

(No Model.)

W. C. JONES.

GAS RETORT.

No. 396,746.

Patented Jan. 29, 1889.

Fig. 1.

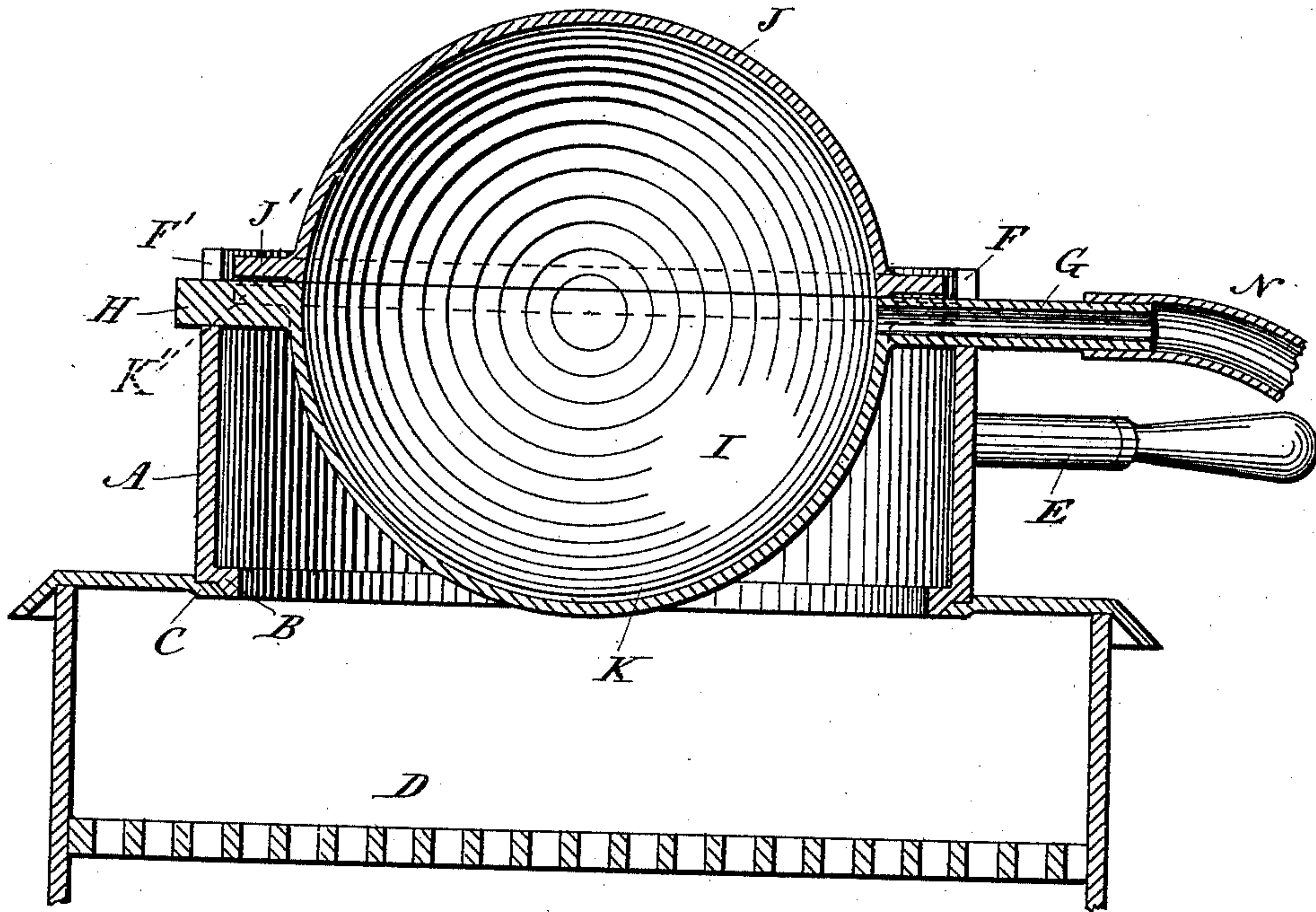
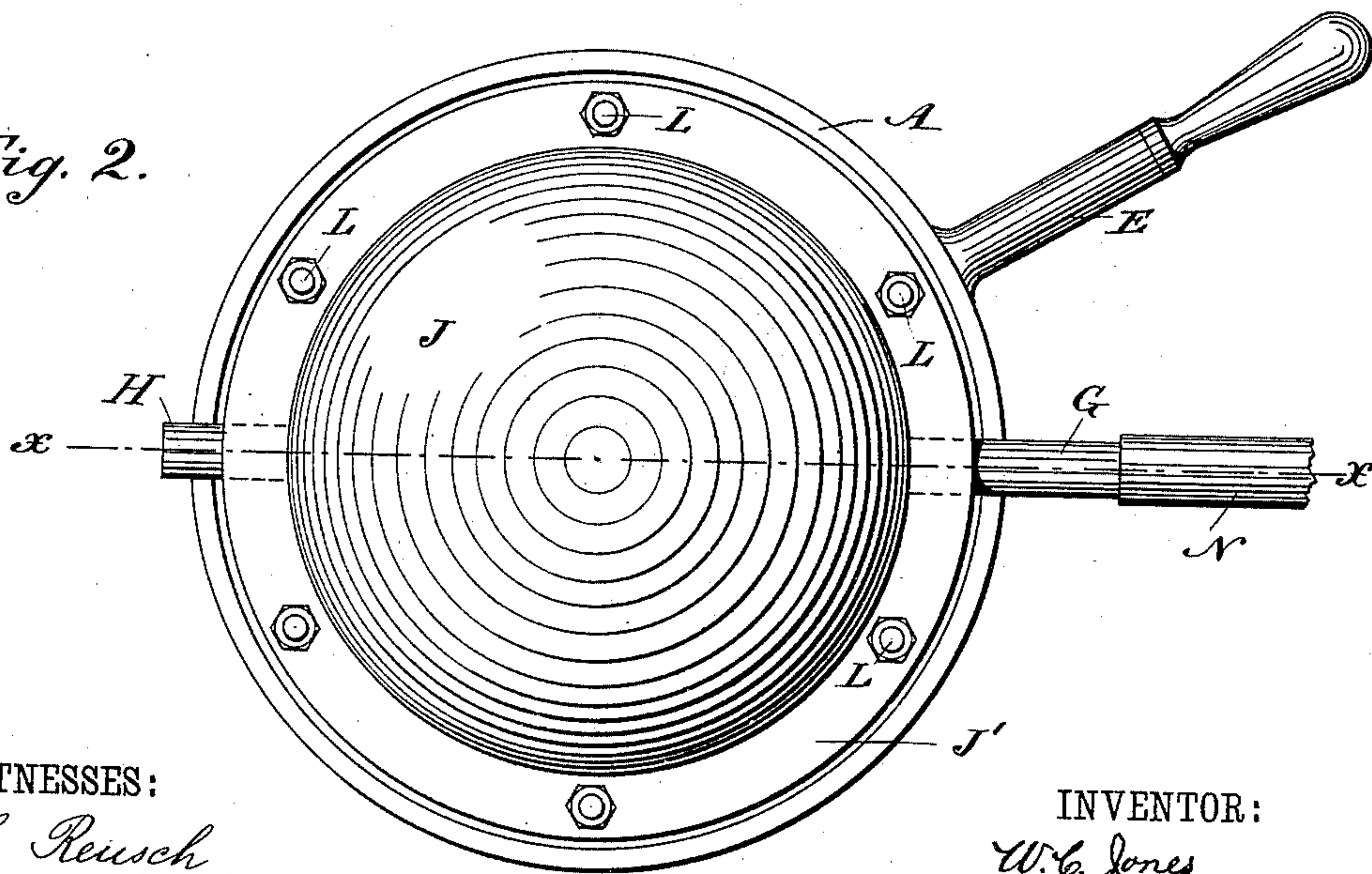


Fig. 2.



WITNESSES:

D. C. Reusch
C. Sedgwick

INVENTOR:

W. C. Jones

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WESLEY C. JONES, OF WAXAHACHIE, TEXAS.

GAS-RETORT.

SPECIFICATION forming part of Letters Patent No. 396,746, dated January 29, 1889.

Application filed December 1, 1887. Serial No. 256,602. (No model.)

To all whom it may concern:

Be it known that I, WESLEY CORRY JONES, of Waxahachie, in the county of Ellis and State of Texas, have invented a new and Improved Gas-Retort, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved retort for generating gas for illuminating or other purposes from stone coal, and being specially adapted to be used on cooking-stoves.

The invention consists of a fire-pot fitting onto the eye of a stove, of a spherical retort held to turn on the said fire-pot and made of two parts, and of a gas-outlet formed in one of the trunnions of the retort.

The invention also consists in the construction and arrangement of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a sectional elevation of my improvement on the line $x\ x$ of Fig. 2 and in place on a stove. Fig. 2 is a plan view of the same.

My improvement is provided with a fire-pot, A, of suitable material and preferably cylindrical in shape, having at its lower end the inwardly-extending annular flange, B, fitting onto the flange C of the eye of an ordinary cooking-stove, D, of any approved construction.

In the upper end of the fire-pot A are formed diametrically opposite each other the slots F and F', into which fit and rest the trunnions G and H, secured or formed on the retort I, preferably made of two hollow half-spheres, J and K, provided on their bases with the outwardly-extending annular flanges J' and K', respectively, secured together by bolts L or other suitable means.

The trunnion G is hollow and opens into the interior of the retort I, and on its outer end is secured one end of a flexible tube or hose, N, leading to a receptacle in which the gas generated in the retort I is to be stored.

The fire-pot A is provided with one or more

handles, E, for conveniently placing the pot onto the stove D or to remove it from the same.

The operation is as follows: The retort I is filled with coal by removing the upper half, J, and then placing the coal in the lower half, K, after which the upper half is again secured to the half-sphere K by the bolts L. The fire-pot A is then placed over the eye of the stove D and the retort is placed on the fire-pot A with the trunnions G and H resting in the slots F and F'. The heat from the stove D now passes into the fire-pot A and around the lower half, K, of the retort I, whereby the latter is heated and the coal stored in the said retorts generates gas, which can pass out through the hollow trunnion G and into the flexible tube N, from which the gas can flow into a suitable receptacle to be stored. The retort I is turned around on its trunnions G and H after the lower half-sphere, K, is thoroughly heated, so that the other half-sphere, J, is now exposed to the heat from the stove D. In this manner I am enabled to heat the entire retort and the coal it contains, whereby all the coal is coked and utilized to generate gas.

It will be seen that by making the retort in two halves I am enabled to place the coal conveniently into the retort and to remove the coals after all the gas contained in the coal is generated.

I am aware that cylindrical retorts with center openings and held in a fire-pot have been made, and hence I do not claim, broadly, such retorts; but

What I do claim, and desire to secure by Letters Patent, is—

1. The combination, with a fire-pot open at both ends, with its lower end constructed to fit the eye or lid-opening of a cook-stove, of a gas-retort made in two halves and provided with trunnions having their bearings in the said fire-pot, one of the said trunnions being hollow and connected with a pipe for leading off the gases generated in the retort, substantially as shown and described.

2. The combination, with a fire-pot open at both ends, with its lower end constructed to fit the eye or lid-opening of a cook-stove, of a spherical gas-retort made in two halves secured

together, trunnions formed on the said retort and adapted to turn in bearings on the said fire-pot, one of the said trunnions being hollow and opening into the interior of the said
5 retort, and a tube connected with the said hollow trunnion for leading off the gases generated in the said retort, substantially as shown and described.

3. A spherical gas-retort made in two halves
10 bolted together at their bases, and trunnions formed on the said retort for turning the same, one of the trunnions being hollow and opening into the interior of the said retort, substantially as shown and described.

15 4. The combination, with the cylindrical

fire-pot A, open at both ends, the lower end being constructed to fit the eye of a cooking-stove, and the upper end having opposite slots F F, of the spherical revoluble retort J, formed
of two separable parts having flanges J' K' 20 at their meeting edges, and trunnions H G, turning in said slots, the trunnion G being hollow and communicating with the interior of the retort, and the bolts L, securing the flanges together, substantially as set forth.

WESLEY C. JONES.

Witnesses:

R. W. BEALE,

CHAS. O. DONNELLY.