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S. S. WALES.
ADJUSTABLE CAP FOR STOVEPIPE OPENINGS.
APPLICATION FILED NOV. 10, 1909.

Patented Nov. 22, 1910.

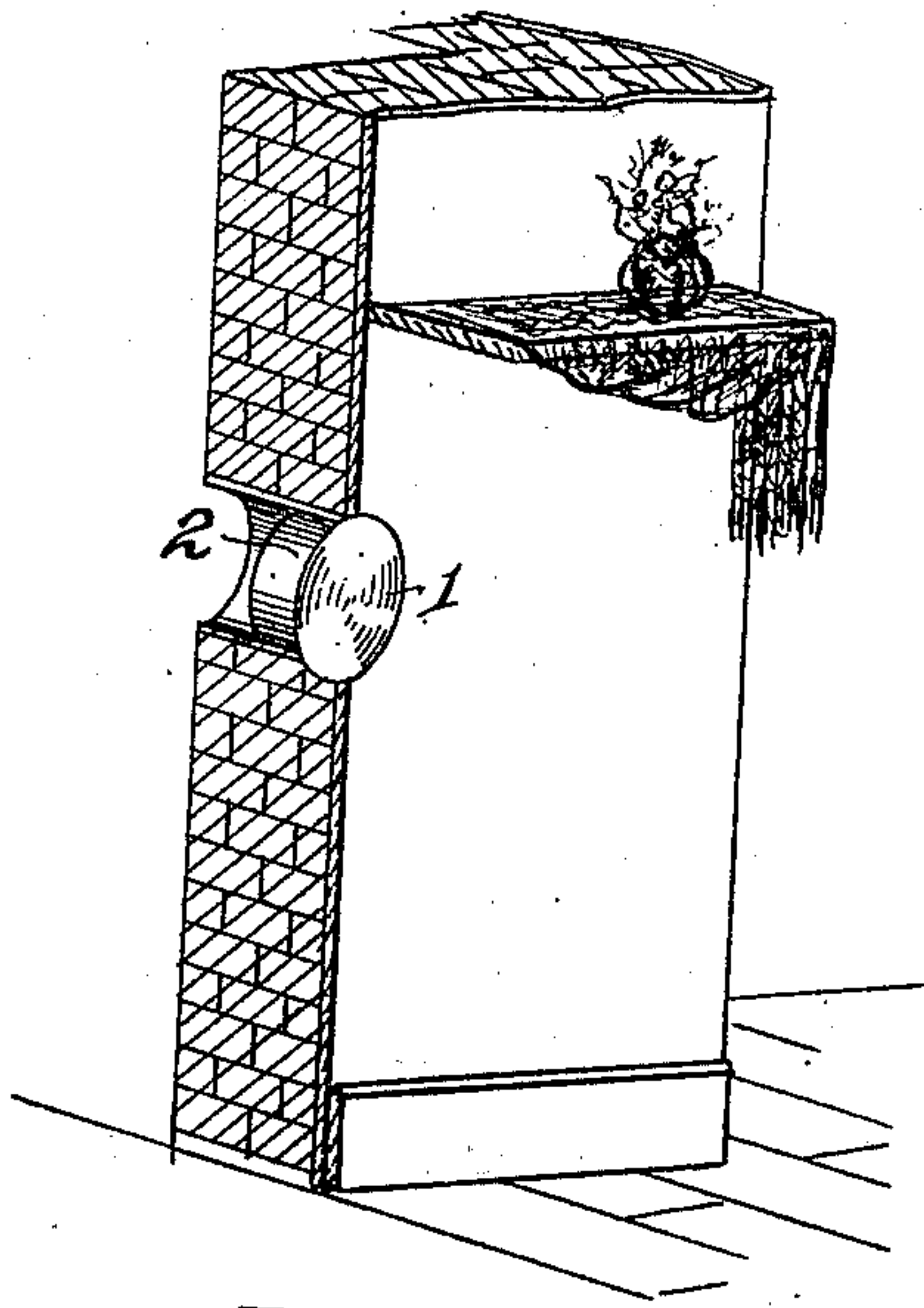


Fig. 1.

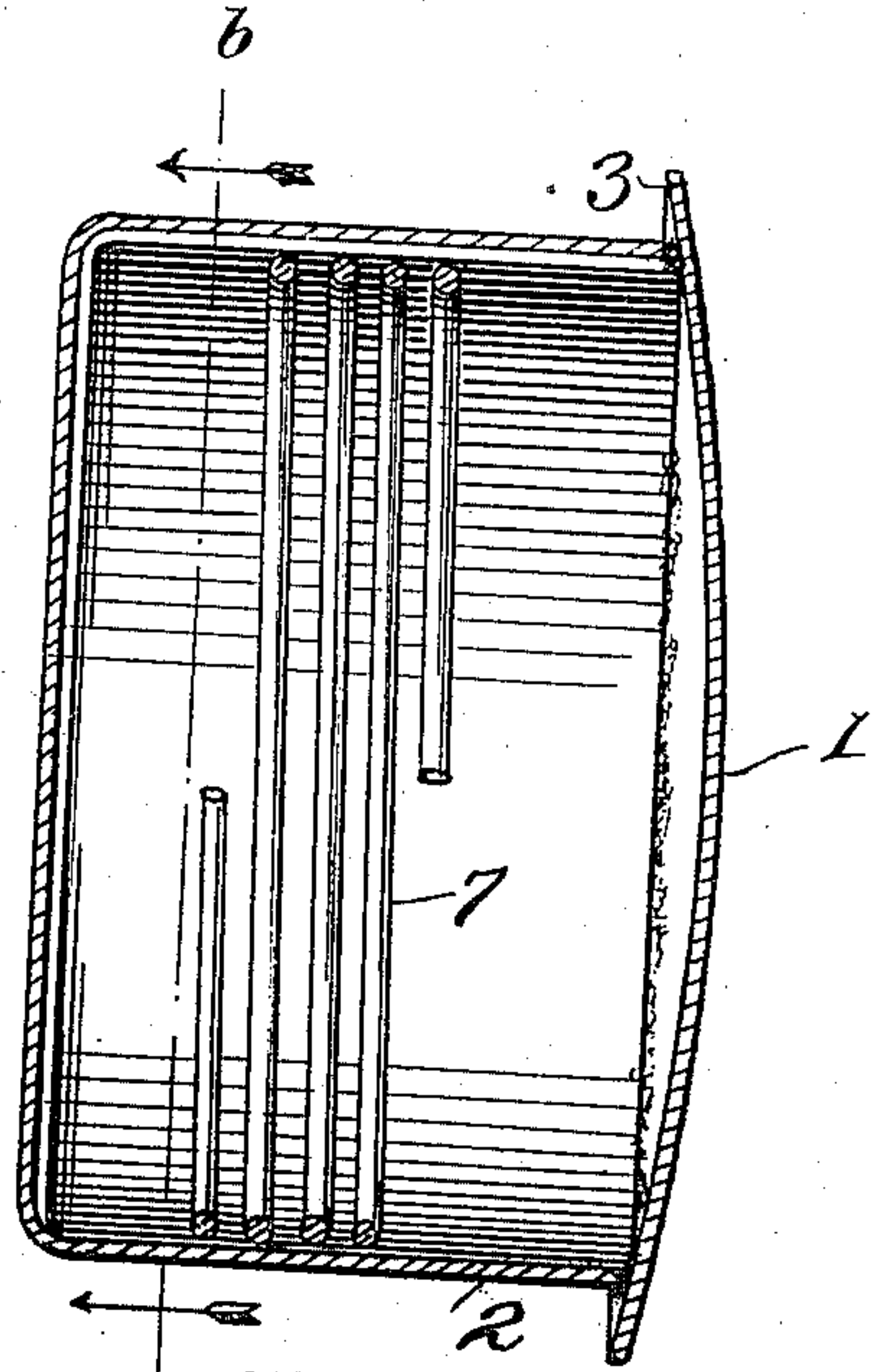


Fig. 2.

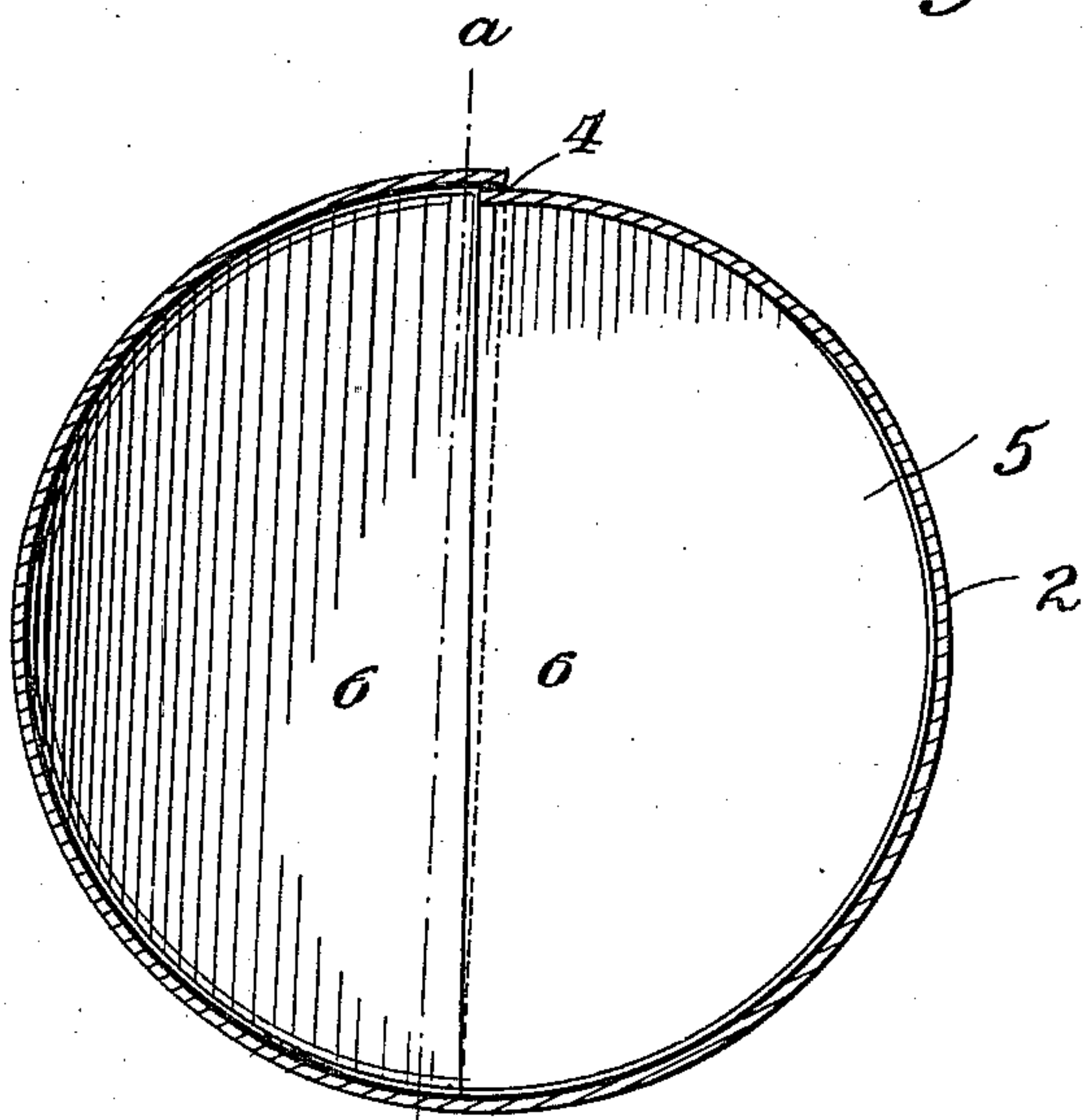


Fig. 3.

Witnesses

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ADJUSTABLE CAP FOR STOVEPIPE-OPENINGS.

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Specification of Letters Patent. Patented Nov. 22, 1910.

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To all whom it may concern:

Be it known that I, SAMUEL S. WALES, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented new and useful Improvements in Adjustable Caps for Stovepipe-Openings, of which the following is a specification.

My invention relates to certain new and useful improvements in adjustable caps for stove pipe openings as will be hereinafter more particularly described and pointed out in the claim.

In the drawings: Figure 1 is a perspective view of a chimney in section showing my invention properly inserted into the stove pipe opening or thimble thereof. Fig. 2 is a vertical cross section taken on the line *a—*a** of Fig. 3. Fig. 3 is a cross section taken on the line *b—*b** of Fig. 2.

The object of my invention is to provide a very practical and simple construction in an adjustable cap for stove pipe openings whereby the latter are practically sealed thus preventing soot or other accumulations from passing out of the chimney into the room or other compartment that may be in communication with said chimney, and further by the construction of my invention all accidents caused by fire are entirely obviated.

My invention therefor primarily consists of a self-expanding thimble or collar the outer cylindrical surface of which is caused to come in a yielding and uniform contact with the chimney opening or thimble located in said opening, the expanding thimble thus formed having an outer wall of suitable design or figuration and an inner wall, the said walls being suitably spaced by the yielding collar portion of the cap to prevent any possible escape of soot or fire from the chimney into a room or other compartment, and it consists in the details of construction as will be hereinafter more fully described.

Referring to the drawings 1 represents an outer circular disk of suitable ornamentation which in the present instance is convex in form, and when the cap is properly placed in position within the stove pipe opening of the chimney the said cap will present a finished appearance to the interior of the room. To the circular disk 1 is secured one edge of a circular yielding thimble 2 of

suitable size to be snugly received by the pipe opening in the chimney and said thimble is so secured to the disk 1 and of such a dimension as to provide an annular flange 3 as clearly shown in Fig. 2 of the drawings. In constructing the thimble 2 the same is made of a single piece of metal and split or sheared along its length, whereby the ends are adapted to overlap and thereby form a union as shown at 4, the edges thus overlapping being slidable and in yielding contact with one another whereby the thimble is self-adjusting to any size of pipe opening, the springy material of which the thimble is composed or made compensating for the action stated. Forming an integral part of the thimble 2 or attached to the rear edges of the latter in any suitable mechanical manner is a rear wall 5 composed of two semi-circular sections 6, the free edges of which also overlap, whereby the walls forming said sections are in a yielding contact with one another by which construction a closed inner end is provided for the cap thus constructed.

In order to cause the cap to operate under all conditions and to be properly yielding in its operation along the length of the cylinder of said cap, a coil spring 7 is employed which is located within the cylindrical portion 2 of the cap, the tendency of which spring is to assist in expanding the cylindrical portion of the cap.

From the foregoing description it will be seen that the cap as described can be easily and readily inserted into the stove pipe opening of the chimney by reason of its yielding construction and after the cap has been so inserted its yielding contour or construction will thoroughly and practically close the stove pipe opening into which the same is inserted, the double walls namely, the inner sectionalized one and the outer disk positively preventing fire from gaining access into the room or other compartment, the cylinder connecting said rear wall and disk forming an air chamber to prevent any accident in this respect.

Having thus described the invention what is claimed as new is:—

An adjustable cap for stove pipe openings comprising an outer concavo-convex disk, a yielding and expanding cylinder of less di-

ameter than the disk and secured to the concaved face of the disk, said cylinder being cut in the direction of its length and the edges thereof overlapping to form a union, 5 the rear end of said cylinder terminating in a flat wall cut at its middle whereby two semi-circular sections are provided the edges of which overlap, and a helical expansible

spring coiled on the inner surface of the cylinder for the purpose described. 10

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL S. WALES.

Witnesses:

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