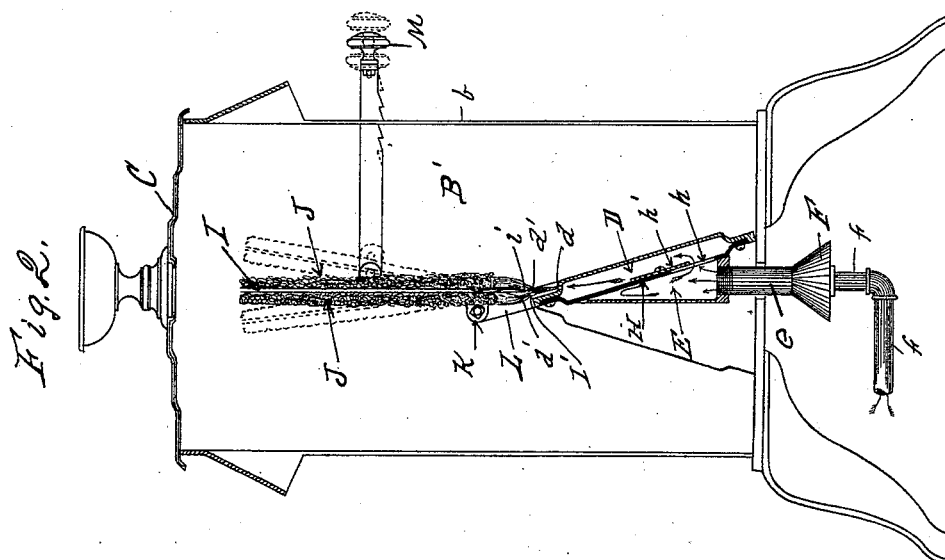
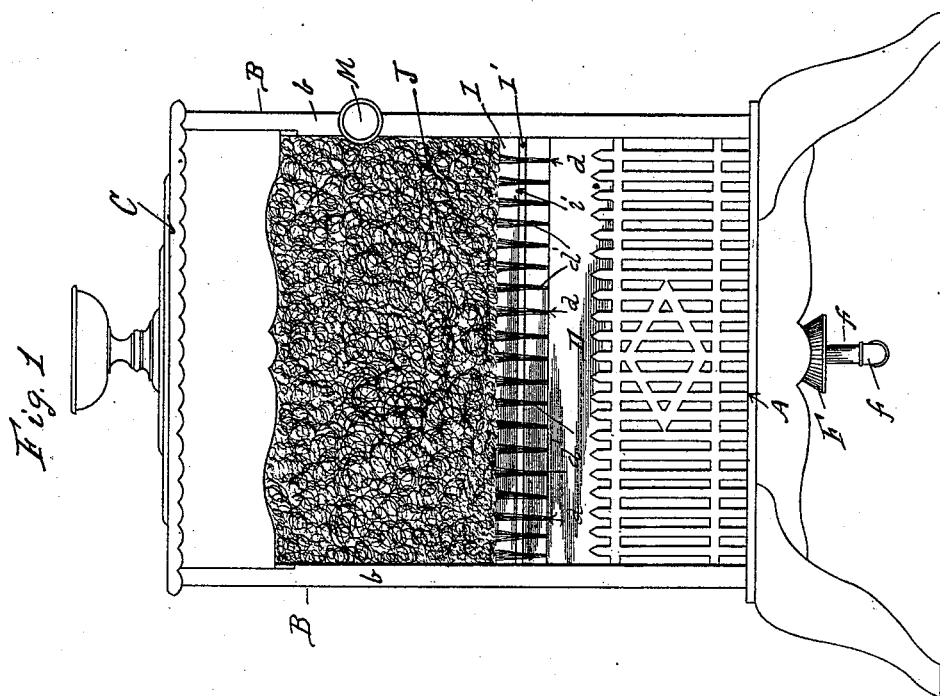


(No Model.)

C. H. MILLER.
GAS STOVE.

No. 525,109.

Patented Aug. 28, 1894.



WITNESSES.

J. Einfeldt
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By *H. Sturgeon*
Att'y.

UNITED STATES PATENT OFFICE.

CHARLES H. MILLER, OF ERIE, PENNSYLVANIA.

GAS-STOVE.

SPECIFICATION forming part of Letters Patent No. 525,109, dated August 28, 1894.

Application filed November 24, 1893. Serial No. 491,868. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. MILLER, a citizen of the United States, residing at the city of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Gas-Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention consists in the improvements in gas stoves hereinafter set forth and explained, and illustrated in the accompanying drawings, in which—

Figure 1. is a front view in elevation of my improved gas stove. Fig. 2. is a transverse vertical central section of the same.

In the construction of my improved gas stove, shown in the drawings, A is the base, B, B' the ends and C the top of the stove.

Secured to the base A, between the ends B, B' is a chamber D extending entirely across the stove, and in the upper edge of the chamber D are a series of small holes *d* which form the exits of the gas fuel to be burned.

Secured to the rear of the chamber D is a second chamber E into the bottom of which a nipple *e* is secured, to which nipple an ordinary gas and air mixer F and the gas supply pipe *f* are secured, by means whereof a supply of gas intermixed with sufficient air to facilitate the proper combustion thereof is supplied to the chamber E. In the lower part of the portion H between the chambers D and E is an opening *h* which is provided with an adjustable slide *h'* by means whereof the area of the opening *h* may be increased or diminished, so as to vary the amount of mixed gas and air passing from the chamber E to the chamber D and thence out through the openings *d* to be consumed. Above the openings *d* in the chamber D is a vertical flame deflecting and radiating plate I covered on both sides with asbestos wool J, against which the

jets *d'* of burning gas and air arising from the openings *d* impinge; this plate I is provided at its ends, a short distance above the lower edge thereof, with laterally projecting ears K which are pivoted to projections L at the ends of the upper part of the chamber D by means whereof the plate I is supported; the lower edge *i* of the plate I being a short distance above the gas fuel exit opening *d* leaving an opening *l'* under the lower edge *i* of the plate I which allows the air to pass up freely on both sides of the plate. To one end of the plate I is also pivoted a handle M which projects through a slot in the flange *b* on the end B' of the stove, by means whereof the plate I can be swung forward or back from a vertical position, as illustrated in dotted lines in Fig. 2, for the purpose of throwing the jets of flame *d'* on one side or the other of the plate I, or maintained in a vertical position, so that the jets *d'* of flame will pass up on both sides of the plate.

It will be observed that my improved gas stove is open both at the front and back, and that it is not provided with a pipe for carrying off the products of combustion, as the combustion of the gas fuel in this construction is so complete that these features are deemed unnecessary.

Having thus fully described my invention, so as to enable others to construct and use the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination in a gas stove, of a horizontal gas fuel burner provided with a longitudinal row of gas exit openings at or near the top thereof, a vertical flame deflecting and radiating plate above said gas exit openings, pivoted a short distance above the lower edge thereof, so that said plate can be oscillated, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES H. MILLER.

Witnesses:

F. J. BASSETT,
F. EINFELDT.