

(No Model.)

A. A. RUBY.
STOVE.

No. 528,989.

Patented Nov. 13, 1894.

FIG. 1.

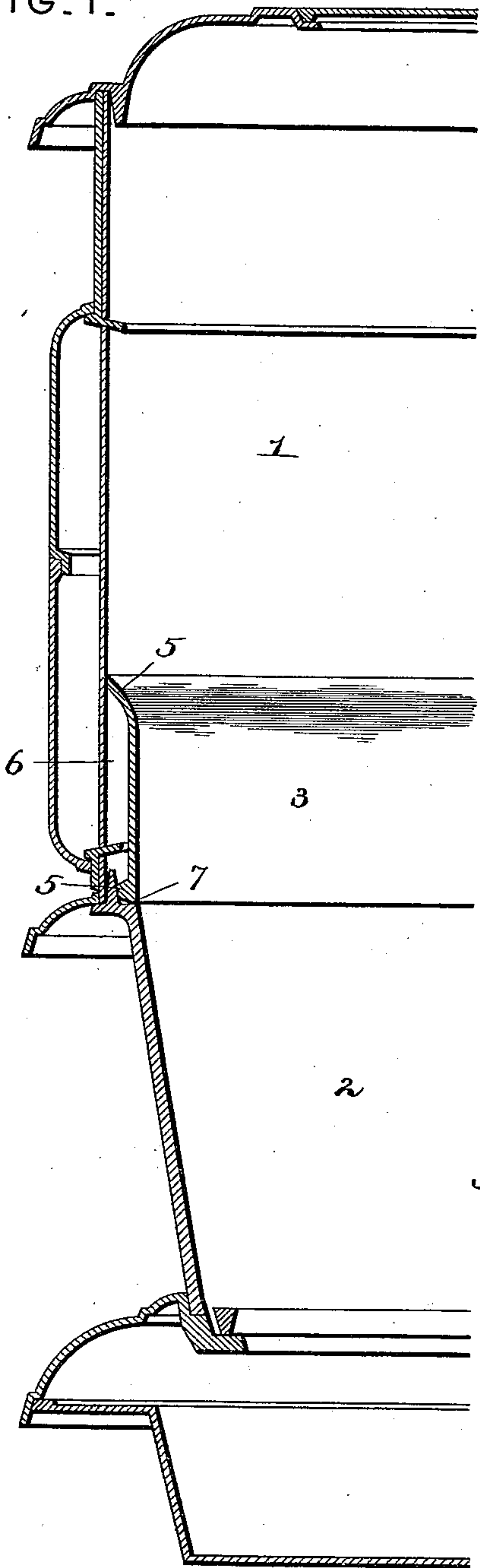


FIG. 2.

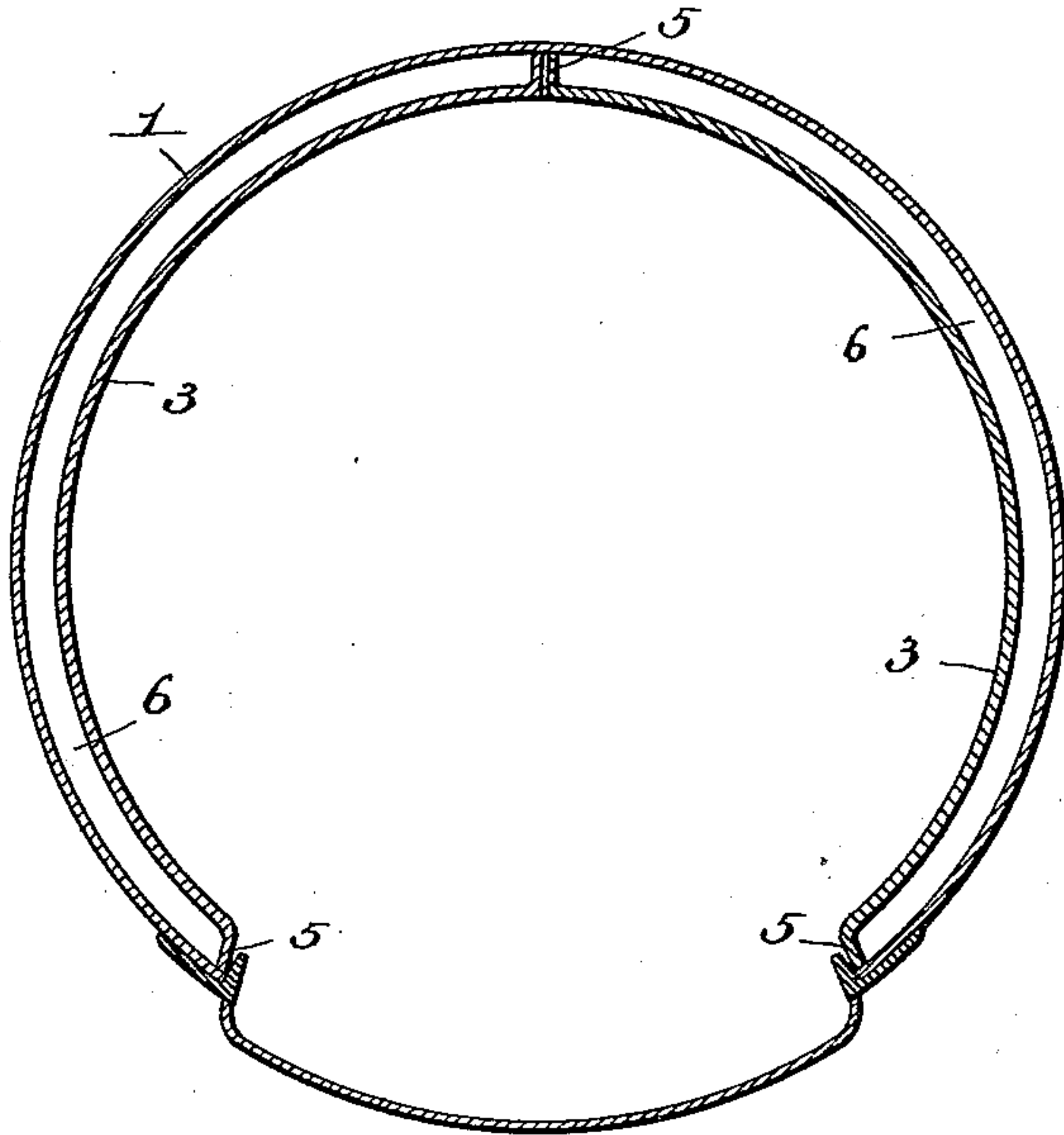
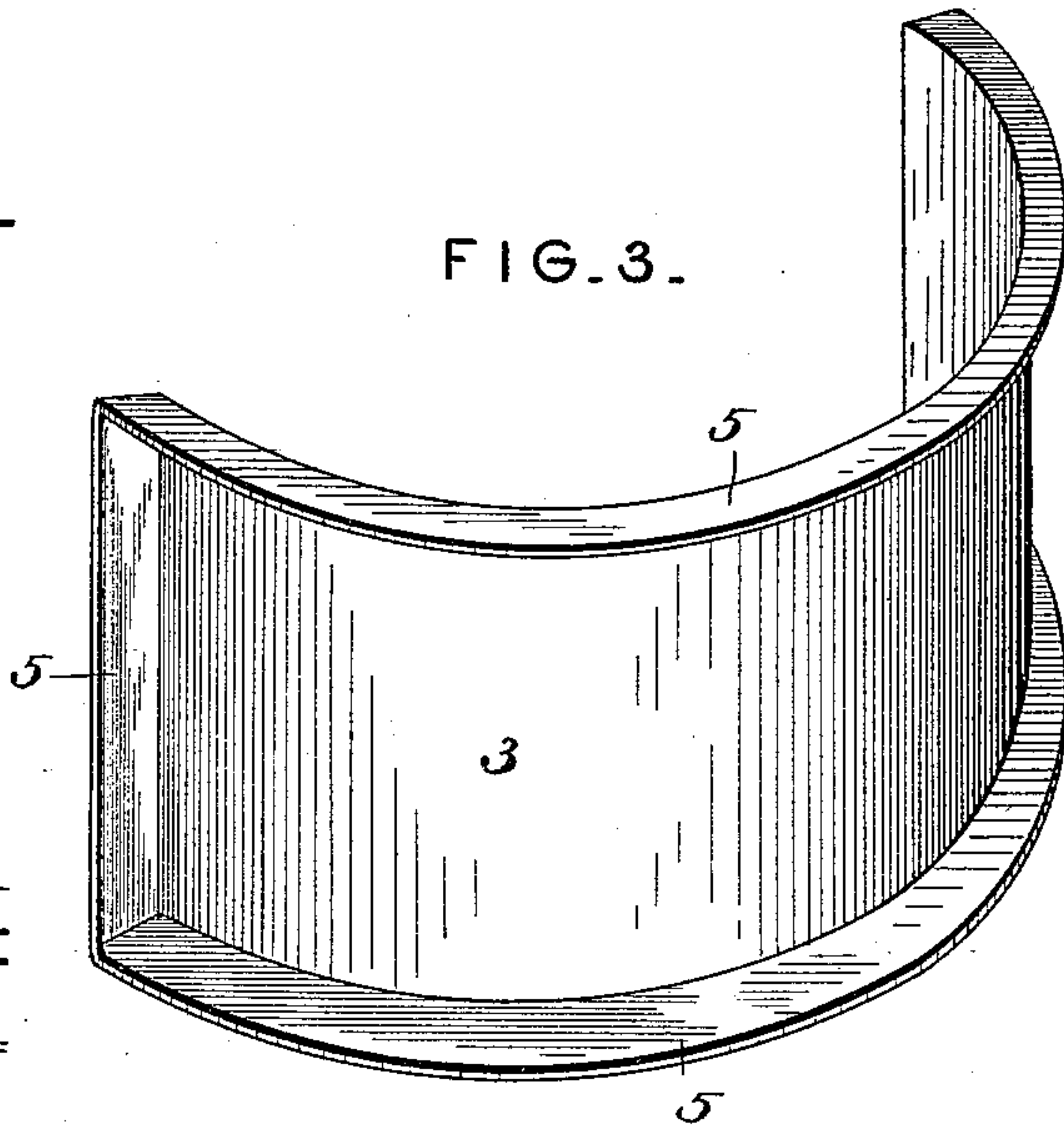


FIG. 3.



Inventor

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Witnesses:

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UNITED STATES PATENT OFFICE.

ALBA A. RUBY, OF QUINCY, ILLINOIS.

STOVE.

SPECIFICATION forming part of Letters Patent No. 528,989, dated November 13, 1894.

Application filed June 30, 1893. Serial No. 479,294. (No model.)

To all whom it may concern:

Be it known that I, ALBA A. RUBY, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have
5 invented a new and useful Stove, of which the following is a specification.

My invention relates to improvements in stoves, and to that particular class thereof employing sheet-iron cylinders.

10 The objects of my invention are to provide means for preserving the cylinders from the deleterious effect of the direct heat of the fire, which, as is well known, destroys the polish and blacking of the cylinder and frequently burns the same out, more particularly at or about the joint between the lower
15 end of the cylinder and fire-pot above the fire-brick.

20 With these and other objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claim.

Referring to the drawings:—Figure 1 is a vertical transverse sectional view of a portion
25 of a stove with my invention applied. Fig. 2 is a transverse horizontal sectional view of the same. Fig. 3 is a detail of one of the guard sections.

30 Like numerals of reference indicate like parts in all the figures of the drawings.

The stove may be given any desired external design, the only essential being that it includes the sheet metal cylinder 1, which in the ordinary construction is mounted upon
35 a fire-pot 2. This fire-pot is usually lined with firebrick to preserve it from the effects of the heat, but as heretofore stated the cylinder was subjected to the direct heat of the flame and in a short space of time became
40 marred and disfigured by having its polish burned therefrom; and furthermore, the excessive heat also resulted in a burning out or destruction of the lower end of the cylinder at or about its point of connection with the
45 upper end of the fire-pot. To obviate this therefore I provide hollow cast-metal curved plates 3, which I have shown in detail in Fig. 3 of the drawings. These hollow curved cast-metal plates are formed upon the arc of a
50 circle agreeing with that of the cylinder and in suitable lengths, in this instance in such length that two will be sufficient to occupy

and cover the internal surface from edge to edge of the door-opening. The plates have their four edges provided with flanges 5 which
55 rest against the cylinder and therefore combine therewith to produce intermediate dead-air spaces 6. In mounting the plates in position the same are preferably seated upon the inner ledge 7 of the fire-pot, and it will
60 be seen that they require no extraneous devices for securing them in position.

From the foregoing description in connection with the accompanying drawings it will be seen that I have provided an efficient
65 guard which protects the heretofore exposed portion of the cylinder of the stove from the direct effect of the heat and thus prevents the same from burning out and becoming disfigured by a destruction of its polish.
70

It is obvious that my invention is especially applicable to those stoves in which the cylinder or drum terminates at and is secured to the upper edge of the fire-pot, the latter being provided with an upstanding annular
75 rim to which the lower edge of the drum is fastened, as clearly shown in the drawings; and when thus used the guard rests upon the inner ledge or shoulder 7 with its inner surface approximately flush with the inner surface of the fire-pot, so as to form, essentially,
80 an extension or continuation thereof. Inasmuch as a dead-air space forms an efficient non-conductor of heat, it is preferable, as above described, to provide the plates or sections of the guard with outstanding flanges
85 which bear against the inner surface of the drum or cylinder and inclose bodies of air. It is preferable that the lower edge of the guard should extend slightly below the plane
90 of the extreme upper edge of the fire-pot, as shown.

I do not limit my invention to the exact means herein shown and described for securing the parts in position, nor to the exact
95 shape and number of parts, but hold that I may vary such details in any manner desired without departing from the spirit of my invention or sacrificing any of its advantages.

Having described my invention, what I
100 claim is—

The combination with a stove having a fire-pot provided at its upper edge with an inner ledge and a sheet metal drum or cylinder se-

cured at its lower edge to an upstanding rim
of the fire-pot which projects above said ledge,
of a guard arranged concentrically within the
stove, spaced from the sides of the drum or
5 cylinder, surrounded by the latter and ex-
tending below the plane of the upper edge of
the rim of the fire-pot, and resting upon said
ledge of the same, substantially as specified.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in to
the presence of two witnesses.

ALBA A. RUBY.

Witnesses:

WM. DENSON,
JOHN M. STAHL.