

A. H. HUMPHREY.
GAS STOVE.
APPLICATION FILED DEC. 29, 1917.

1,358,155.

Patented Nov. 9, 1920.
2 SHEETS—SHEET 1.

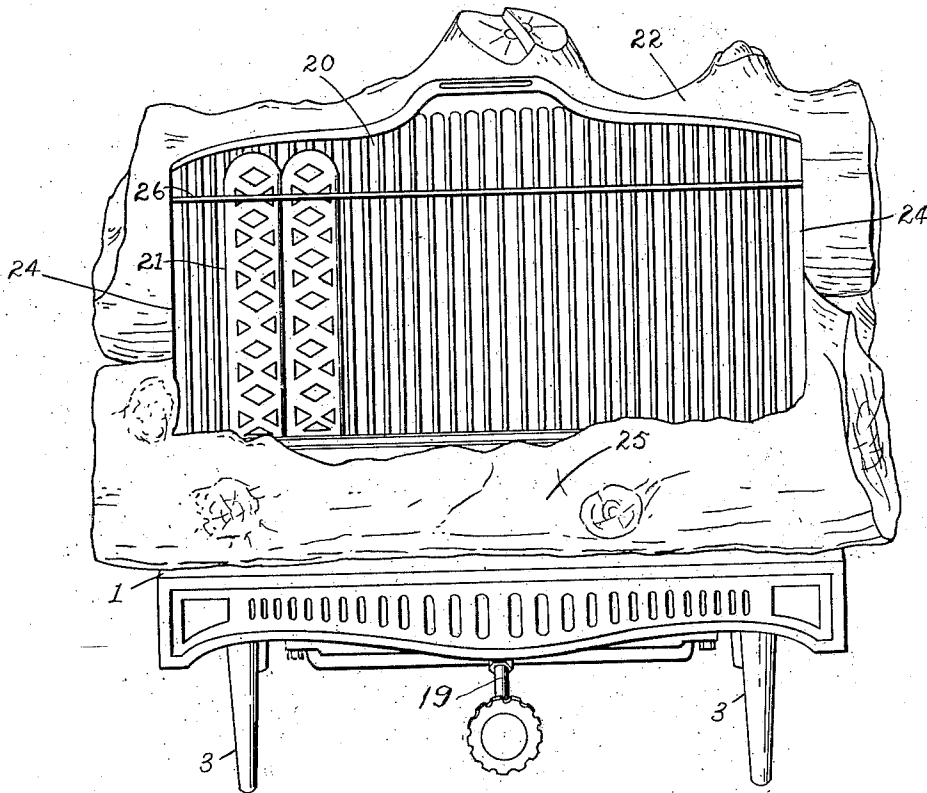


Fig. I.

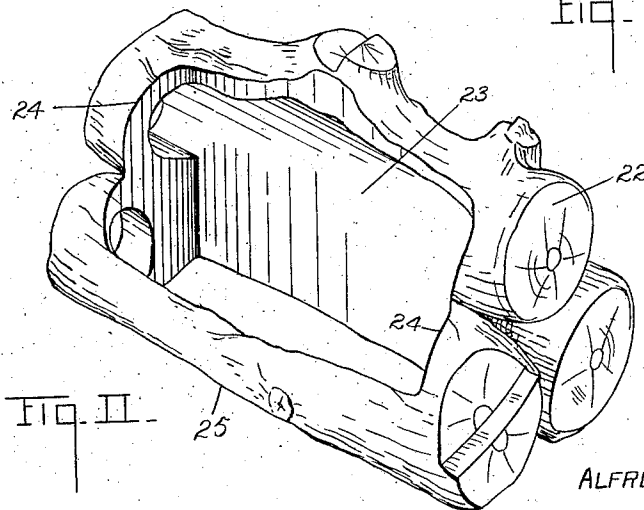


Fig. II.

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2 SHEETS—SHEET 2.

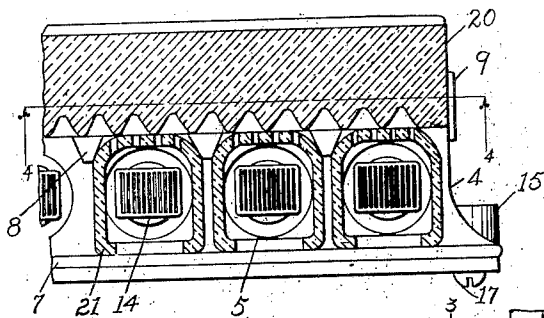


FIG. III.

FIG. IV.

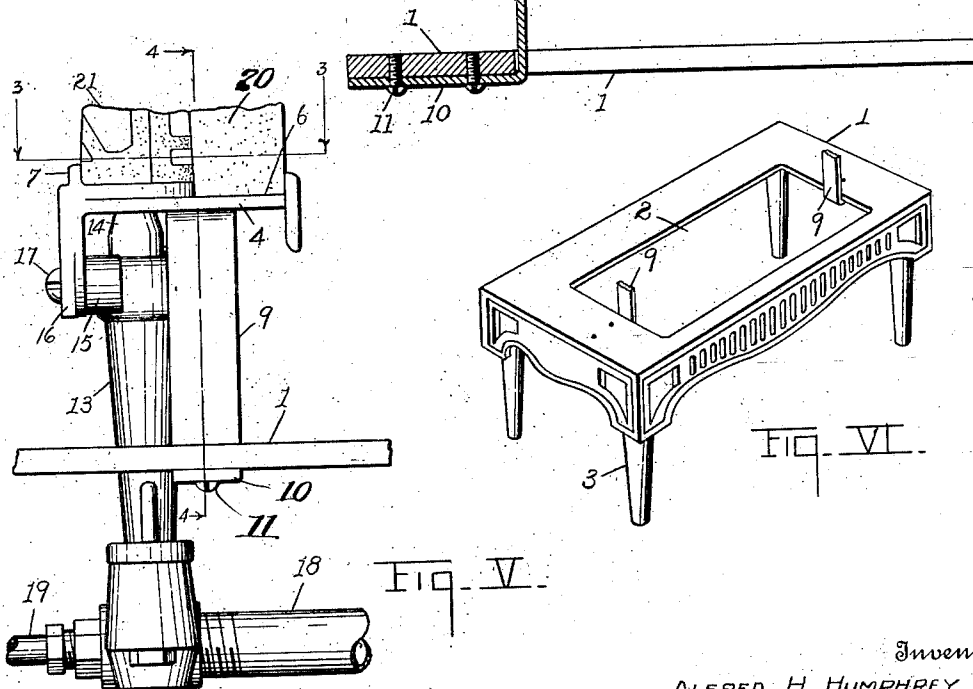


FIG. V.

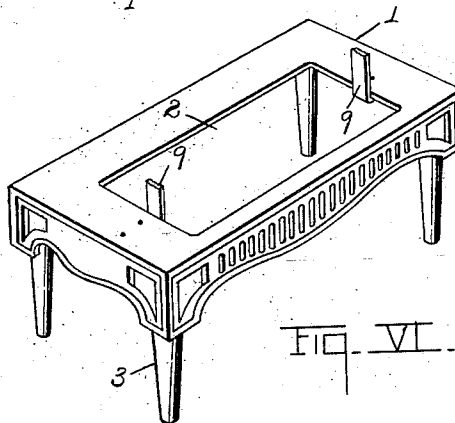


FIG. VI.

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UNITED STATES PATENT OFFICE.

ALFRED H. HUMPHREY, OF NEW YORK, N. Y.

GAS-STOVE.

1,358,155.

Specification of Letters Patent.

Patented Nov. 9, 1920.

Application filed December 29, 1917. Serial No. 209,536.

To all whom it may concern:

Be it known that I, ALFRED H. HUMPHREY, a citizen of the United States, residing at the city of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Gas-Stoves, of which the following is a specification.

This invention relates to improvements in gas stoves.

The main objects of this invention are:

First, to provide an improved gas stove of high efficiency which is very simple and economical in structure.

Second, to provide an improved gas stove which is ornamental in character, the ornamental features at the same time possessing structural advantages.

Third, to provide an improved gas stove in which the parts subjected to heat may be formed of material particularly well adapted to withstand the heat.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which:

Figure I is a front perspective view of a gas stove embodying the features of my invention.

Fig. II is a perspective view of the body or casing member somewhat reduced.

Fig. III is a detail horizontal section through the radiating elements and fire back on a line corresponding to line 3—3 of Figs. IV and V.

Fig. IV is a detail vertical section on a line corresponding to line 4—4 of Figs. III and V, the fire back being shown in front elevation.

Fig. V is a detail end view with the casing or body member removed.

Fig. VI is a perspective view of the base with part of the burner plate supporting bracket broken away.

In the drawing similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawings, I provide a base 1, preferably a casting, having a central rectangular opening 2 therein. The base illustrated is provided with legs 3. I provide a burner plate 4 which in the structure illustrated has a plurality of burner openings 5, a channel 6 at the rear of the openings, a flange 7 at the front and lugs 8 positioned between the openings. This plate is supported in an elevated position above the opening 2 of the base by means of the yoke-shaped bracket 9 which has laterally extending ends 10 secured to the under side of the base 1 by the screws 11. The burner plate is secured to the cross portion of the yoke by means of the screws 12. The multiple burner 13 has a plurality of burner tips 14 which are disposed in alinement with the burner openings 5. The burner 13 has projecting lugs 15 at its ends secured to the depending lugs 16 by means of the screws 17.

The gas supply pipe 18 is connected to the burner from the rear. The delivery of gas to the burner is controlled by a valve having a stem 19 projecting centrally at the front below the base.

A fire back 20 of earthenware material is mounted in the channel 6 of the burner plate. In front of the fire back 20 and between the flange 7 and positioning lugs 8 I arrange the radiants or radiating elements 21 which are positioned and supported by these parts above the burner openings and the burner tips. These radiants are tubular in form with openings of suitable design, the openings of the radiants shown being more or less conventional.

I provide a body member 22, preferably of earthenware material consisting of a back wall portion 23, end wall portions 24 and a front portion 25. The body member is of such size as to embrace the burner plate and the fire back and rest upon the base plate, no attaching means to the base plate being required as the body member when formed of earthenware material is of considerable weight. The front portion 25 is disposed below and in front of the burner plate so that the radiants are exposed. To prevent the radiants tilting forwardly I provide a cross rod 26 carried by the body member.

With the parts thus arranged they are comparatively simple and economical to produce and assemble. The structure is highly ornamental in appearance and well

adapted for use in a grate in lieu of a gas log or the like.

I have illustrated and described my improvements in one form in which I have embodied the same in practice. I have not attempted to illustrate or describe other embodiments and adaptations which I contemplate as I believe the disclosure made will enable those skilled in the art to which my invention relates to embody or adapt the same as may be desired.

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

1. In a gas stove, the combination of a supporting base having an opening therethrough, a burner plate having burner openings therein supported on said base in an elevated position above said opening therein, a multiple burner disposed in said base and provided with burner tips alined with said burner openings of said burner plate, a fireback removably seated on said burner plate radiating elements removably seated on said burner plate in front of said fireback and above said burner openings, and a body member of earthenware material having a vertical opening therethrough disposed on said base and surrounding the parts of the burner above the base, the burner plate and fireback, and constituting a housing therefor, said body member being removable independently of said fireback and radiating elements, the upper portion of the front wall of said body member being omitted to expose the radiants.

2. In a gas stove, the combination of a supporting base having an opening therethrough, a burner plate having burner openings therein supported on said base in an elevated position above said opening therein, a multiple burner disposed in said base

and provided with burner tips alined with said burner openings of said burner plate, a fire back removably seated on said burner plate, radiating elements removably seated on said burner plate in front of said fireback and above said burner openings, and a body member having a vertical opening therethrough disposed on the base and surrounding the parts of the burner above the base, said burner plate and fireback, and constituting a housing therefor, said body member being removable independently of said fireback and radiating elements, the upper portion of the front wall of said body member being omitted to expose the radiants.

3. In gas stove, the combination of a supporting base having an opening therethrough, a burner plate having burner openings therein supported on said base in an elevated position above said opening therein, a multiple burner disposed in said base and provided with burner tips alined with said burner openings of said burner plate, a fireback removably seated on said burner plate, radiating elements removably seated on said burner plate in front of said fireback and above said burner openings, and a body member comprising back, end and front walls disposed on said base and surrounding the parts of the burner above the base, the burner plate and fireback, and constituting a housing therefor, said body member being removable independently of said fireback and radiating elements, the upper edge of the front wall being in about the plane of the burner plate to expose the radiants.

In witness whereof I have hereunto set my hand and seal.

ALFRED H. HUMPHREY. [L. s.]