

(No Model.)

L. J. HABERKORN & E. O. BECKMAN.
FLUE STOPPER.

No. 538,513.

Patented Apr. 30, 1895.

Fig. 1.

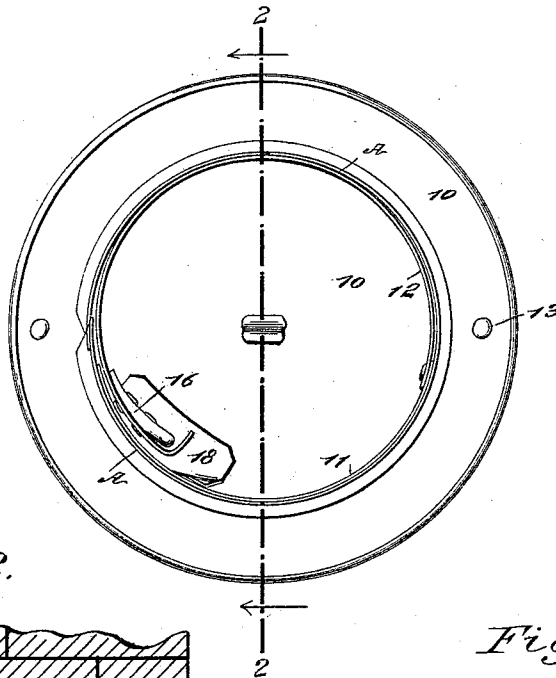


Fig. 2.

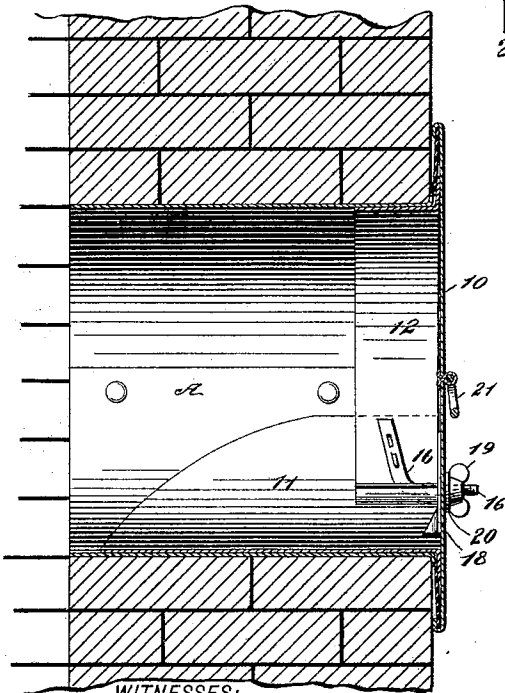
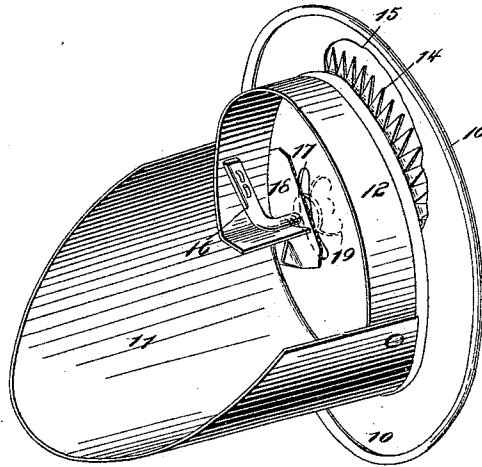


Fig. 3.



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LOUIS J. HABERKORN AND EDWARD O. BECKMAN, OF CHATSWORTH,
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FLUE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 538,513, dated April 30, 1895.

Application filed November 22, 1894. Serial No. 529,607. (No model.)

To all whom it may concern:

Be it known that we, LOUIS JOSEPH HABERKORN and EDWARD OTTO BECKMAN, of Chatsworth, in the county of Livingston and State of Illinois, have invented a new and Improved Flue-Stopper, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in flue stoppers, and it has for its object to provide a device of this description capable of being adapted to almost any size of thimble or flue body, and which when applied may be expeditiously and conveniently locked in position, the stopper effectually preventing smoke from entering a room from a stove located in any room and in communication with the same flue, thus avoiding the soiling of the walls or of the paper by smoke. The stopper is so formed that it locks itself in the flue hole or thimble and cannot possibly jar or fall out.

A further object of the invention is to construct the flue stopper in such a manner that it will be provided with a scoop section which will receive the soot that may accumulate in the thimble, and whereby when the stopper is removed from the flue the soot will not be spilled upon the floor or carpet of the room.

Another object of the invention is to construct the flue stopper in an exceedingly simple, durable and economic manner.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a rear elevation of a thimble with a flue-stopper applied thereto. Fig. 2 is a section taken practically on the line 2 2 of Fig. 1, illustrating the thimble in position in the flue and the stopper in position in the thimble; and Fig. 3 is a perspective view of the stopper, a portion of its flange being broken away.

In carrying out the invention the stopper consists primarily of a head 10, a scoop 11 firmly secured to the inner side of the head a predetermined distance from the margin, and a clamping collar 12 secured at one end to the

scoop and adjustable at the other end, the clamping collar together with the scoop forming an annular band or flange upon the inner face of the head, as shown in Fig. 3. The scoop 11, is of the usual formation, being practically semi-circular, and its inner end is tapering. The scoop is rigidly attached, as heretofore stated, to the head, by means of rivets 13, solder or equivalent means, and the said scoop is located at what may be termed the bottom portion of the head, the clamping collar 12 being at the top. The clamping collar is made of such length that it extends at its adjustable end well within the scoop, and the said collar from a point at or near its attachment to the scoop to a point near its adjustable end, is provided with a flange 14, and a pocket 15 is made in the inner face of the collar in which this flange has movement. The adjustable end of the clamp has an arm 16 secured to it, and the said arm extends outward through an opening 17 made in the head, the opening being of segmental form; and either upon the said arm 16, or upon the forward edge of the clamping collar a plate 18 is secured, adapted to cover the said slot 17, so that dust cannot possibly pass through the head when it is in position in a thimble, a flue pipe, or the equivalent thereof.

Ordinarily a thumb nut 19 and a washer 20, are placed upon the outer end of the arm 16 in order that the clamping collar may be held in any position in which it may have been adjusted. A handle 21, which may be in the nature of a ring, as shown, is ordinarily attached to the central portion of the outer face of the head, but may be otherwise placed if desired.

We desire it to be distinctly understood that any other approved form of locking device may be substituted for the thumb nut and washer.

In operation, when the flue stopper is placed in position in the thimble, the scoop will be at the bottom portion of the thimble, and the clamping collar will have been drawn inward or downward at its adjustable end to enable it to enter the upper portion of the thimble, and after the head of the stopper is in place against the outer end of the thimble, the

clamping collar is expanded until it is in firm engagement with the inner face of the thimble at which time it is locked in such position.

Having thus described our invention, we
5 claim as new and desire to secure by Letters Patent—

1. A flue stopper, comprising a head provided with a segmental slot, a collar on the inside of the head and having one end fixed and
10 provided at its other end with an arm projecting through the slot of the head, and means for locking the said arm in the slot of the head, substantially as described.

2. A flue stopper, comprising a head provided with a segmental slot, a collar having one end secured to a fixed support on the inside of the head, and provided with an arm at the other end, said arm projecting through the slot of the head, a guard on the arm for covering the slot of the head, and means for securing the said arm in the slot, substantially
20 as described.

3. A flue stopper, comprising a head, a scoop

projecting from the inner face of the head, a collar having one end secured to the scoop, 25 and its other end extending within the scoop, and adjustably secured to the head, said collar and scoop forming an annular flange or band on the inner face of the head, substantially as described.

4. A flue stopper, comprising a head provided with a slot, a scoop projecting from the inner face of the head, a collar having one end secured to the scoop and its other end extending into the scoop and forming therewith an
30 annular flange on the inner face of the head, a screw threaded arm secured to the end of the collar in the scoop and projecting through the slot of the head, and a nut on the outer end of the said arm, substantially as described.

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