

No. 879,660.

PATENTED FEB. 18, 1908.

C. C. LUMAN.
FLUE STOP.

APPLICATION FILED JULY 11, 1907.

Fig. 1.

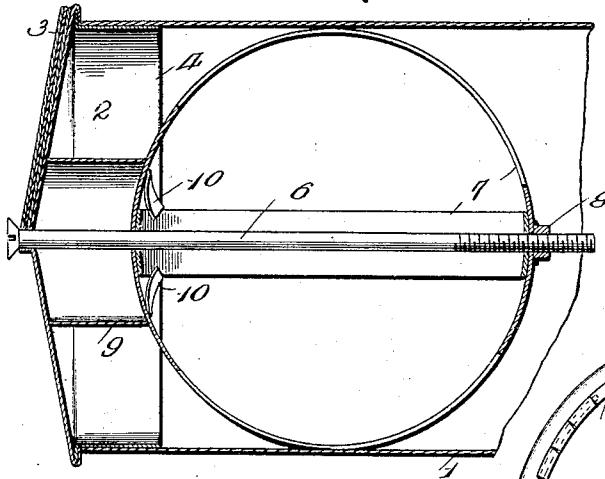


Fig. 2.

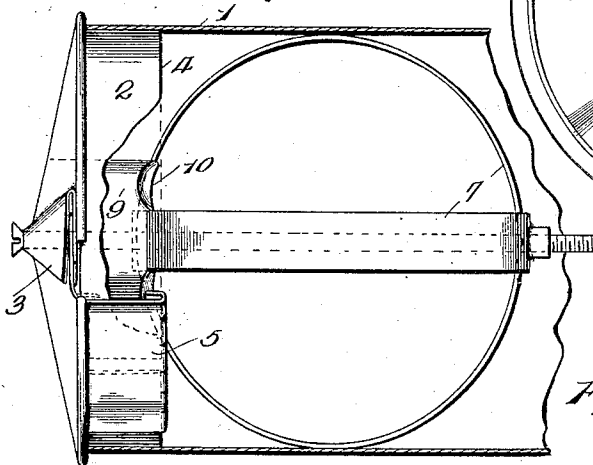


Fig. 3.

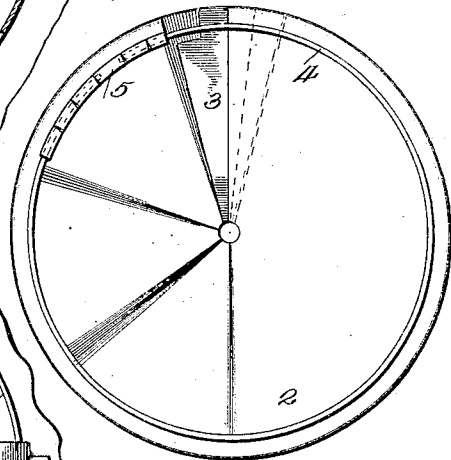


Fig. 4.

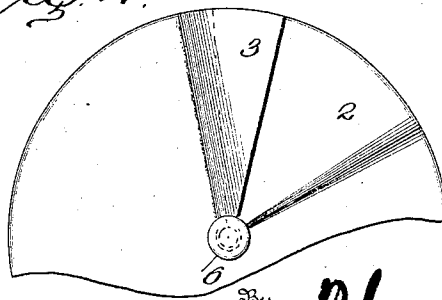
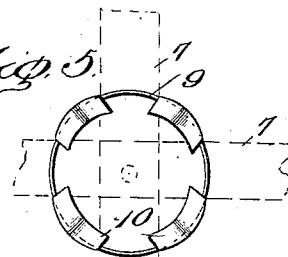


Fig. 5.



Inventor

C. C. Luman

Witnesses

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By

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UNITED STATES PATENT OFFICE.

CORNELIUS C. LUMAN, OF ERICK, OKLAHOMA, ASSIGNOR OF ONE-HALF TO J. F. CANNON, OF ERICK, OKLAHOMA.

FLUE-STOP.

No. 879,660.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed July 11, 1907. Serial No. 383,300.

To all whom it may concern:

Be it known that I, CORNELIUS C. LUMAN, citizen of the United States, residing at Erick, in the county of Greer, Oklahoma, have invented certain new and useful Improvements in Flue-Stops, of which the following is a specification.

The present invention is in the nature of an improved flue stop and aims to provide a novel device of this character which embodies peculiar means whereby it can be readily adjusted for various sizes of flues.

With this object in view the invention comprises essentially a flue stop in which the cover has an approximately conical formation, means being provided for expanding or contracting the base of the conical cover as may be required for the flue to which the stop is being applied.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a longitudinal sectional view through a flue stop embodying the invention. Fig. 2 is a similar view on a plane at right angles to that of Fig. 1. Fig. 3 is a rear plan view of the cover. Fig. 4 is a top plan view of a portion of the cover. Fig. 5 is a detail view of the spacing rings interposed between the cover and clamping rings.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the invention the numeral 1 designates a flue of the conventional type, and 2 the cover which is designed to be applied to the mouth of the flue. This cover 2 has an approximately conical formation and is formed from a single disk of sheet material having a radial slit therein, the disk being bent to cause the edges of the radial slit to overlap each other. A piece of sheet material 3 which is preferably segmental in shape is doubled upon itself and secured to one edge of the radial slit in the cover, the free edges of the said segmental strip extending beyond the edge of the slit and receiving the opposite edge of the slit loosely between them. It will thus be apparent

that the conical cover may be flattened or elongated as required and the base thereof correspondingly extended or decreased in size.

Extending inwardly from the periphery of the cover 2 is an expansible flange 4 designed to be received within the mouth of the flue 1, the two ends of the flange fitting against a splice plate 5 and being received by the returned edges thereof, one end of the flange having a sliding connection with the said splice plate whereby the said flange can be expanded or contracted with the cover. Extending through the central portion of the cover is a clamping bolt 6 which also passes through the intersecting portions of a pair of clamping rings 7, the inner portions of the rings having a threaded connection with the bolt through the medium of a nut 8. Interposed between the inner portions of the rings 7 and the cover 2 is a spacing ring 9 provided with the tongues 10 projecting between the intersecting portions of the rings 7 adjacent the cover and being bent into engagement therewith. It will thus be apparent that in applying the flue stop the clamping rings 7 are placed within the flue in the usual manner and the cover contracted until the flange 4 fits within the mouth of the flue. The clamping bolt 6 is then tightened and the clamping rings 7 thereby expanded laterally into a frictional engagement with the interior of the flue in the usual manner. At the same time the conical cover 2 is flattened and the flange 4 expanded into a close engagement with the mouth of the flue, thereby effectively closing the flue so as to prevent soot or smoke from entering the room.

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

1. A flue stop comprising an expansible cover, and means for retaining the cover in position.

2. A flue stop comprising an expansible cover, and means for holding the cover in position and retaining it in an expanded position.

3. A flue stop comprising an expansible cover, an expansible flange carried by the cover, and means for retaining the cover in position.

4. A flue stop comprising an expansible cover formed from a disk having a radial slit

therein the edges of which overlap and have a sliding connection, and means for retaining the cover in position.

5 5. A flue stop comprising an expansible cover formed from a disk provided with a radial slit the edges of which overlap, a doubled strip of material being applied to one of the edges and loosely receiving the opposite edge, and means for retaining the
10 cover in position.

6. A flue stop comprising an expansible cover formed from a disk provided with a

radial slit the edges of which overlap, a double segmental strip applied to one of the edges of the slit and loosely receiving the opposite edge, and clamping means carried by the cover for retaining it in position. 15

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

CORNELIUS C. LUMAN. [L. s.]

Witnesses:

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