

No. 791,197.

PATENTED MAY 30, 1905.

J. R. KILBOURNE.
REFUSE BURNER.

APPLICATION FILED AUG. 30, 1904.

Fig. 1.

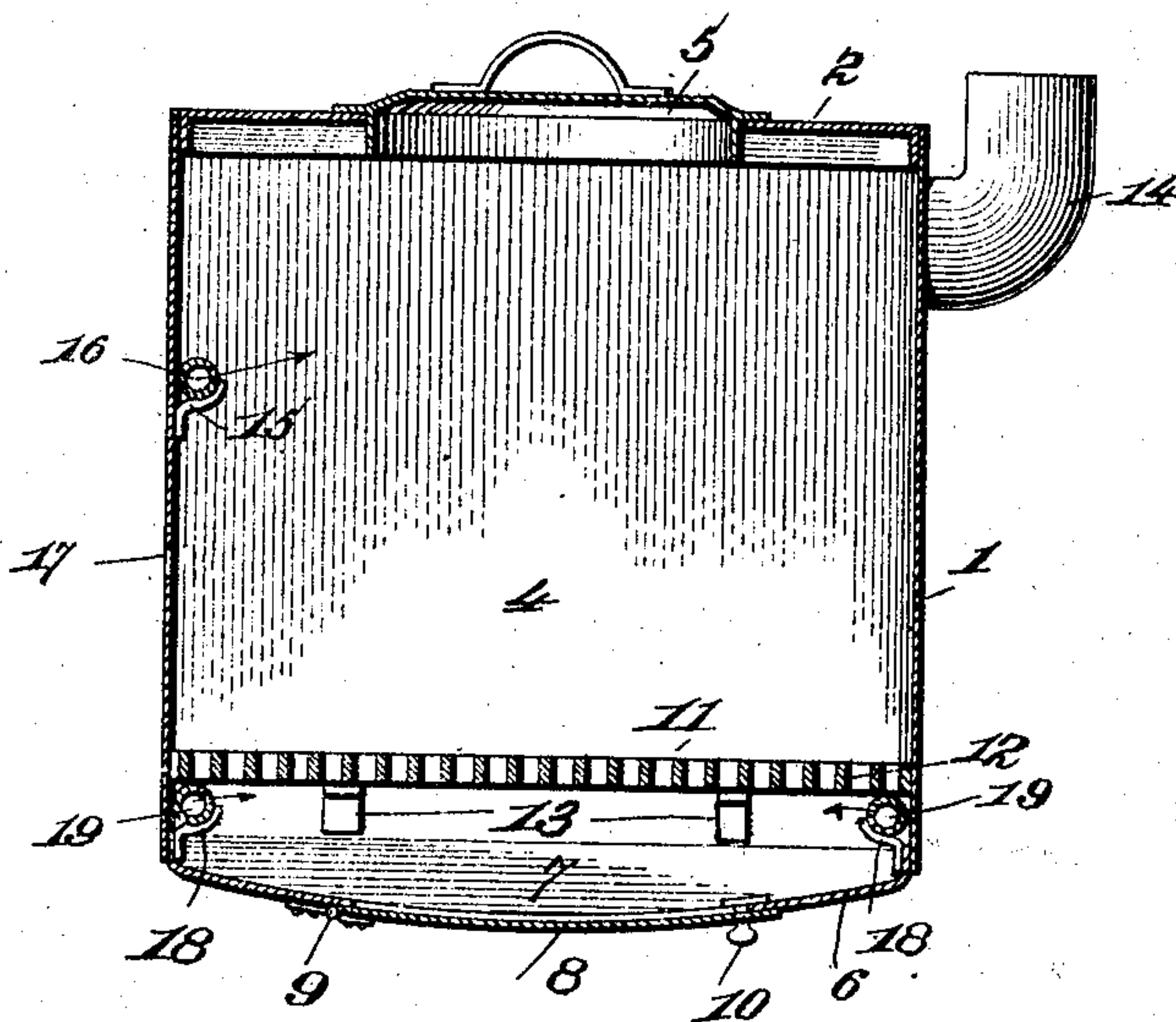


Fig. 2.

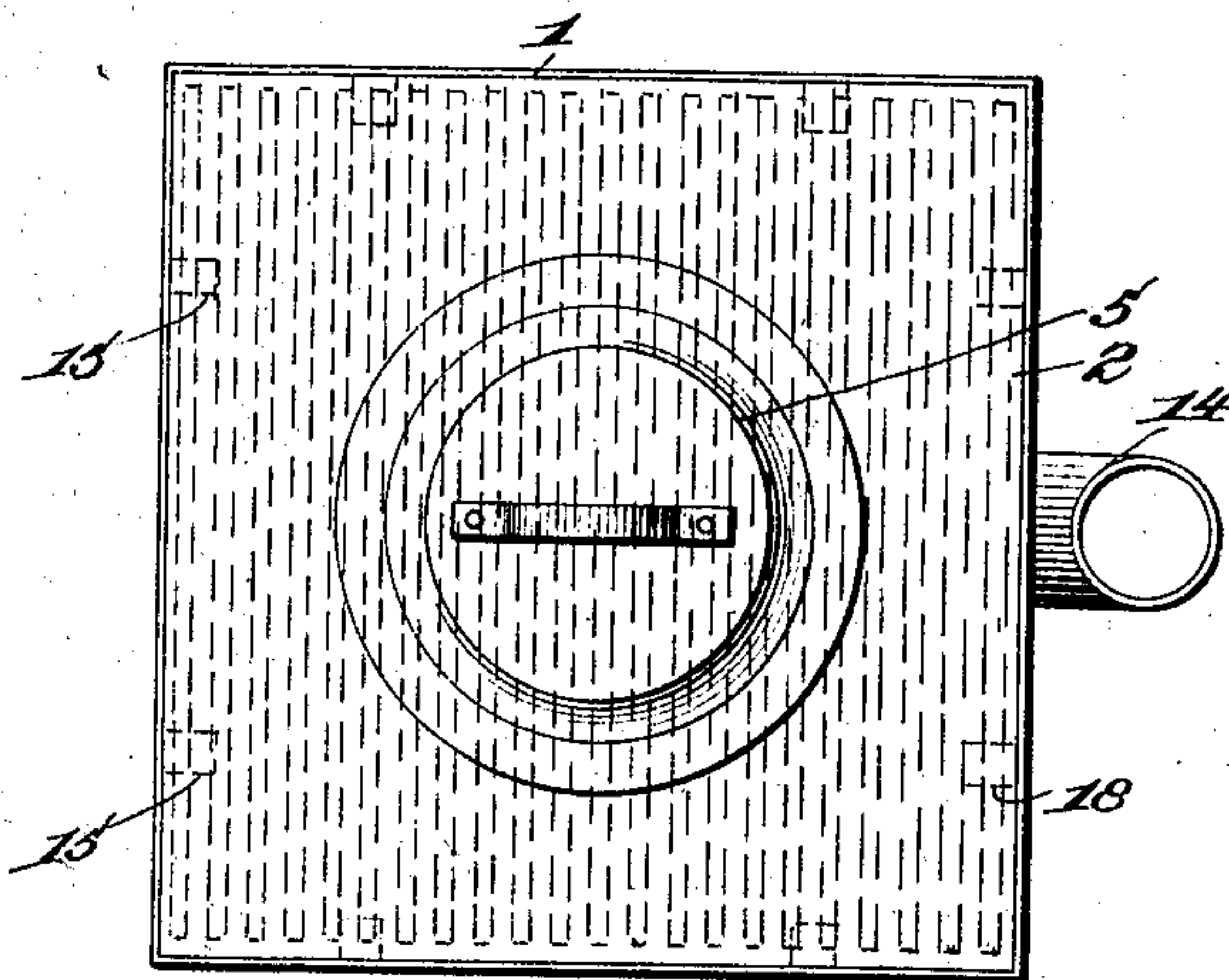
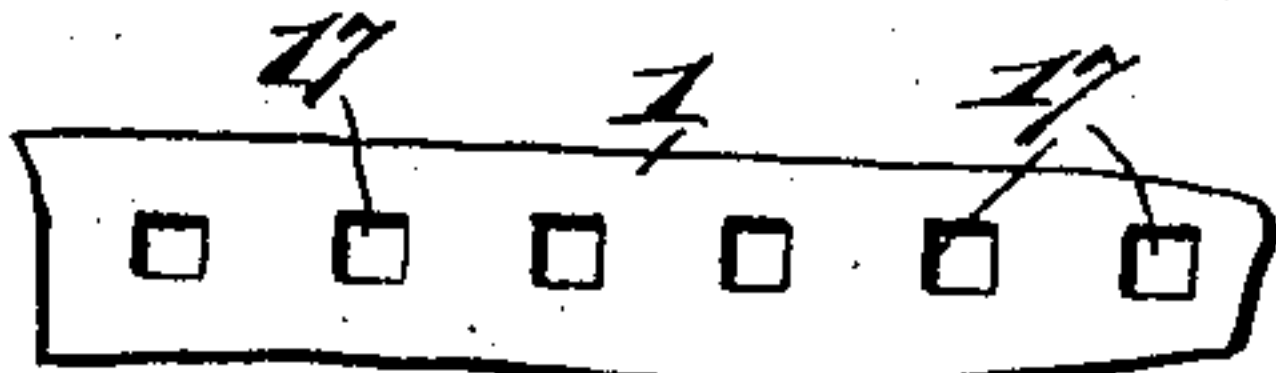


Fig. 3.



WITNESSES:

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JAMES R. KILBOURNE, OF COLUMBUS, OHIO.

REFUSE-BURNER.

SPECIFICATION forming part of Letters Patent No. 791,197, dated May 30, 1905.

Application filed August 30, 1904. Serial No. 222,723.

To all whom it may concern:

Be it known that I, JAMES RUSSELL KILBOURNE, a citizen of the United States, residing at Columbus, in the county of Franklin, in the State of Ohio, have invented certain new and useful Improvements in Refuse-Burners, of which the following is a specification.

This invention relates to refuse-burners; and it has for an object to provide an improved construction that may be used within the house for destroying garbage and other refuse and that will be odorless.

Another object is to provide means within the refuse-chamber for drying the refuse or garbage so that by the time said material reaches the point in the burner where it is consumed it will be in condition for immediate consumption.

Other and further objects will appear in the following description and will be particularly pointed out in the claim.

In the drawings, Figure 1 is a vertical section of an embodiment of my improved burner. Fig. 2 is a top plan view showing the grate and other portions in dotted lines, and Fig. 3 is a detail view showing a portion of the front of the burner with the air-openings therein.

Referring more particularly to the drawings, 1 indicates an outer shell of square or rectangular form. The shell 1 is provided with a rigid top 2, having a central opening through which material is fed to the refuse-chamber 4, the central opening being closed by a cover 5. The bottom 6 is likewise rigid with the shell 1, said bottom being, however, concavo-convex to form an ash-pit 7 and provided with a central opening through which the ashes are removed, the opening being normally closed by a door 8, hinged at 9 to the bottom and locked in its closed position by a latch 10 of any suitable construction.

Dividing the refuse-chamber 4 and the ash-pit 7 and slightly above the bottom 6 is the grate 11, which may be of any suitable construction, that shown consisting of a plurality of parallel bars 12, connected at their ends and removably resting upon the lugs 13, extended from the inner wall of the shell 1. A flue 14 is extended from one of the side walls of the shell 1 and may be connected to the chimney or lead otherwise to the outside atmosphere. Extending horizontally across the side wall opposite the flue 14 on lugs 15 and within the refuse-chamber 4 is a burner 16, the dual purpose of which is to dry the material within the refuse-chamber and to cause the odors to travel in the direction of the arrow, Fig. 1, and not collect in the corners of the refuse-chamber. Air-openings 17 are formed in the shell 1 below the burner 16 to supply air thereto.

Below the grate 11 and within the ash-pit 7 on lugs 18, secured on opposite side walls of the shell 1, is removably positioned a pair of burners 19, which direct a flame on the dried material on the grate 11 and consume said material.

The operation of my invention is as follows: Material is fed when the cover 5 is removed through the opening in the top 2 into the refuse-chamber 4 and into the grate 11. A flame is first directed by burner 16 in the direction of the arrow or toward the flue, thereby drying the material and causing all odors to pass out through the flue. The pair of burners 19 may be lighted at the same time or after the material is dried, and these burners consume the material. The ashes drop into ash-pit 7 and are removed through door 18.

It is to be understood that I am not limited to the embodiment herein shown and described and that I may make any changes within the scope of the appended claim without departing from the spirit of my invention.

Having thus described my invention, what I claim is—

A refuse-burner comprising a shell having a feed-opening at its top and a discharge at its bottom, closures for the feed and the discharge

openings, a grate positioned in the shell and dividing it into a refuse-chamber and an ash-pit, a flue leading from one side of the shell near its upper end, a burner positioned in the
5 refuse-chamber above the grate and on the side opposite the flue, the shell being provided with air-supply openings adjacent the burner, and a burner positioned below the grate, the

shell being normally closed against the admission of air below the grate. 10

The foregoing specification signed this 12th day of August, 1904.

JAMES R. KILBOURNE.

In presence of—

GEORGE B. KILBOURNE,

LINCOLN KILBOURNE.