

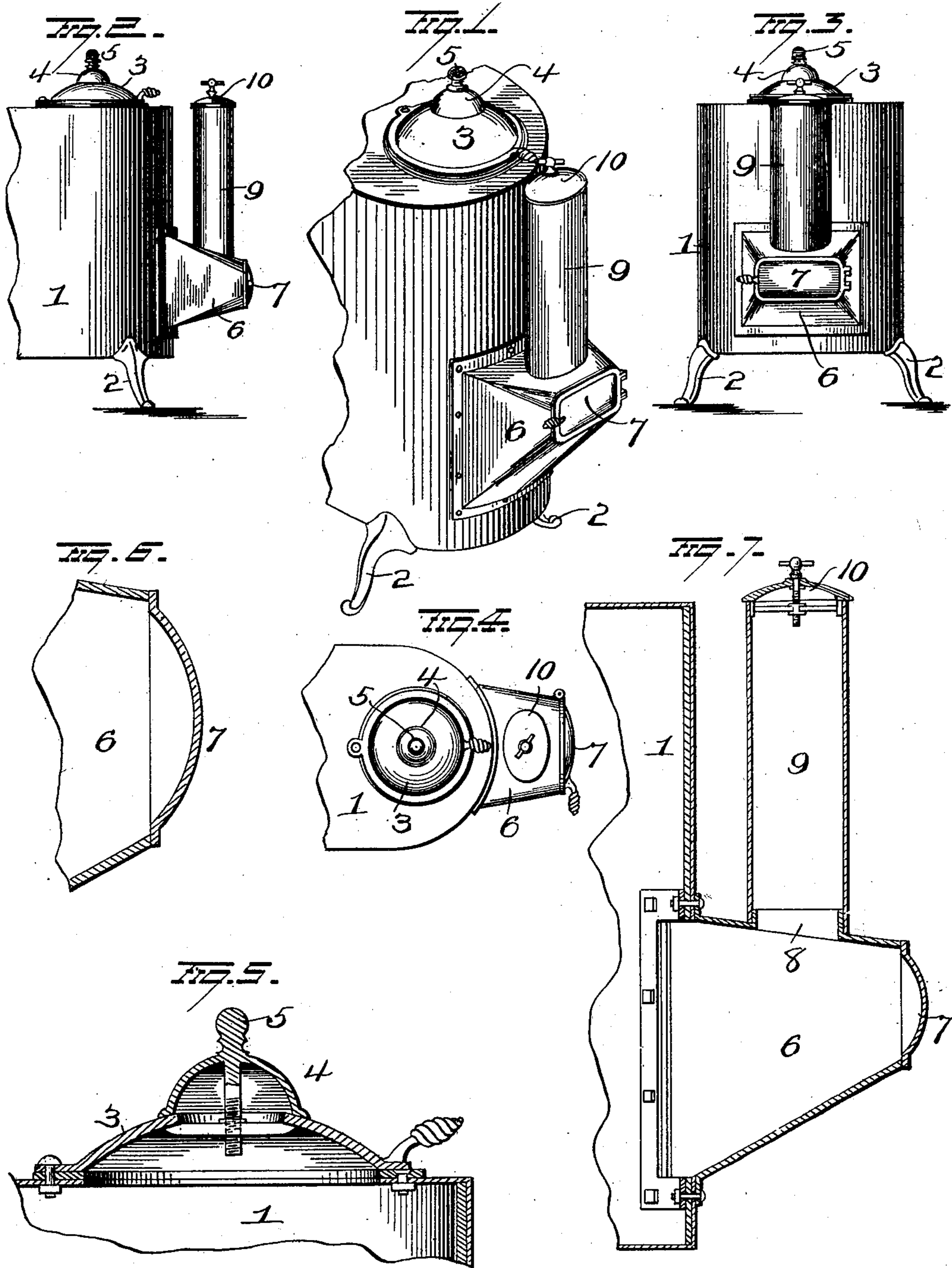
No. 754,275.

PATENTED MAR. 8, 1904.

T. M. BARBEE.
HEATING STOVE.

APPLICATION FILED SEPT. 23, 1903.

NO MODEL.



WITNESSES
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THOMAS MARTIN BARBEE, OF CORYDON, INDIANA, ASSIGNOR OF THREE-FOURTHS TO SAM P. VOGT AND LEVI V. BROWN, OF CORYDON, INDIANA.

HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 754,275, dated March 8, 1904.

Application filed September 23, 1903. Serial No. 174,345. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MARTIN BARBEE, a resident of Corydon, in the county of Harrison and State of Indiana, have invented certain new and useful Improvements in Heating-Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in heating-stoves, and more particularly to that class of stoves designed for burning wood, the object of the invention being to provide an improved stove of this character which will be so constructed as to obviate the liability of hot coals and ashes falling out when the ash-door is opened, and which will also prevent the accumulation of gas in the stove-body, and thereby prevent consequent explosions.

A further object is to provide an improved wood-burning stove which will be neat and attractive in appearance and an improvement on anything of this character heretofore known.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a broken perspective view illustrating my improvements. Fig. 2 is a view in side elevation. Fig. 3 is an end elevation. Fig. 4 is a top plan view. Figs. 5 and 6 are enlarged sectional views of details of construction, and Fig. 7 is a view in longitudinal section.

1 represents the stove-body, which may be elliptical or other desired shape, supported on feet 2, and provided in its top with a fuel-opening closed by an ornamental swing-cover 3, in which I provide a screw-damper 4, having a suitable handle 5. The purpose of this damper will more fully hereinafter appear.

An angular opening is provided in one end of the stove-body 1 near its bottom, and a

box-casting 6 is secured around this opening by bolts, rivets, or otherwise, as preferred. This box 6 is made with an upwardly-tapering bottom, inclining upward from its inner to its outer end. In fact, all four walls of the box taper to the outer end, giving to the box a contracted exit for ashes, which is closed by a hinged ash-door 7. An elliptical nipple 8 is provided in the top of box 7 for the reception of a downdraft elliptical pipe 9, having a suitable damper 10 at its top to regulate the inlet of air thereto.

When the stove is in operation, air passes down pipe 9 through box 6 into the stove-body and gas is liable to and does accumulate in the top of the stove-body and will eventually explode. To avoid this, I provide the damper 4, which when open will permit a downdraft through the stove-body and carry off or compel the combustion of the gas which would otherwise accumulate therein.

By constructing the box 6 with an inclined bottom said bottom serves three functions—viz., to direct feed-air entering by the tube 9 toward the fuel, to allow the door 7 to be opened to operate as a check-draft without escape of ashes, and to prevent when the ash-door 7 is opened hot coals or ashes falling out onto the floor, and should coals or ashes be dropped from the shovel in removing them they will be diverted by the inclined bottom of the box into the stove and not roll out.

A great many slight changes might be made in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention.

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

1. The combination with a stove-body having an opening in its wall coincident with its ash-pit, of an outwardly-projecting box secured to said body and communicating with said opening, the bottom of said box being inclined throughout its full extent, a door closing the outer end of said box, and a down-

draft-pipe communicating with the top of said box.

2. The combination of a stove-body having an angular opening in its end, a box secured
5 to the stove-body around the opening and projecting outward therefrom, said box having its walls tapering to its outer end toward each other, an ash-door closing the outer end of the box, a downdraft-pipe connecting with

the top of the box, and a damper in the upper end of said pipe.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

THOMAS MARTIN BARBEE.

Witnesses:

HARRY F. KEPNER,
SMITH PATTERSON.