

No. 821,792.

PATENTED MAY 29, 1906.

C. L. EMBODY.
FLUE STOPPER.

APPLICATION FILED MAR. 29, 1904.

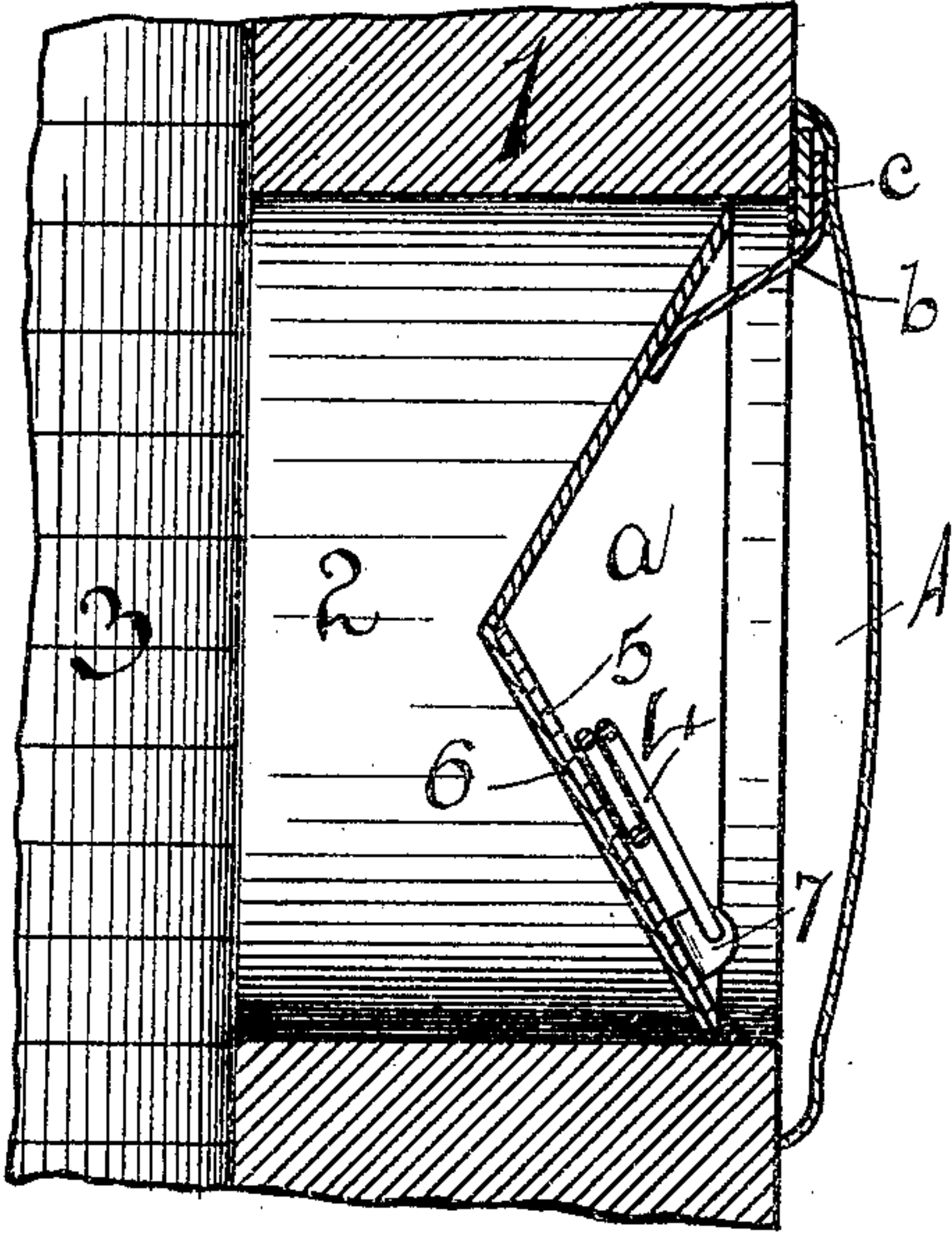
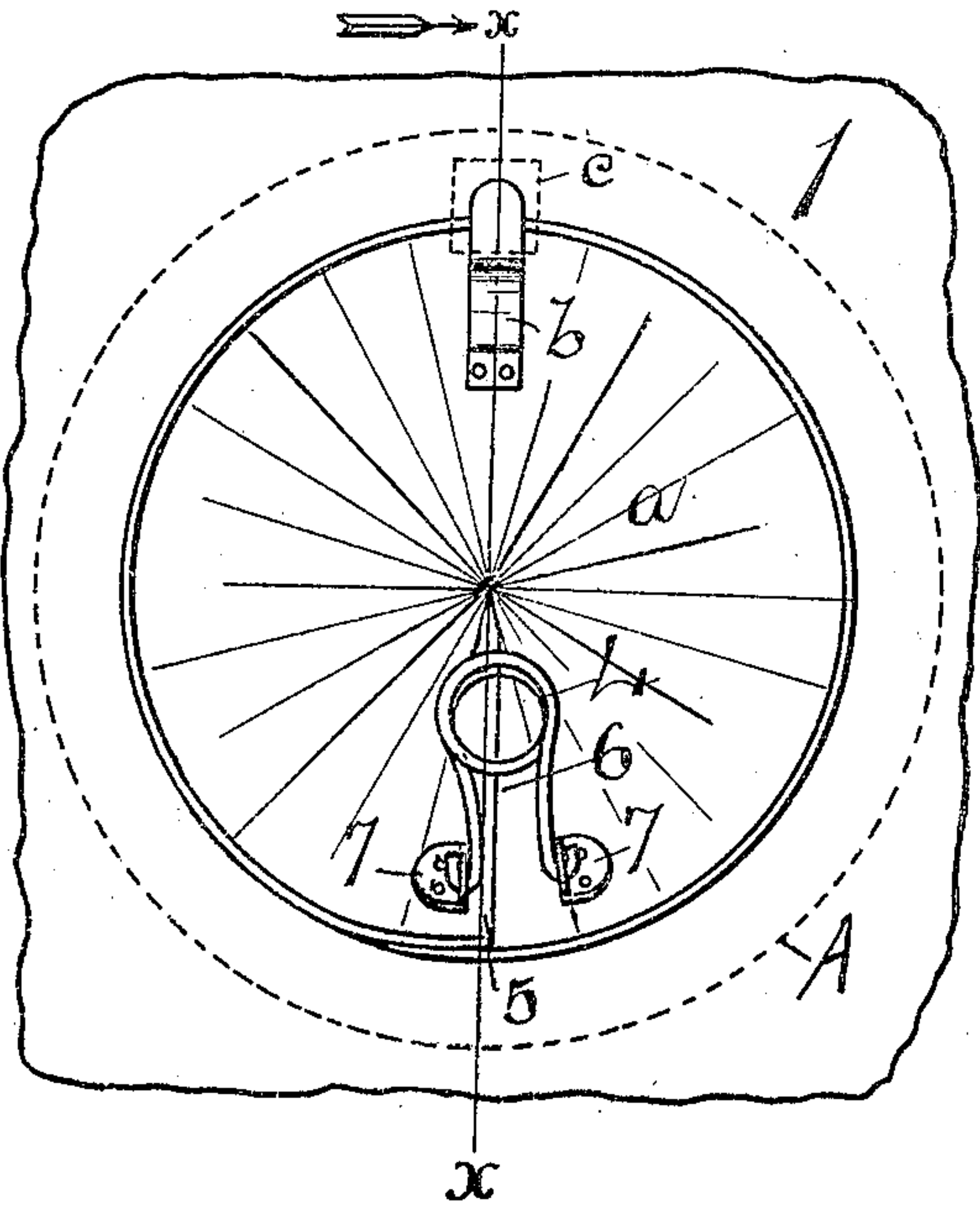


FIG 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES L. EMBODY, OF LINCOLN, NEBRASKA.

FLUE-STOPPER.

No. 821,792.

Specification of Letters Patent.

Patented May 29, 1906.

Application filed March 29, 1904. Serial No. 200,631.

To all whom it may concern:

Be it known that I, CHARLES L. EMBODY, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented certain useful Improvements in Flue-Stoppers; and I do hereby declare that the following is 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, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and useful flue-stopper.

The object of my invention is to provide a simple readily-operated device adapted to be adjustably secured within an ordinary flue to receive a thimble-cover, as will be disclosed more fully hereinafter.

In the accompanying drawings, Figure 1 shows a sectional view, with portions removed, of a flue provided with my flue-stopper and thimble-cover, while Fig. 2 shows a front view thereof, the cover being indicated in dotted lines.

In carrying out the aim of my invention, I provide a cone-shaped stopper *a*, which is in the form of a disk having a portion removed, so that this flat sheet-metal disk may be bent into the form of a cone, having an open seam in that two edges overlap, as is shown at 5 and 6 in Figs. 1 and 2. By means of these overlapping edges the peripheral edge of the stopper *a* may be adjusted to flues of different sizes. Secured to each overlapping edge 5 and 6 within the dish of the cone is an ear 7, as shown in Fig. 1, each ear being adapted to receive one end of an approximately U-shaped expansion-spring 4, which normally exerts an outward pressure to distend and force outward and so increase the peripheral edge of the stopper, so that this stopper forms a practically dust-tight connection with the circular flue 2, into which the stop-

per is to be inserted after the stove-pipe has been removed.

In Fig. 1 a portion of the chimney is shown disclosing a part of the smoke-flue 3.

Extending outward from the inner portion of my cone-shaped stopper *a* is a bracket *b*, adapted to engage an ear *c* of the thimble-cover A, as shown in Fig. 1.

Now in order to insert my flue-stopper it is simply necessary for the operator to clasp the ears 7, which perform a double function in that they form finger-holds by which the operator clasps and compresses the cone, so that the same may be inserted into the flue 2, and upon releasing these ears the cone-shaped stopper is sprung outward by means of the spring 4 to form a tight union within the flue 2. The covering then is easily hooked upon the bracket.

These flue-stoppers may be made of various sizes.

Having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

In a device of the character described, the combination with a sheet-metal cone-shaped stopper, comprising a disk having a portion removed to provide overlapping edges, so that the peripheral edge of said cone-shaped stopper may be adjusted to flues of different sizes, an ear secured near each overlapping edge within the dished side of said cover, a U-shaped expansion-spring secured to said ears to normally exert an outward pressure to distend the peripheral edge of said cone, a bracket secured within the dish of said cone-shaped stopper, and a thimble-cover provided with an ear engaging said bracket.

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

CHARLES L. EMBODY.

Witnesses:

JAS. W. MASTERS,

A. W. WOODS.