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T. J. LAVERE.  
FLUE CLEANER.  
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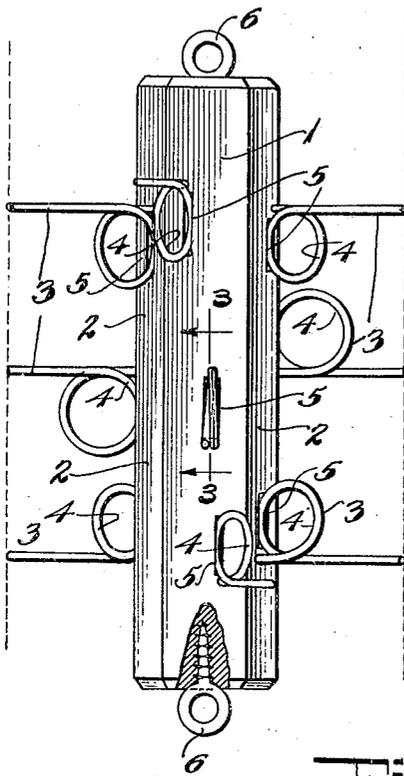


Fig. 1.

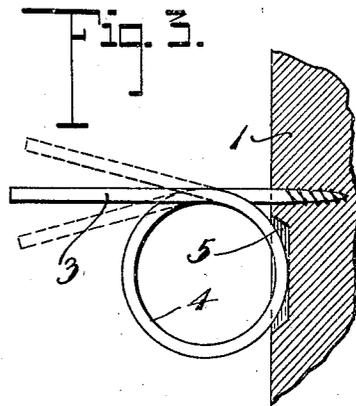
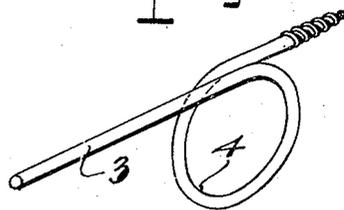
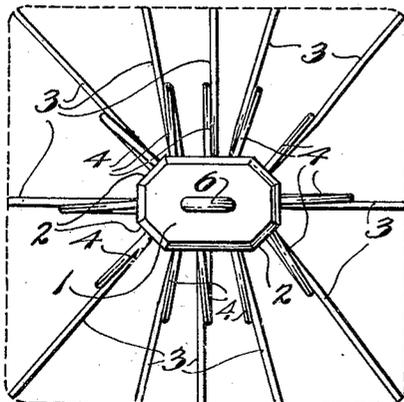


Fig. 3.

Fig. 2.

Fig. 4.



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# UNITED STATES PATENT OFFICE.

THOMAS J. LAVERE, OF BETHEL, VERMONT.

## FLUE CLEANER.

Application filed July 30, 1921. Serial No. 488,642.

*To all whom it may concern:*

Be it known that I, THOMAS J. LAVERE, a citizen of the United States, residing at Bethel, in the county of Windsor and State of Vermont, have invented certain new and useful Improvements in Flue Cleaners, of which the following is a specification.

This invention relates to cleaning apparatus and has for an object to provide a device that is especially adapted for cleaning chimney flues.

Another object of the invention is to provide a device adapted for cleaning chimneys having small crooked flues but which is adjustable for different sizes of flues.

A further object of the invention is to provide a flue cleaner which is simple and durable in construction, inexpensive to manufacture, and efficient.

These and such other objects as may hereinafter appear are attained by the novel construction, combination and arrangement of parts to be hereinafter specifically described and claimed.

Reference will now be had to the accompanying drawings forming a part of this specification, wherein:

Figure 1 is a side elevation of the complete device.

Figure 2 is an end view of the device.

Figure 3 is a transverse sectional view taken on the line 3—3 of Figure 1 and looking in the direction of the arrows.

Figure 4 is a detail view of one of the cleaning elements.

Throughout the following detailed description and on the several figures of the drawing, similar parts are referred to by like reference characters.

Referring to the drawings, the reference numeral 1 indicates a support consisting of an oblong block of hard wood having its longitudinal edges beveled as indicated by the reference numeral 2.

Fastened in the sides and beveled edges of the supporting block are a plurality of cleaning elements 3. Each element consists of a piece of spring steel wire formed with a loop 4 intermediate its ends, one end of the element being screw-threaded. Each element is adjustably fastened to the block by being screwed thereinto until its loop portion engages in a slot 5 in the block, the interlocking engagement of the loop in the slot preventing the element from turning relative to the block when in use. It will be

noted that due to the resiliency of the material out of which the element is made it can be screwed down into the block until a firm interlocking engagement is had between the loop and slot.

The elements secured in the beveled edges of the block project further from the block than the elements secured in the sides thereof so that in use the elements secured in the beveled edges would scrape the corners of a flue and the elements secured in the sides of the block would scrape the sides of the flue.

Owing to the screw-threaded connection of the elements to the block they can be adjusted within limits so as to increase or decrease the size of the cleaning device to correspond with the size of the flue to be cleaned while maintaining the interlocking engagement between the loops and slots.

Screw-eyes 6 are secured in the opposite ends of the block, one for the attachment of a weight and the other for the attachment of a rope.

The manner of using the device is as follows: The elements 3 will be adjusted in the block so that the device will properly fit the particular flue to be cleaned. A weight will then be attached to the screw-eye in one end of the block and a rope to the screw-eye in the other end. The device can be inserted within the flue from the top thereof, the weight carrying the device down into the flue and causing the elements thereof to scrape the flue. By means of the rope and weight the device can be reciprocated in the flue until the cleaning elements 3 have dislodged substantially all the soot deposited therein and caused it to drop into the bottom thereof.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A cleaning device of the class described comprising a support, and a plurality of adjustable cleaning elements, each element having a threaded shank for screwing the element into the support, said support having means with which the elements interlock as an incident to the screw of such element thereinto whereby to prevent accidental displacement thereof.

2. A cleaning device of the class described comprising a support, and a plurality of scraping elements adjustably mounted on the support to project more or less therefrom, said support having interlocking re-

cesses in which said elements are adapted to interlock to prevent accidental displacement thereof.

- 5 3. A chimney cleaning device of the class described comprising a block having projecting from the faces thereof a plurality of spring fingers each formed intermediate its length with a loop and adjustable inwardly and outwardly of said block, the  
10 latter having a recess adjacent to each finger with which the loop thereof is adapted to interlock when the finger is adjusted, and means at one end of said block for suspending the same to permit of its operation.  
15 4. A cleaning device comprising a sup-

porting block having beveled edges and a plurality of cleaning elements adjustably secured in the sides and beveled edges of the block, each of said elements consisting of a piece of wire having a loop intermediate  
20 its ends and having an end screw-threaded for engagement with the supporting block, the elements secured in the beveled edges of the block projecting a greater distance from  
25 the block than the elements secured in the sides thereof so as to be engageable with the corners of the flue to be cleaned by the device.

In testimony whereof I affix my signature.  
THOMAS J. LAVERE.