

J. A. EDDY.

GAS HEATER.

APPLICATION FILED FEB. 4, 1909.

Patented July 20, 1909.

2 SHEETS—SHEET 1.

928,742.

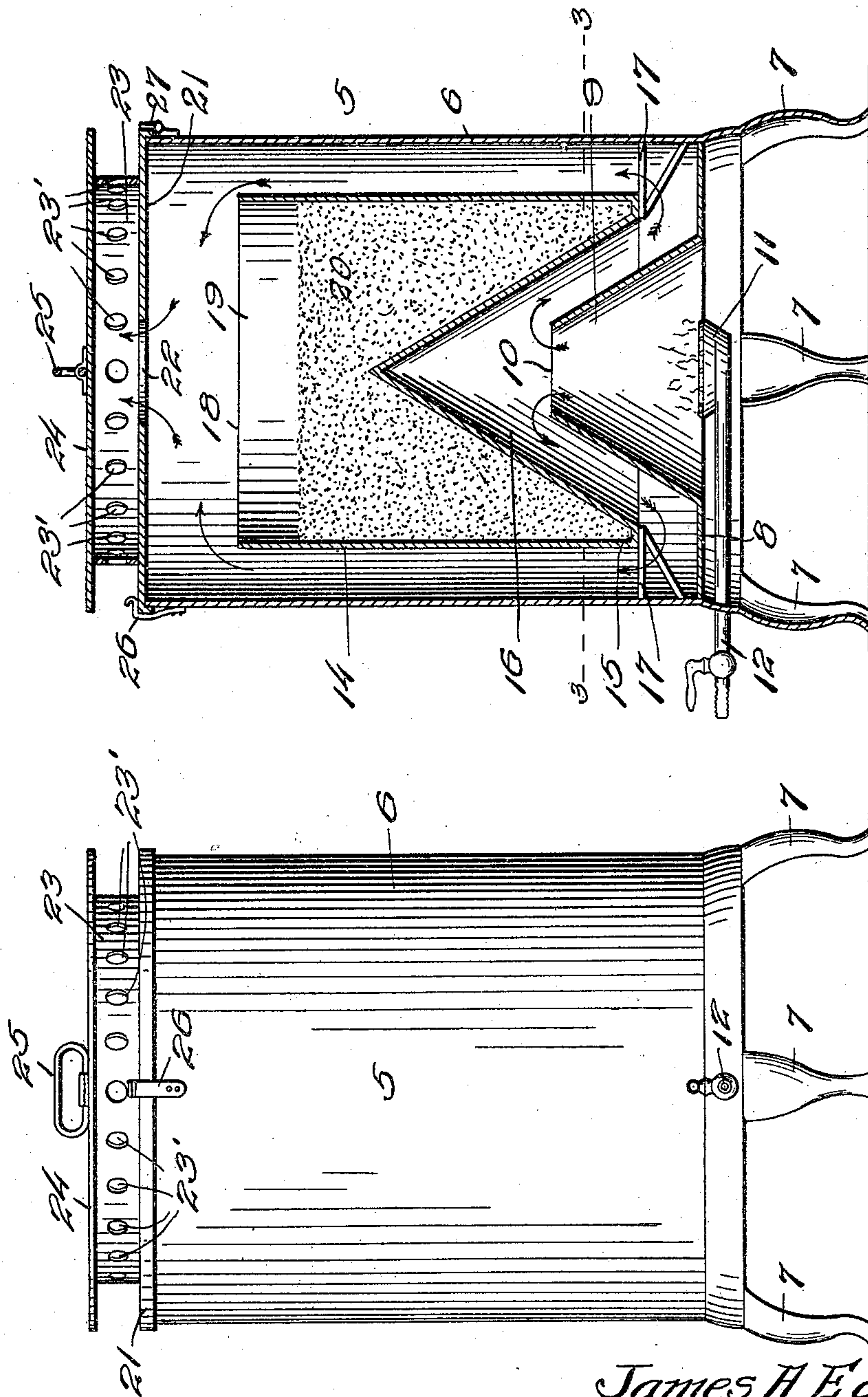


FIG. 1

FIG. 2

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FIG. 2.

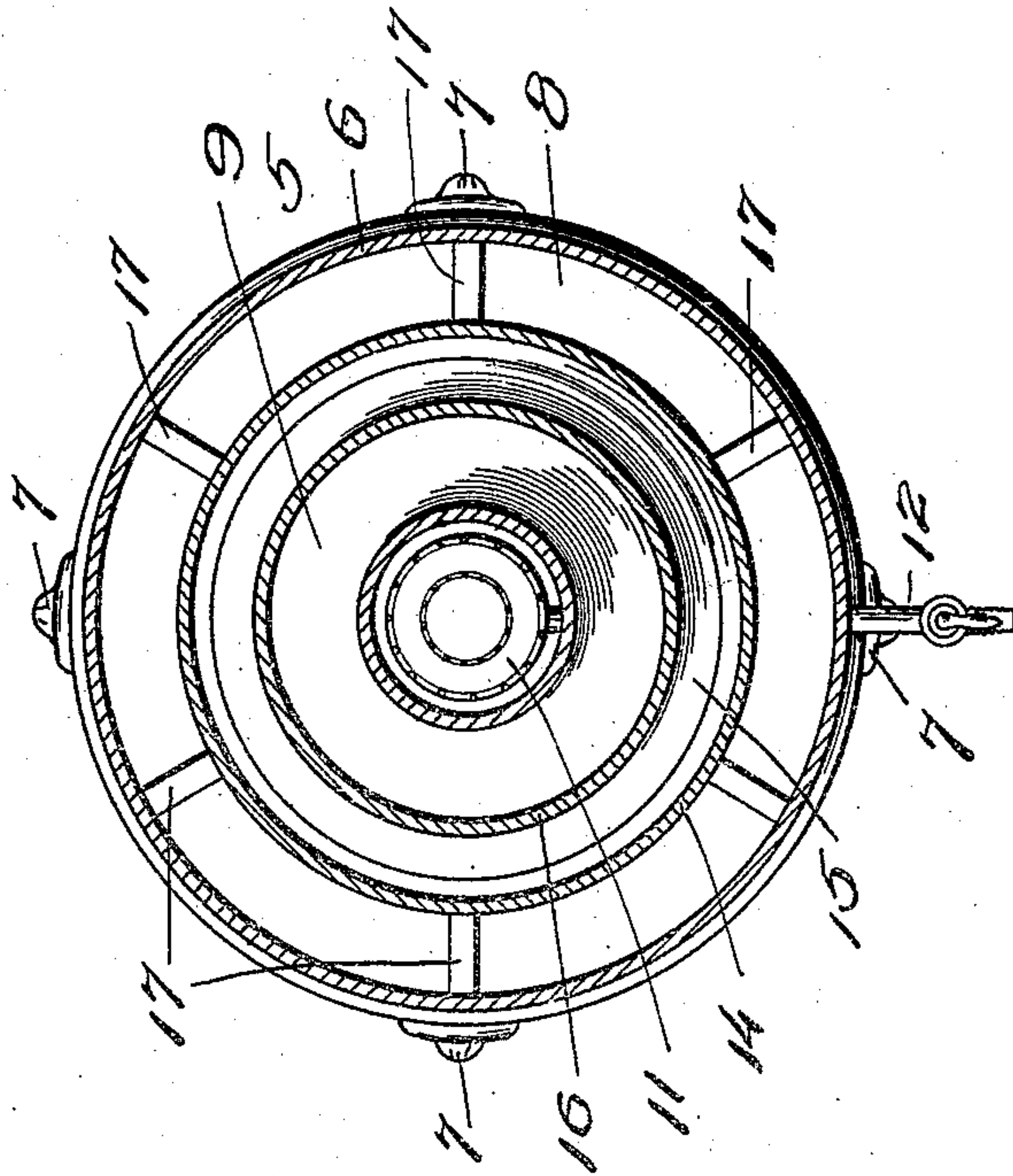
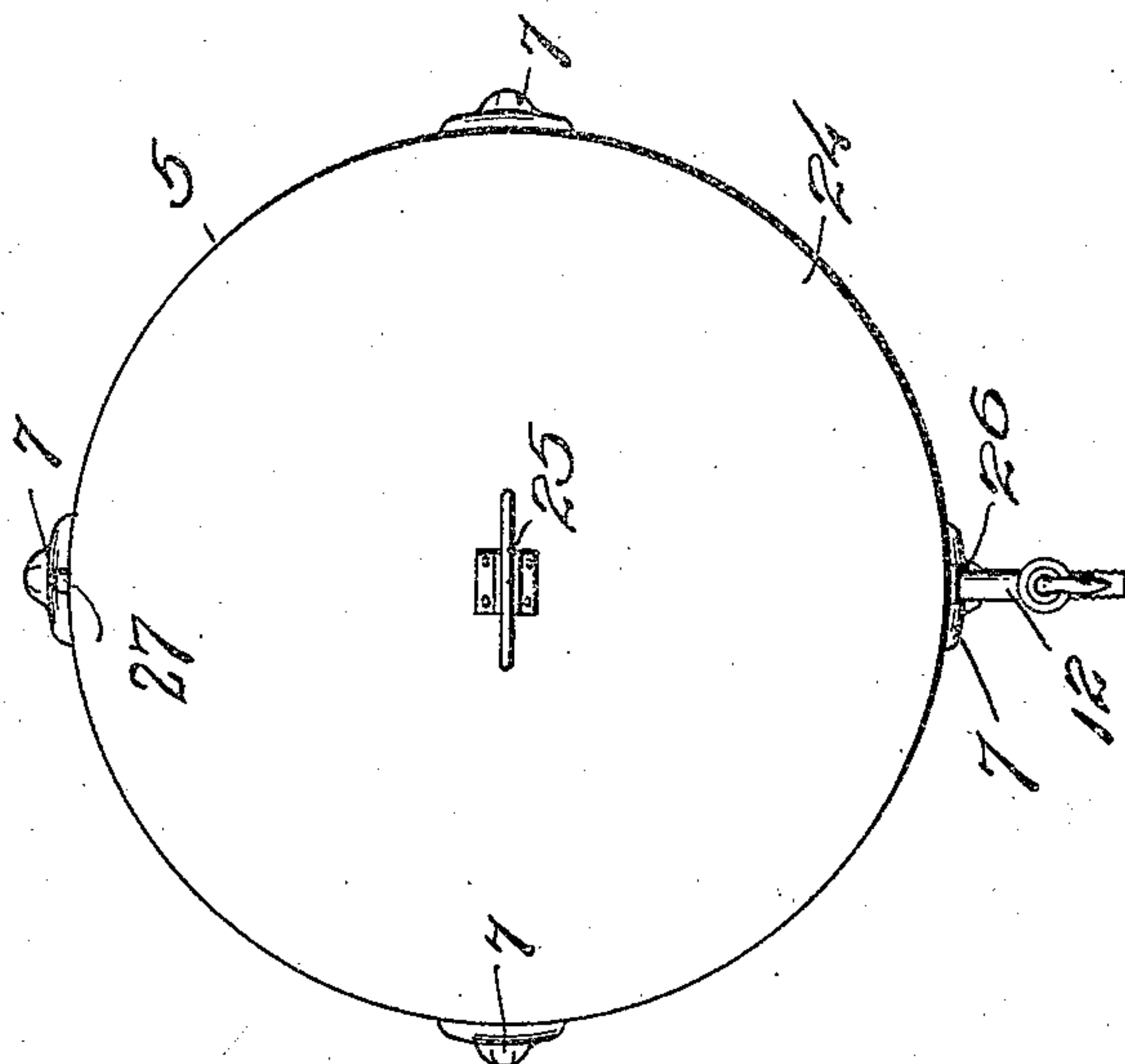


FIG. 1.



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UNITED STATES PATENT OFFICE.

JAMES A. EDDY, OF McALESTER, OKLAHOMA.

GAS-HEATER.

No. 928,742.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed February 4, 1909. Serial No. 476,128.

To all whom it may concern:

Be it known that I, JAMES A. EDDY, a citizen of the United States, residing at McAlester, in the county of Pittsburg and State of Oklahoma, have invented certain new and useful Improvements in Gas-Heaters, of which the following is a specification.

This invention relates to heating apparatus and more particularly to gas heaters, and has for its object to provide a heater so arranged that it will store heat to be radiated for a considerable time after the gas has been turned off.

Another object is to provide a structure including sand, as a heat conserving agent and embodying a structure facilitating the changing of the sand when desired.

Other objects and advantages will be apparent from the following description and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification and in which like numerals of reference indicate similar parts, in the several views, Figure 1 is a side elevation of the present heater, Fig. 2 is a vertical section through the heater, Fig. 3 is a horizontal section on line 3—3 of Fig. 2. Fig. 4 is a top plan.

Referring now to the drawings, the present invention comprises a body portion 5 including a cylindrical outer casing 6, having supporting legs 7 at its lower end. Attached to the legs 7, there is an annular bottom plate 8, secured at its outer periphery to the edge of the casing 6 and having secured to its inner edge a frusto-conical hollow member 9, open at its upper portion as shown at 10. The bottom of the member 9 is also open, and located within the lower portion of this member, there is a gas burner 11, supplied through the medium of a pipe 12.

Located within the casing 6 and disposed in spaced relation thereto, there is an inner cylindrical casing 14, having an annular bottom plate 15, to the inner periphery of which there is attached the lower edge portion of an upwardly extending conical member 16 which thus lies within the casing 14. This inner casing 14 is so disposed that the conical member 9 extends within the member 16, the inner casing 14 is stationary, the annular bottom 15 resting upon suitably shaped brackets 17 which are secured to the outer

casing 6 at its lower edge, and which extend upwardly and inwardly therefrom. The cylinder 14 has a top round edge 18, provided with an opening 19, and within the cylinder 14 there is disposed a quantity of sand 20, which has a level spaced from the top edge 18.

In the top plate 21 of the cylinder 6, there is a central opening 22 located above the opening 10, and this opening is surrounded by an upwardly extending circular flange 23 considerably spaced from the opening 22, and having a plurality of perforations 23' as shown. The flange 23 carries a plate 24 which deflects the heat outwardly through the perforations 23'.

The bracket 17 has openings therethrough as will be understood, and the conical member 9 being spaced from the member 16, the air passes up into the member 16 and being heated by the burner 11, tends to accumulate within the member 16, thus heating the sand. The heated gases pass downwardly between the members 9 and 16, however, and a current of air thus passes upwardly between the brackets 17 and through the space between the inner and outer casings, passing out through the opening 22 and thence through the perforations 23'. The sand 20 accumulates heat, as stated, and this heat has access to the space between the top 18 of the cylinder 14 and the top of the casing 6.

The top of the casing 6 is raised back on the hinge 27 as shown, and the inner casing 14 may thus be emptied of the sand therefrom through the opening 19, when desired.

A handle 25 is carried by the plate 24 and by it the stove may be transported from place to place, it being understood that a fastener 26 is provided to hold the top plate 21 to the outer casing 6 in closed position.

What is claimed is:—

1. In a heater, the combination with an outer casing, of an inwardly extending bottom plate carried by the casing, said bottom plate having an opening therethrough, an upwardly extending open topped hollow frusto-conical member secured to the bottom plate and disposed above the opening of the bottom plate, supports secured within the casing, an inner casing disposed upon the supports, an upwardly extending hollow conical member located within the inner casing, said frusto-conical member extending into the conical member in spaced relation thereto, heat conserving material located

within the inner casing and surrounding the conical member, said inner casing being disposed in spaced relation to the outer casing, a removable top for the outer casing, said
5 removable top having an opening there-through, and a heat deflecting plate located above the opening.

2. A heater comprising an outer casing having an inwardly extending bottom plate,
10 supporting legs carried by the bottom plate, an upwardly extending open topped frusto-conical hollow member secured at its lower edge portion to the inner periphery of the annular bottom plate, a burner located with-
15 in the hollow member, inwardly extending brackets carried by the casing and surrounding the hollow member, an inner casing having an annular bottom plate disposed upon the brackets and having an upwardly ex-
20 tending hollow conical member secured to

the inner edge of the annular plate, said frusto-conical member extending into the conical member and lying in spaced relation thereto, a quantity of sand located within the
25 second casing and surrounding the conical member, said inner casing having an opening at its top, a removable top for the outer casing, said removable top having an opening therein, means for holding the removable
30 top in position at times, an upstanding flange surrounding the opening in the removable top, said flange being provided with perforations, and a plate secured upon the upper edge of the flange.

In testimony whereof I affix my signature, 35
in presence of two witnesses.

JAMES A. EDDY.

Witnesses:

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B. F. JOBE.