C. A. DE JACO.

HEATING DRUM.

APPLICATION FILED APR. 12, 1921.

1,423,651. Patented July 25, 1922.

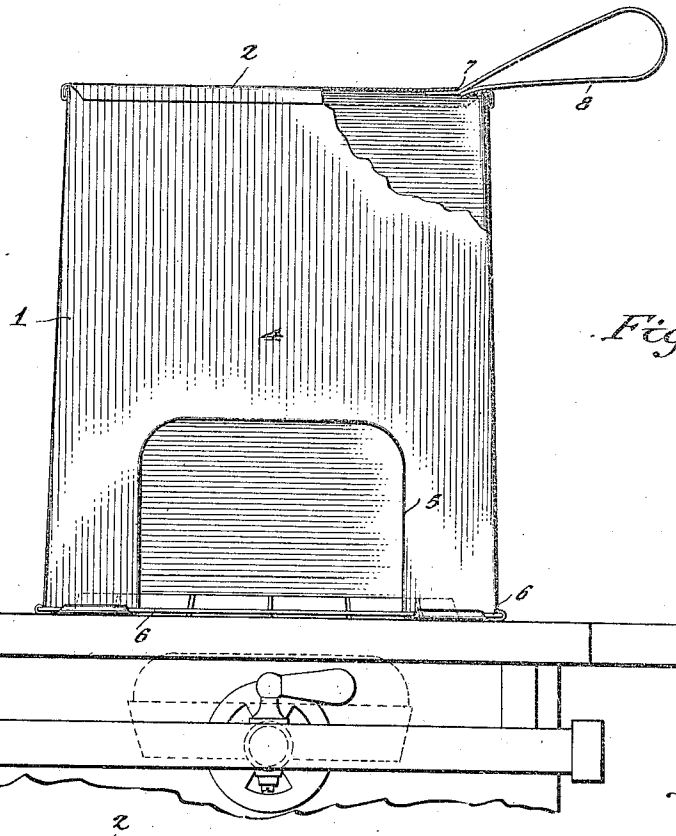


Fig. 1.

Fig. 3.

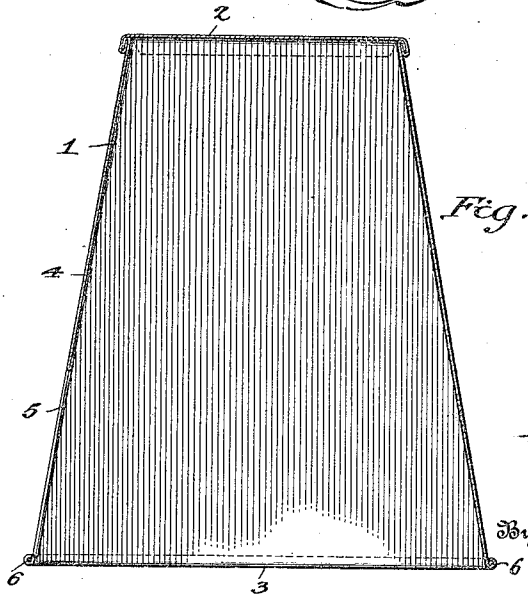
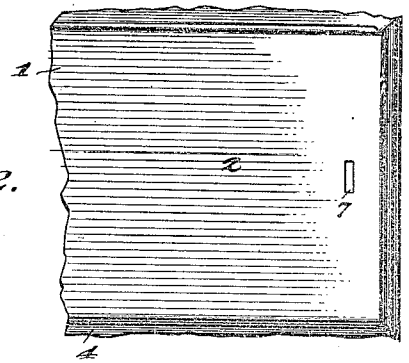


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HEATING DRUM.

1,423,651. Specification of Letters Patent. Patented July 25, 1922.

Application filed April 12, 1921. Serial No. 460,843.

To all whom it may concern:

Be it known that I, CHARLES A. DE JACO, a citizen of the United States, and residing at Newport, in the county of Campbell and State of Kentucky, have invented a new and useful Improvement in Heating Drums, of which the following specification is a full disclosure.

This invention relates generally to the art of heating and particularly to an emergency heating drum, designed to be placed over a burner, such as that of a gas cooking-stove or range.

The main object of the invention is to provide a form of heater which, when used over a burner, will prevent the dissemination of noxious gases into the surrounding atmosphere and this object is furthered by the provision of a heater drum having an air inlet opening, within which drum the gaseous waste products of the burner are mixed with oxygen and burned and combined to form odorless and harmless products.

Other objects and certain advantages will be disclosed in the description of the drawing, forming a part of this application, and reference is made to said drawing in which:

Fig. 1 is an elevation partly in section showing my heating drum placed over a burner as in use.

Fig. 2 is a transverse vertical section of the heater drum.

Fig. 3 is a fragmentary top plan.

In the drawing, the numeral 1 designates a truncated, hollow, rectangular, pyramidal sheet metal casing or drum closed at its top by a cover 2, and open as at 3 at its lower end or base. Within a side 4, of the casing 1, is an opening 5, placed at the lower edge of said side, the placement and function of this opening being an important feature of my invention.

The base opening 3, of the casing 1, is reenforced by rolling the edges thereof over a circumambient wire stiffener 6. A small slot 7 is provided in the cover 2 for the reception of a lifter 8.

Heretofore, in devices of this kind, vent openings have been provided at or near the top of the casing, and their size and location have furthered the discharge and circulation of noxious burner gases within the room. In my heater drum, the opening 5 is of sufficient size to allow a free entrance of the air to the interior of the drum or casing, to cause a circulation and mixing of the same with the noxious waste gases of the burner, whereby the said gases are burned or combined to form a harmless product.

Experiment has shown that the location and size of the opening is the determining factor, relative to the control and elimination of the baneful products of combustion. My heater in use, gives no odor, nor is there formed a trace of the harmful gas, carbon monoxide.

Having described my invention, I claim:

1. A heating drum comprising a rectangular sheet metal structure adapted to be applied in an inverted position over a gas stove burner, provided with a flat top and opposing side walls tapering toward each other from the base, and one wall thereof having an opening therethrough at the lower portion from the base edge.

2. A heating drum comprising a sheet metal structure, adapted to be applied over a gas stove burner, the structure being of four walled truncated pyramidal form, with one of the walls having an opening therethrough at the lower portion thereof from the base edge.

In witness whereof, I hereunto subscribe my name, as attested by the two subscribing witnesses.

CHARLES A. DE JACO.

Witnesses:
L. A. BECK,
J. C. JUNIUS.