

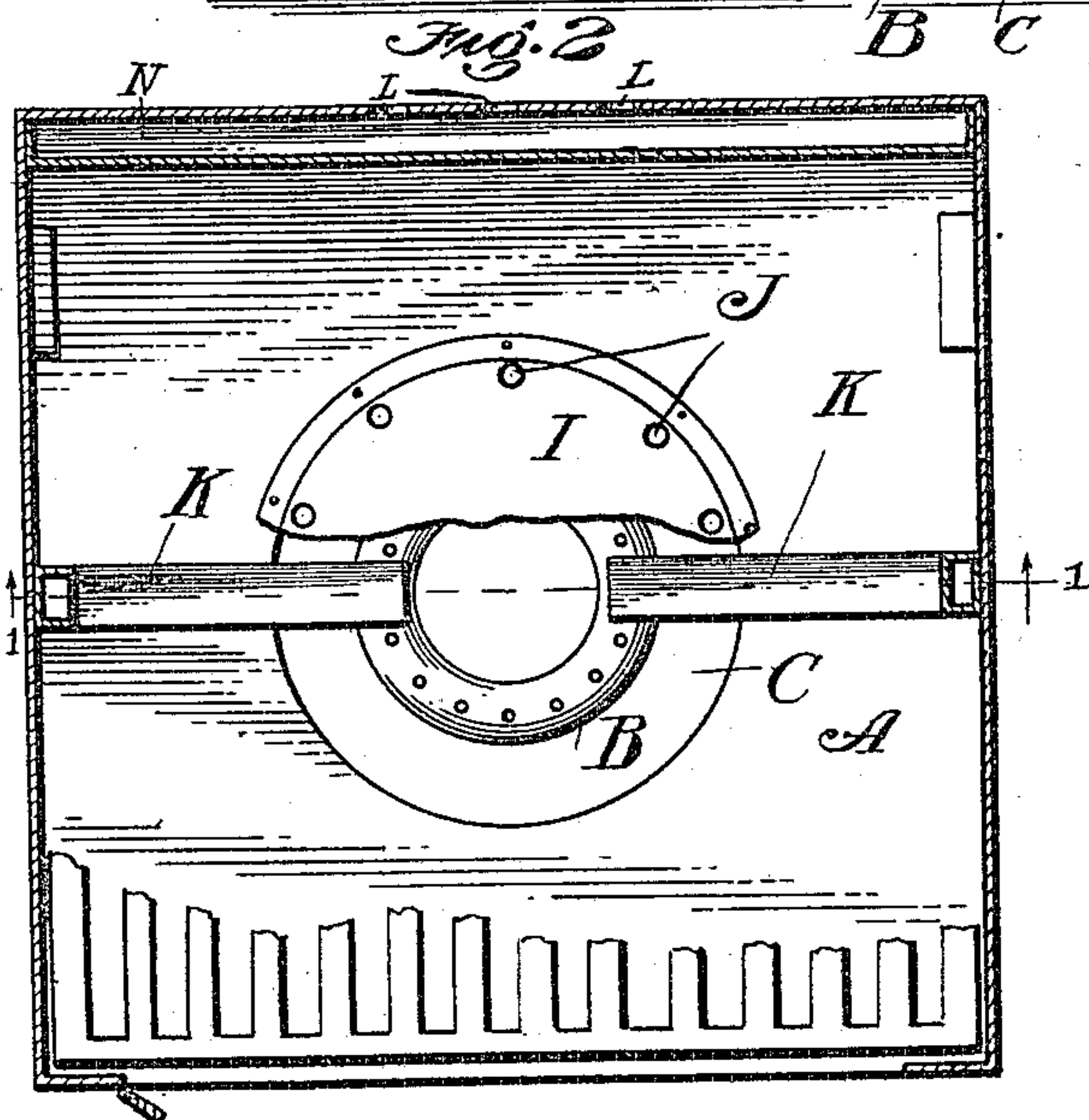
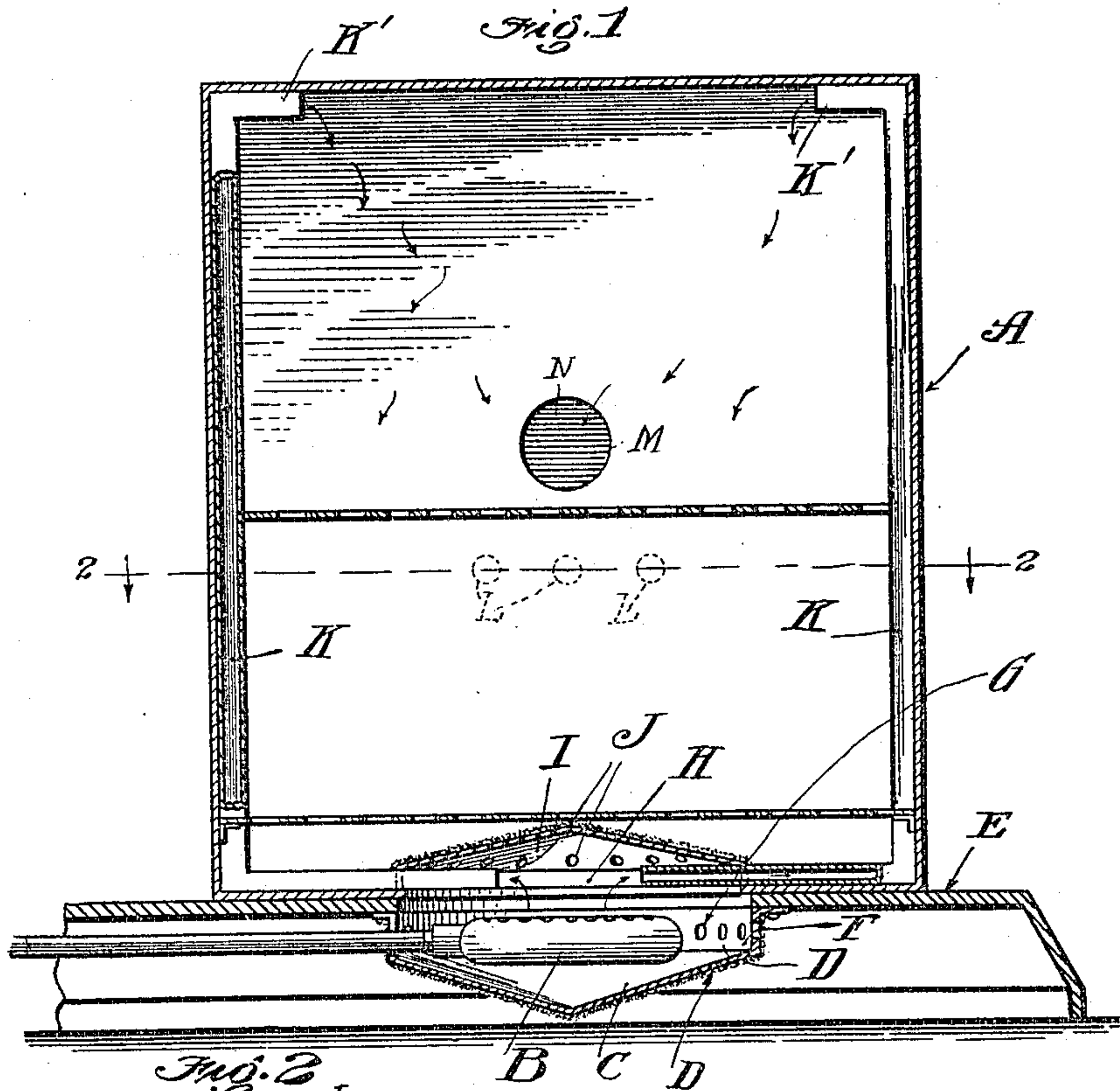
No. 819,775.

PATENTED MAY 8, 1906.

N. D. LOUGHREY.

STOVE.

APPLICATION FILED MAR. 6, 1905.



Witnesses
Samuel A. Strouse,
Margaret S. Nickelson.

Inventor
Nellie D. Loughrey
by Hazard & Harpam,
Attorneys.

UNITED STATES PATENT OFFICE.

NELLIE D. LOUGHREY, OF LOS ANGELES, CALIFORNIA.

STOVE.

No. 819,775.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed March 6, 1905. Serial No. 248,732.

To all whom it may concern:

Be it known that I, NELLIE D. LOUGHREY, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Stoves, of which the following is a specification.

My invention relates more particularly to gas-stoves in combination with the baking-oven placed thereon; and it consists in limiting the amount of gas fed to the burner and also in conveying a portion of the products of combustion from the combustion-chamber to the top of the oven and discharging the same into the top of the oven.

The object of my invention is to provide a combined stove and oven, in which the products of combustion pass into the oven, that will limit the amount of air fed to the burner and at the same time convey a portion of the products of combustion from the combustion-chamber to the top of the oven, and thereby more uniformly distribute the heat throughout the oven, and by limiting the amount of air fed to the burner to economize in the use of fuel. I accomplish these objects by means of the device described herein and shown in the accompanying drawings, in which—

Figure 1 is a vertical central section of my improved combined stove and oven, the burner being shown in elevation. Fig. 2 is a transverse horizontal section taken on lines 2 2 of Fig. 1 looking in the direction indicated by the arrow-heads thereon, a portion of the grate being broken away and also the perforated cone-shaped top over the burner for clearness of illustration.

In the drawings, A is the oven, and B is the gas-burner disposed thereon. This burner is of ordinary well-known construction and is ordinarily placed underneath the oven and the products of combustion passing directly into the oven. Now to utilize all the heat produced by the burner I have provided means whereby the amount of air fed to the burner may be limited and at the same time prevent the radiation of heat downwardly from the burner by placing thereunder the cone-shaped shield C, below which

I have placed a layer of asbestos D. Surrounding the burner and connecting the shield with the top of the stove-frame E, I have placed an annular ring F, having perforations G therethrough for the admission of air into the combustion-chamber H, formed by the union of the cone-shaped shield and the conical-shaped deflector I. On the bottom of the oven and immediately over the burner I have placed the conical-shaped deflector I, having ports J therethrough for the passage of the products of combustion into the oven. These ports are limited in number and size, so as to permit only a portion of the products of combustion to pass directly into the oven and pass upwardly therefrom. The balance of the products of combustion pass into the flues K, of which there are two. These flues extend from a point in the combustion-chamber immediately above the burner and extend therefrom outwardly to the side of the oven and extend along the side of the oven upwardly and discharge products of combustion at the top of the oven, as at K'. The products of combustion pass from the oven through the opening M into the chamber N, from which they escape through the holes L.

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

The combination with an oven having air-flues which extend upward from a point between the center of the bottom of the oven to the sides, then upwardly and discharging into the oven at the top, of a burner and a perforated cone-shaped shield and a deflector, one above and the other below the burner, the upper one inclosing the ends of the flues whereby a portion of the products of combustion pass directly into the oven, and the remaining portion through the flues and discharging into the upper end of the oven.

In witness that I claim the foregoing I have hereunto subscribed my name this 27th day of February, 1905.

NELLIE D. LOUGHREY.

Witnesses:

HENRY T. HAZARD,
G. E. HARPAM.