

No. 807,880.

PATENTED DEC. 19, 1905.

W. G. TAYLOR.
HEATING STOVE.
APPLICATION FILED APR. 22, 1904.

Fig. 1.

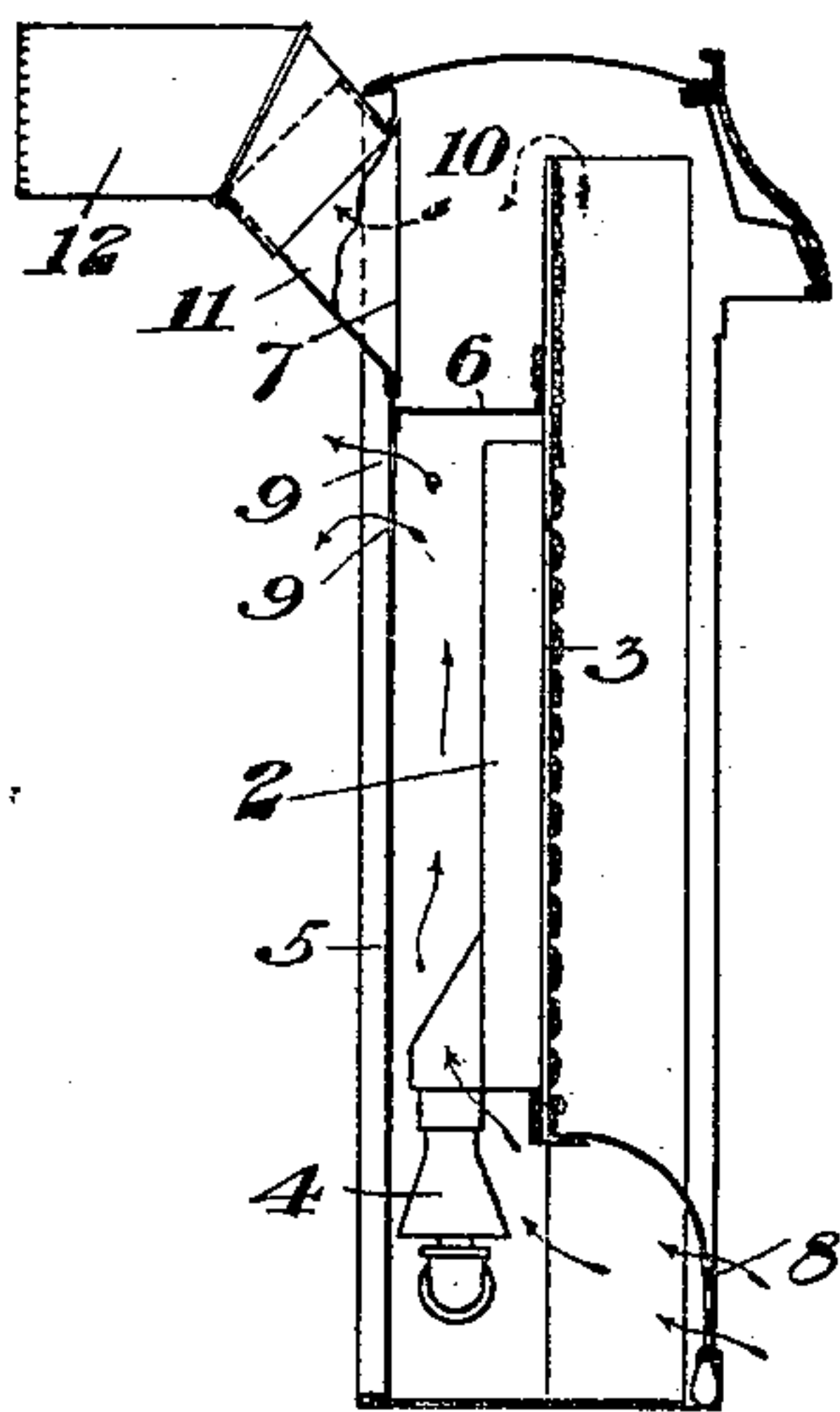


Fig. 2.

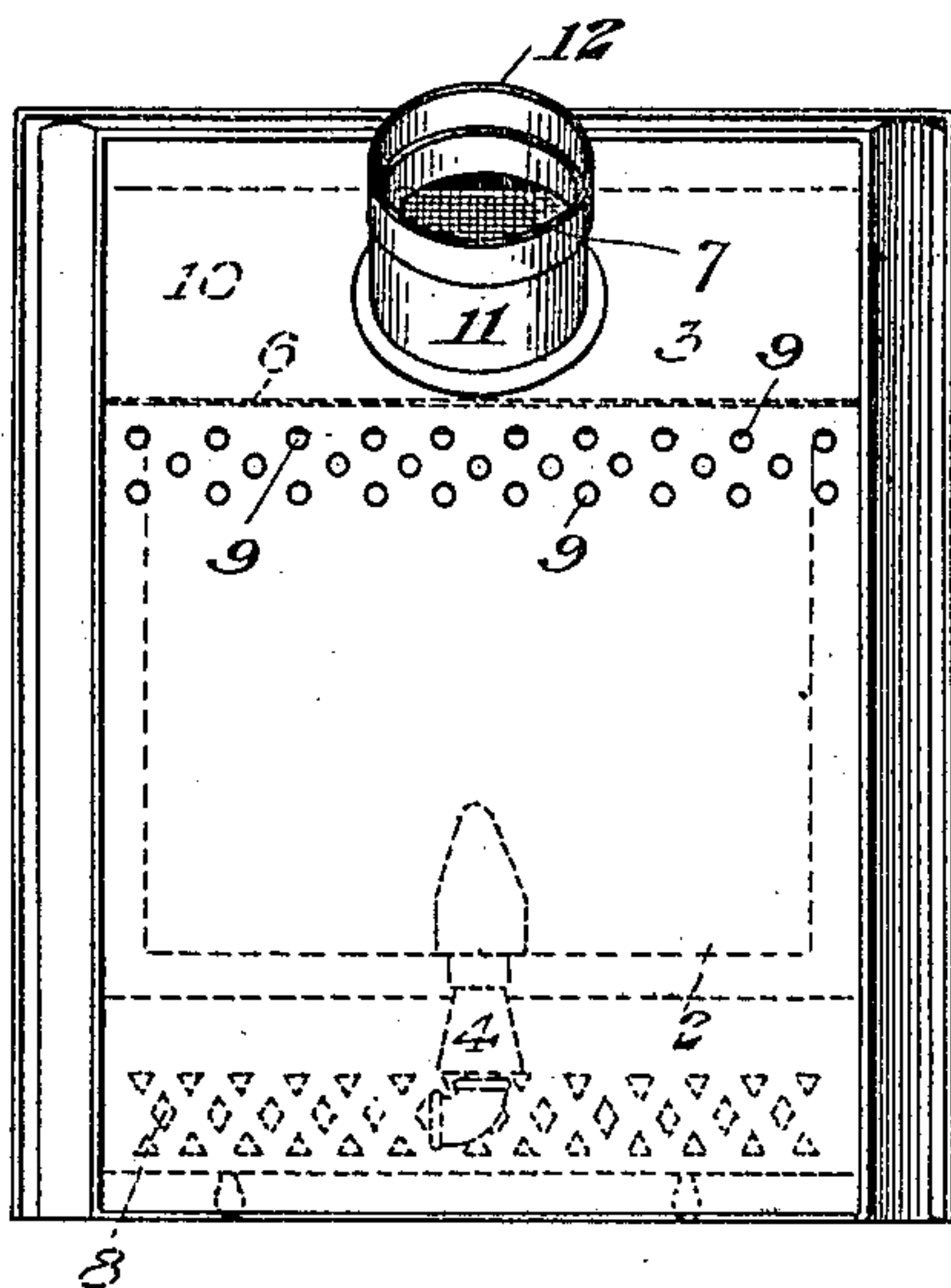
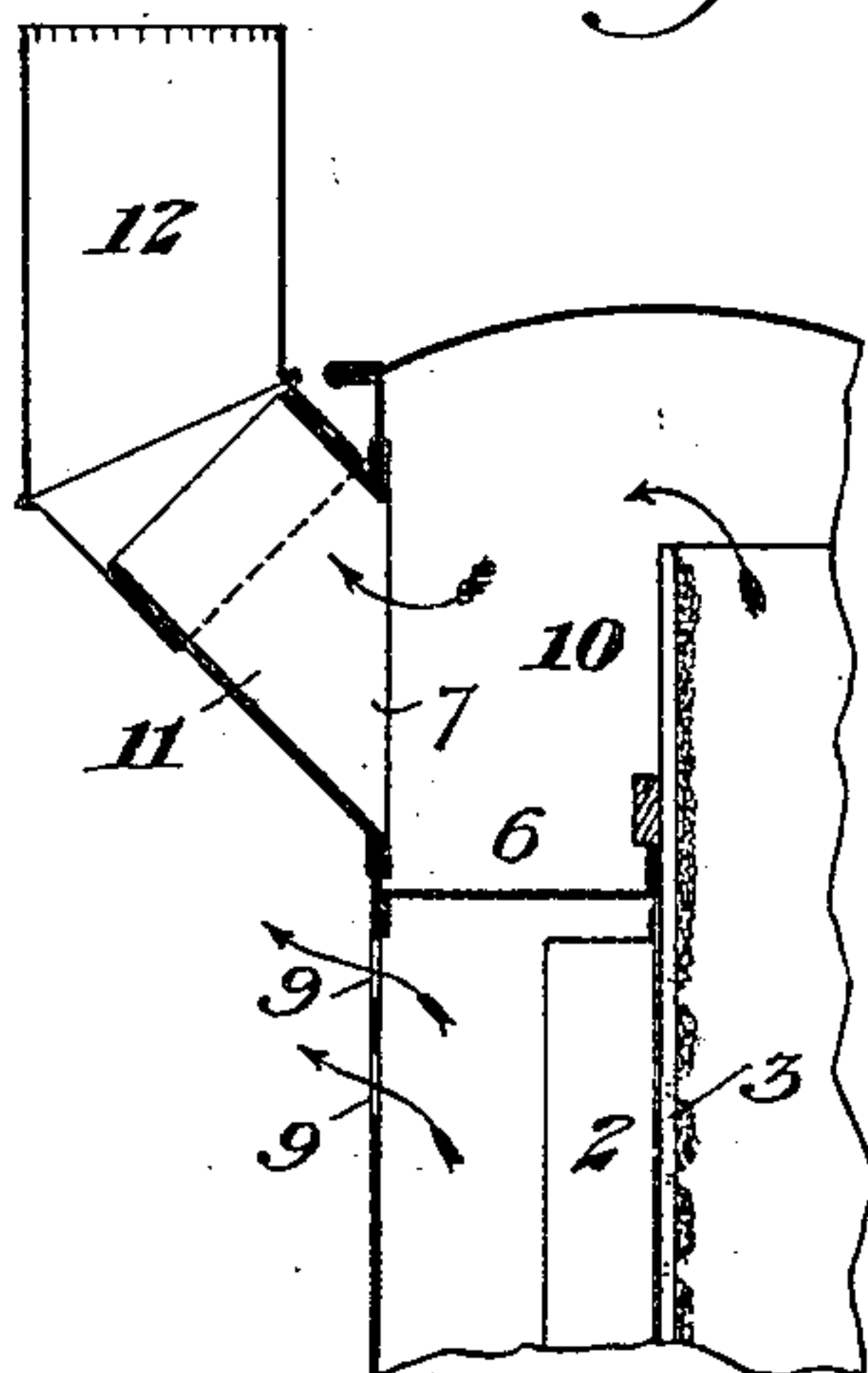


Fig. 3.



WITNESSES

L. A. Conner
G. B. Blaming

INVENTOR

W. G. Taylor
by Baxwell & Byrnes
his Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM G. TAYLOR, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO
TAYLOR BURNER & ELECTROPLATING COMPANY, OF PITTSBURG,
PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

HEATING-STOVE.

No. 807,880.

Specification of Letters Patent.

Patented Dec. 19, 1905.

Application filed April 22, 1904. Serial No. 204,872.

To all whom it may concern:

Be it known that I, WILLIAM G. TAYLOR, of
Pittsburg, Allegheny county, Pennsylvania,
have invented a new and useful Heating-Stove,
5 of which the following is a full, clear, and ex-
act description, reference being had to the ac-
companying drawings, forming part of this
specification, in which—

Figure 1 is a vertical cross-section of my
10 improved stove. Fig. 2 is a rear elevation of
the same, and Fig. 3 is a detail view of the
pipe connection.

My invention relates to the class of gas heat-
ing-stoves and is designed to provide a sim-
15 ple and efficient construction in which the air
may circulate through the stove in such a
manner as to become heated therein by con-
duction from the chamber of the fireboard,
this air being supplied through the back of the
20 stove into the room.

The invention is also designed to provide a
simple pipe connection, which may be re-
versed in order to enter either a horizontally-
extending flue-opening or a vertically-extend-
25 ing flue-opening.

In the drawings 2, represents the reservoir
or gas-box, which is of the usual form, hav-
ing a perforated fireboard 3 and a lower mixer
4, which supplies the mixed gas and air to the
30 interior of the chamber behind the board.
The casing 5 of the stove may be of the usual
form, and it is provided with a transverse
partition 6, which extends from the back of
the stove to the gas-box below the flue-open-
35 ing 7. This transverse partition forms an air-
chamber in the rear of the fireboard to which
air is supplied from the front through the
fender 8. The fender may be set on legs or
provided with holes or arranged in any other
40 suitable manner to allow air to pass through
it below the fireboard and into the back air-
chamber. The heated air flows out of this
chamber through a series of holes 9 in the
back of the casing below the transverse par-
45 titition.

The products of combustion rise along the

front of the fireboard and pass into the cham-
ber 10 above the transverse partition, whence
they flow out through the pipe 11. This pipe
is provided with a removable section 12, con- 50
sisting of two pipe-sections extending at an
angle to each other, such that by turning the
section its projecting leg will extend either
vertically or horizontally and rearwardly.

In Fig. 1 I show the connection as arranged 55
to lead into the horizontal flue, while in Fig.
3 I show it reversed so that it will enter a ver-
tical flue. In this manner the stove can be
readily connected to either a vertical or hori-
zontal flue without any change in the pipe 60
connection which is sold with the stove.

The advantages of my invention result from
the simplicity and cheapness of the structure
and the efficient heating of the air which cir-
culates through the back chamber and passes 65
out through the back of the stove-casing, also
from the simple pipe connection, which can
be adapted to either pipe or flue.

Variations may be made in the form and
arrangement of the burner and the other parts 70
of the stove structure without departing from
my invention.

I claim—

A gas heating-stove having a vertical gas-
box with a perforated front fireboard, a stove- 75
casing having a back spaced apart from the
gas-box to form an air-chamber, an imperfor-
ate partition forming the top of the rear air-
chamber, said partition being below the level
of the smoke-flue, the casing-back plate hav- 80
ing air-exit openings below said partition,
said air-chamber having front air-inlet open-
ings below the fireboard, the casing having a
top arranged to allow the products of combus-
tion to pass over the top of the fireboard to 85
the smoke-flue; substantially as described.

In testimony whereof I have hereunto set
my hand.

WILLIAM G. TAYLOR.

Witnesses:

GEO. B. BLEMING,
JOHN MILLER.