C. L. DICKERMAN & W. NEWMAN.

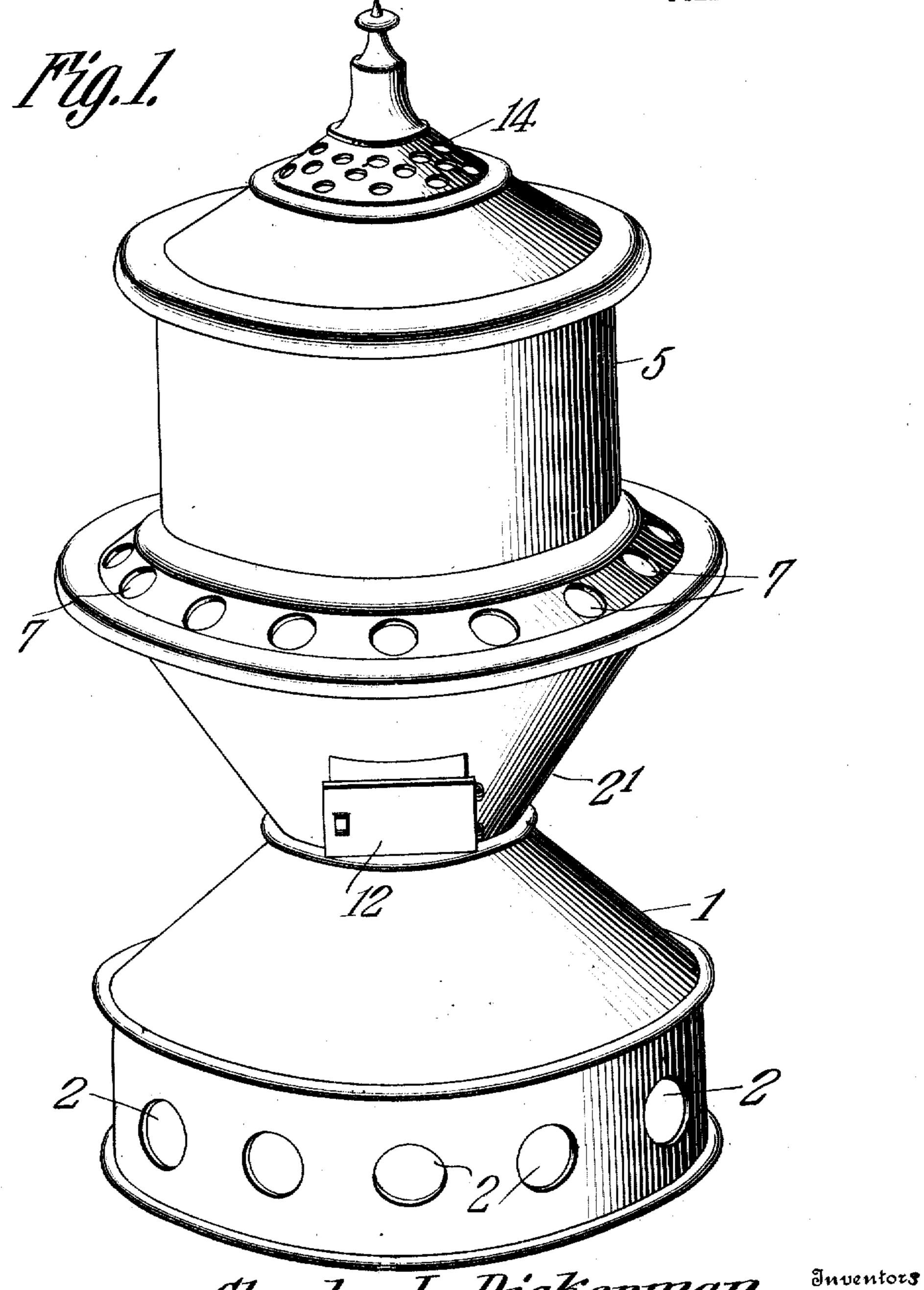
GAS STOVE.

APPLICATION FILED JUNE 17, 1908.

908,451.

Patented Jan. 5, 1909.

2 SHEETS-SHEET 1.



Charle L. Dicherman Wilson Neuman

Witnesses

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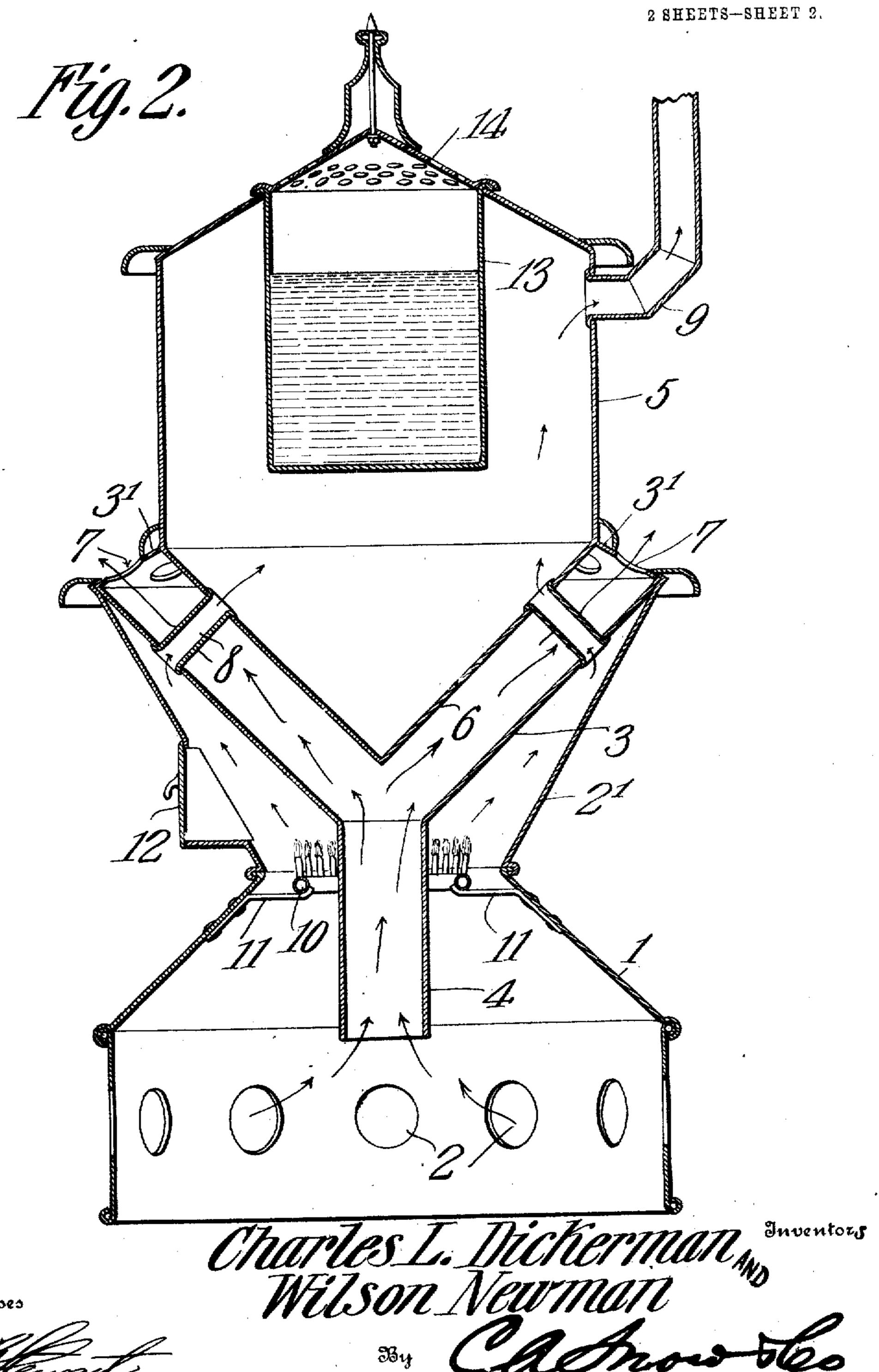
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UNITED STATES PATENT OFFICE.

CHARLES L. DICKERMAN AND WILSON NEWMAN, OF ARDMORE, OKLAHOMA.

GAS-STOVE.

No. 908,451.

Specification of Letters Patent.

Putented Jan. 5, 1900.

Application filed June 17, 1908. Serial No. 439,062.

To all whom it may concern:

MAN and Wilson Newman, citizens of the pended a moisture vessel 13, concealed by a United States, residing at Ardmore, in the | perforated cover 14. 5 county of Carter, State of Oklahoma, lave invented a new and useful Gas - Stove, of which the following is a specification.

This invention relates to gas stoves, and has especial reference to that class of gas stoves which are constructed and arranged to radiate heat, and to distribute heated air

into a room er apartment.

The object of this invention is to provide a gas stove with as large a radiating surface 15 as possible and so constructed as to extract the greatest possible number of heat units. from a cubic foot of gas.

A further object of the invention is to obtain a complete circulation of air and instan-29 taneous heating and distribution of heated air, and to provide for the best suitable discharge of heated air into a room.

These objects are accomplished by a gas stove, constructed and arranged as herein-

25 after set forth and claimed.

Referring to the accompanying drawings:---Figure 1 is a view in elevation of a gas stove constructed in accordance with this invention. Fig. 2 is a vertical section thereof 30 showing the interior construction of the stove.

The stove constructed in accordance with this invention consists of a suitable base 1, provided with openings 2, for the admission 35 of cold air; a fire box 2' having tapering or inclined sides; a conical radiator 3, mounted in the fire box 2', and having a depending funnel 4, projecting down into the base 1, for the passage of cold air; and a heat radiat-10 ing drum 5 mounted on the radiator 3, and having a conical heat radiating bottom 6, depending above the radiator 3, and forming thorewith an inclined or tapering air chamber. The top of the radiator 3, which con-45 sists of an inclined annular strip 3' connected | sides mounted on and suspended in the fire 100 to the drum 5 and facing upwards, is pro- | box, and having an air inlet funacl suspendvided with openings 7 for the discharge of | ed in the base chamber, and an annulur inheated air. The fire box 2' communicates | clined strip with air onliet openings facing with the hot air drum 5, by means of short ! upwards, at the top of the radiator, a hot 50 tubes 8, mounted in the bottom 6 of the jair drum surmounting the radiator and hav 105 drum and in the radiator. The dram 5 is ling a cone shaped become depending above provided with an outlet pipe 9 for the dis ! the same, and forming therewith an acc charge of fumes from the fire box. A circu-, chamber, and air passage tubes extending lar burner 10 is mounted on brackets 11, on jacross said air chamber and connecting the 55 the base 1, and encircles the funnel 4, at its i hot air drum with the five box.

o all whom it may concern:

| upper end. The fire box is provided with a Be it known that we, Charles L. Dicker- | door 12. In the top of the drain 5 is sus-

The operation of the stove is as follows: Cold air enters the inlet openings 2, passes up the funnel 4, up the tapering chamber, between the bottom of drum 5, and the rediator 3 and out through the outlet openings. 7. Air entering through the fire box is 65heated and passing up through the same, passes through the short tubes 8, into the drum 5. In the passage of the cold air up the tapering chamber between the heat radiating bottom 6 of the drum 5, and the raradiator 3, it becomes instantly heated, and passing out through the openings 7, heated air is thereby discharged into the room or apartment. By having the openings 7 arranged as described, the heated air will be 75 admitted to the room at points best suited to the comfort of persons scated or standing near the stove. It will be seen that with the heat radiating surfaces of the drum, the radiator, and the fire box, as large a heat ra- 80 diating surface as possible is provided.

Having described the invention, we claim: 1. A gas stove consisting of a ventilating base, a cone shaped fire box with an open bottom surmounting the base, a cone shaped as radiator mounted on the fire box and suspended therein, with an air inlet funnel depending in the base, a hot air drum surmounting the radiator, and having a coneshaped bottom depending above the radia- 90 tor, and forming therewith an air chamber having air outlet openings, and air passage tubes extending across said air chamber and connecting the fire box with the heating drum.

2. A gas stove consisting of a base chamber with air inlet openings, a fire box with tapering sides and open bottom surmounting said hase chamber, a radiator with tapering

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- 3. A gas stove, consisting of a ventilating | spaced from the radiator to form an air base, a fire box surmounting said base, a passage immediately over the fire-box. ing air outlets in its upper side, and an air ! 5 inlet funnel in its bottom suspended in the shaped bottom depending above the radi- at the apex thereof and having its walls ator, and forming therewith an air passage concentric with the bottom of the drum, to chamber, communicating with the air inlet means for conveying products of combustion 35 funnel and the air outlets, and air passage | from the space between the radiator and the tubes extending across said air chamber and | walls of the fire-box to the interior of the connecting the hot air drum with the fire l drum, there being an annular series of outbox.
- 15 4. A gas stove comprising a fire-box having air inlets, a drum having a conical bot- | the radiator to form an air passage immetom projecting into the fire-box, an inverted | diately over the fire-box. conical radiator interposed between the bottom of the drum and the walls of the fire-20 box, said radiator having an inlet for the reception of air to be heated, and means for conveying products of combustion from the space between the radiator and the walls of the fire-box to the interior of the 15 druin said drum having an outlet, and being

radiator suspended in the fire box, and hav- 5. A gas stove comprising a fire-box, a drum having a conical bottom extending thereinto, a conical radiator interposed be- 30 fire box, and base, a hot air drum, sur- tween the bottom of the drum and the wall mounting the radiator and having a cone of the fire-box, said radiator having an inlet lets between the drum and the upperedge of the radiator, the drum being spaced from 40

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

CHAS. L. DICKERMAN. WILSON NEWMAN.

Witnesses:

CHARLEY BROWN, G. W. DAY.