

R. White,

Lamp-Chimney Cleaner,

N^o 50,310,

Patented Oct. 3, 1865.

Fig. 1.

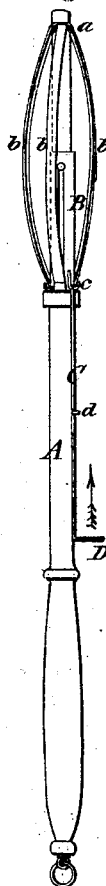
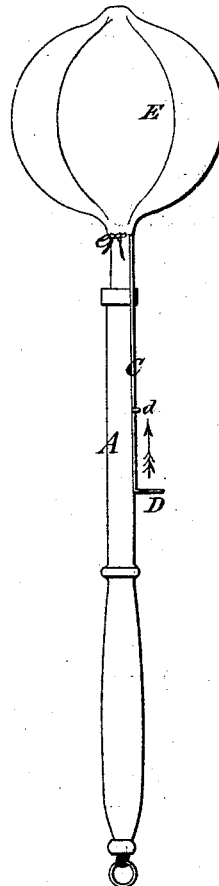


Fig. 2.



*Witnesses,
Thos. Busch
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UNITED STATES PATENT OFFICE.

ROBERT WHITE, OF KINGSTON, CANADA WEST, ASSIGNOR TO FURNALDS
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IMPROVED LAMP-CLEANER.

Specification forming part of Letters Patent No. 50,310, dated October 3, 1865.

To all whom it may concern:

Be it known that I, ROBERT WHITE, of Kingston, Province of Canada West, have invented a new and useful Device for Cleaning Lamp-Chimneys; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an external view of my invention, with the cover removed in order to show the expanding frame. Fig. 2 is an external view of the same, with the cover placed on the frame, all being ready for use.

Similar letters of reference indicate like parts.

My invention relates to an improvement on an improvement for cleaning lamp-chimneys, patented by T. B. De Forrest, January 15, 1861; and it consists in the formation of an eye in each end of the ribs which constitute the expanding frame, through which eyes is run a wire, which is secured around the slide at the one end of the ribs and around the handle at the other, the said eye enabling the ribs to turn down instead of bending at the points of connection with the handle, which renders the ribs less liable to break or get loose at or near the said points of connection than if they were rigidly secured to the slide and handle at those points.

It also consists in the employment or use of a sliding rod or thumb-piece connected to the lower end of the slide and following the handle to a distance easily reached by the thumb, which rod when pushed forward causes the ribs to bulge out or expand laterally, and its use enables the ribs of the expanding frame to be placed nearer the end of the handle and to be made shorter, which of course gives a more spherical form to the expanding frame; and this is found more effective and more easily operated in the chimney, and it cleans it more thoroughly in all parts than with it otherwise.

A represents a rod or holder, which may be

of metal or wood. The latter material will probably be most generally used. This rod or holder may be turned in a lathe or other suitable machine, and at one end of it there are attached by a wire, *a*, elastic metal strips *b*. Steel properly tempered would be the preferable material. The strips *b* are attached at their opposite ends by a wire, *c*, to a tubular slide, *B*, which is fitted on the rod or holder.

To the tubular slide *B* there is connected a rod, *C*, which passes through a guide, *d*, on the rod or handle, and is bent or curved at its inner or lower end to form a button, *D*, for the thumb to bear or press against.

The strips *b* have a tendency to retain a collapsed state—that is to say, remain in quite close proximity to the rod or holder *A*, and they may be expanded at any time, so as to assume a more or less spherical form, by pressing the thumb of the hand which grasps the rod or handle *A* against the button *D* in the direction indicated by the arrow. These strips *b* form an elastic frame, which is encompassed by a cover, *E*, constructed of Canton flannel, buckskin, or any other suitable material, said cover having a string, *e*, at its open end, by which it may be secured to the rod or handle. (See Fig. 2.)

The frame, with the cover upon it, is inserted in the chimney to be cleaned, and the frame and cover are expanded by actuating the rod *C* so that the cover will be brought in contact with the inner surface of the chimney, all parts of the latter being acted upon by turning either the implement or chimney. The cover *E* serves as a wiper or cleaner, while the strips *b*, which will be more or less prominent, serve as scrapers to dislodge the dirt or smoke which may adhere to the chimney.

The elasticity of the strips *b*, besides being expanded and contracted under the movement of the slide *B*, admits of the cover *E* conforming in a measure to the varying form and diameter of the interior of the chimney.

The device is extremely simple and efficient, and may be made at a trifling cost.

The strips *b* may be of flat, cylindrical, or other form.

I do not claim any feature shown or claimed in the patent of T. B. De Forrest, issued January 15, 1861; but

I claim as new and desire to secure by Letters Patent—

The combination of the thumb-piece D, tubular slide B, and elastic ribs *b b b*, the latter being formed at each end with eyes or loops,

by which they are hinged at their upper ends permanently to the handle A and at their lower ends to the slide B, all as herein specified.

ROBERT WHITE.

Witnesses:

H. A. HARVEY,
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