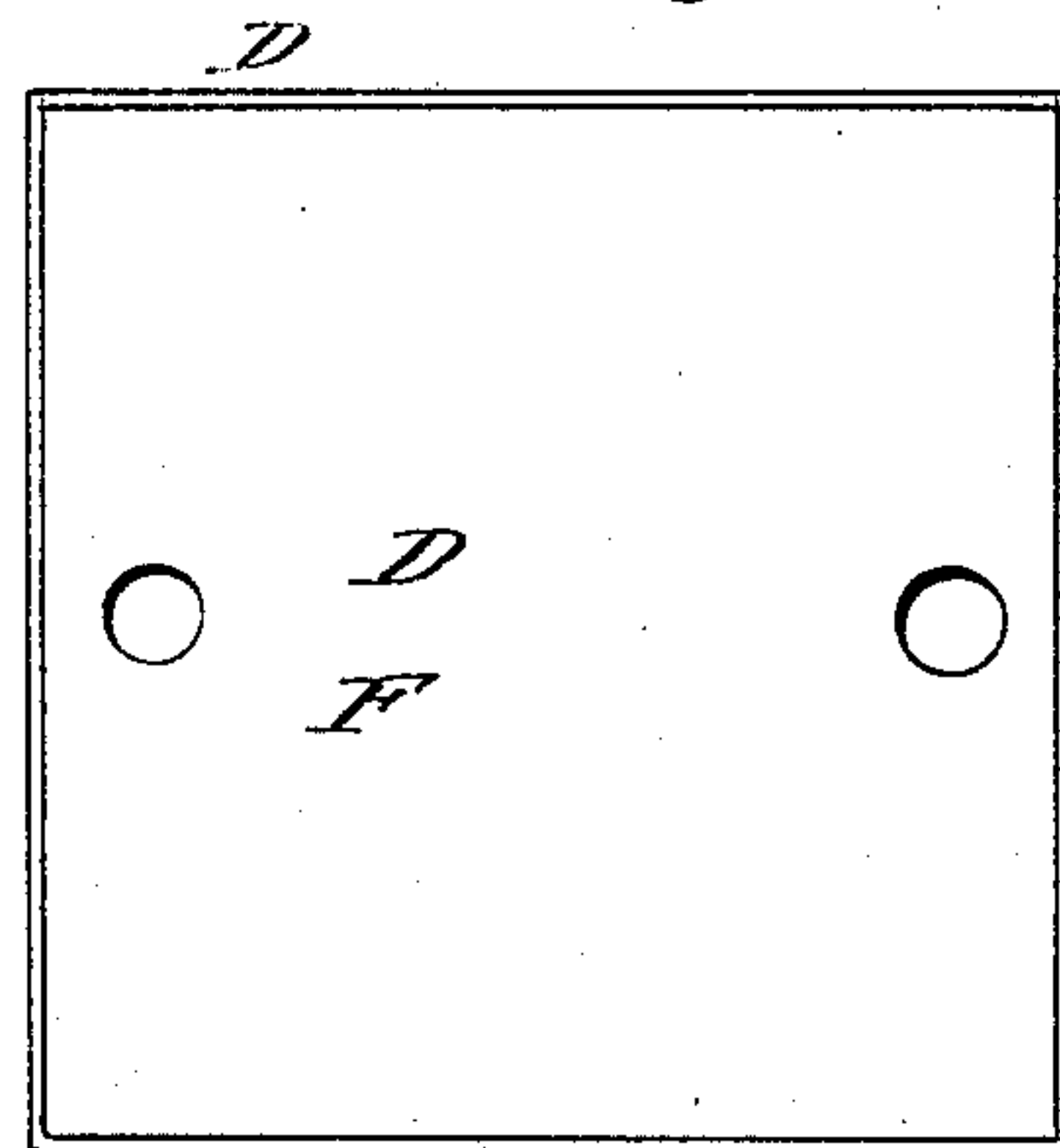
*Fig. 1*



*Fig. 2*



*Fig. 3*



Witnesses:  
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# United States Patent Office.

OBADIAH G. KENNEL, EZRA H. SMITH, AND GARDNER L. MORRISON, OF  
NEW YORK, N. Y.

*Letters Patent No. 63,907, dated April 16, 1867.*

## LAMP STOVE FOR COOKING.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that we, OBADIAH G. KENNEL, EZRA H. SMITH, and GARDNER L. MORRISON, of the city, county, and State of New York, have invented a new and useful Improvement in Stoves; and we 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.

This invention relates to that class of stoves used for heating and cooking purposes, in which gas, or kerosene or other oils, or similar burning media are employed; and the invention consists, principally, in constructing upon the interior of the stove hot-air chambers, or spaces, that at their lower ends are open, opposite which the gas, etc., is consumed, but at their upper ends, which are made to extend over and embrace the upper side of the oven, are closed, and provided with an escape pipe or pipes, in such a manner that the heat, etc., passing through the said chambers to escape through such pipes, must pass to the middle point of the said air-chambers or spaces. In the accompanying plate of drawings, our improvements in stoves are illustrated—

Figure 1 being a central vertical section across the width of the stove.

Figure 2, a horizontal section taken in the plane of the line  $xz$ , fig. 1; and

Figure 3, a plane view of the base or pedestal to the stove.

Similar letters of reference indicate corresponding parts.

A, in the drawings, represents the body or case of the stove, which, in the present instance, is made of a square or rectangular shape, in horizontal transverse section, and is closed at both its upper and lower ends by plates, marked, respectively, B and C in the drawings. This case A is supported upon a pedestal or base, D, of suitable shape therefor, the interior of which base is open, forming a box or chamber, E, communication with which is had through its open front side. Between the top plate F of the pedestal and the bottom plate of the case A, a chamber, G, is left, into which open the lower ends of two narrow chambers or spaces H upon opposite sides of the box A. These chambers pass up through the interior chamber I of the box A, at a short distance from the side plates J, and form the front to the back plates of the same, said chambers passing over the top of the oven, terminating at their upper ends, where they are closed, at or near the centre line of the oven, but with a space or opening, K, between them. L L are pipes at upper end of chambers H, into which they extend toward their centre point, as shown in fig. 2 of the drawings, these pipes forming the outlet or escape for the air-chambers H. The plates forming the chambers H are secured within the box or case A, so as to stand entirely independent of the plates constituting the outside box, thus exposing their surfaces to the radiation of heat to the interior of the oven. Below, and at the mouth to the chambers H, the gas or other burning medium is to be consumed, the burners employed extending up through to openings O made in the top plate of the pedestal. P, a chamber in the upper portion of box or case A, into which the heat radiated from the plates, forming the hot-air passages or chambers H to the lower portion of the case A, ascends and diffuses itself.

We claim as new, and desire to secure by Letters Patent—

The chambers H, in the case A, their lower ends opening into the chamber G, their outer sides placed a short distance from the side plates J, their upper edges extending upward within the box A, and provided with escape pipes L, said case A resting upon the perforated plate F, of the base D, when all are constructed and arranged as herein set forth for the purpose specified.

The above specification of our invention signed by us this 24th day of January, 1867.

O. G. KENNEL,  
EZRA H. SMITH,  
G. L. MORRISON.

Witnesses:

WM. F. McNAMARA,  
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