No. 674,190. Patented May 14, 1901.

D. S. ZEILER.

LAMP CHIMNEY CLEANER.

(Application filed Mar. 5, 1901.)

(No Model.)

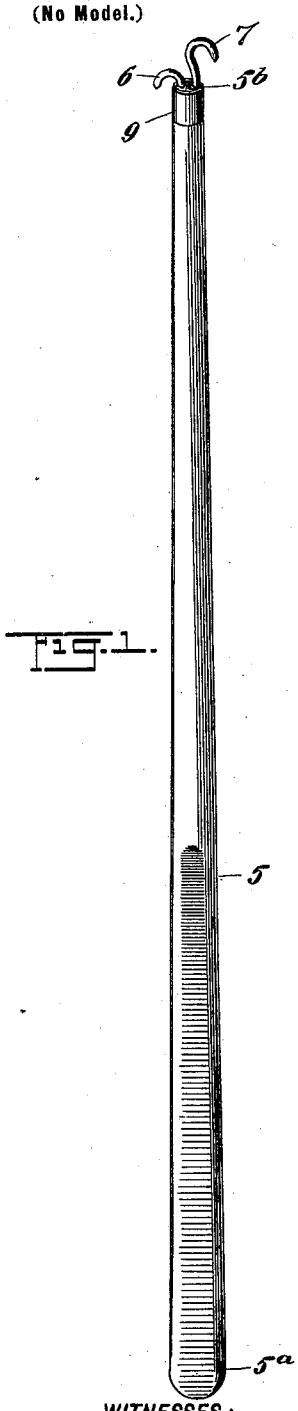


Fig. 1.

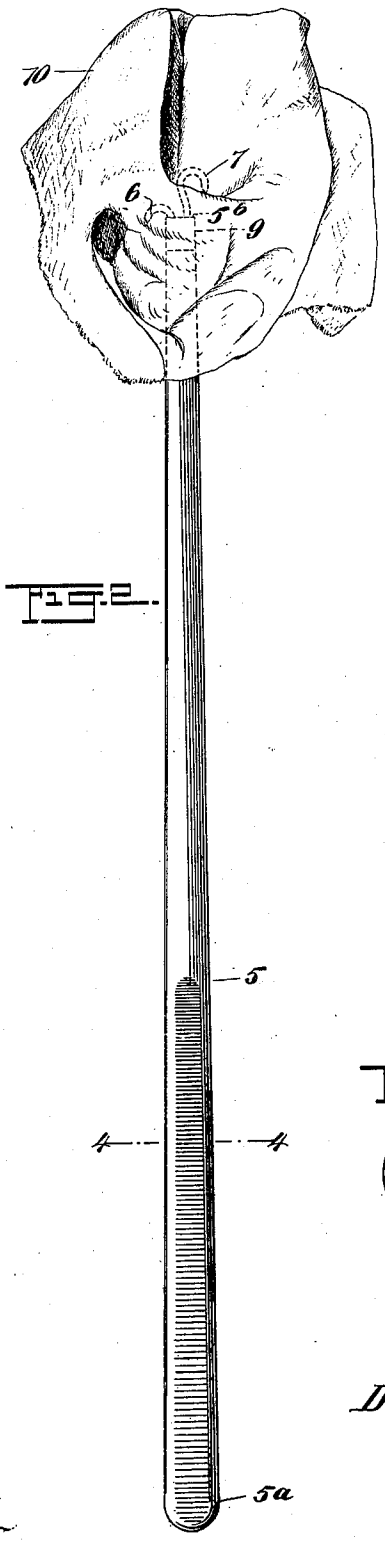


Fig. 2.

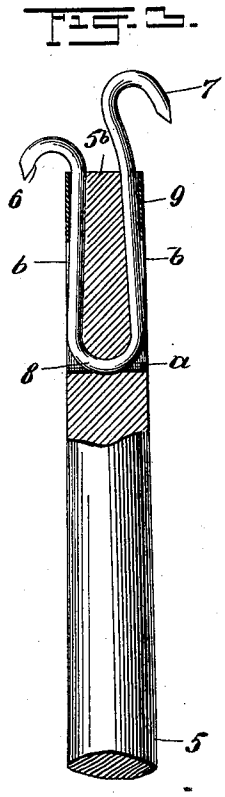


Fig. 3.

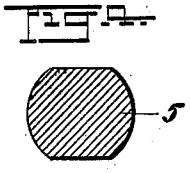


Fig. 4.

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DANIEL S. ZEILER, OF SUMNEYTOWN, PENNSYLVANIA.

LAMP-CHIMNEY CLEANER.

SPECIFICATION forming part of Letters Patent No. 674,190, dated May 14, 1901.

Application filed March 5, 1901. Serial No. 49,770. (No model.)

To all whom it may concern:

Be it known that I, DANIEL S. ZEILER, a citizen of the United States, and a resident of Sumneytown, in the county of Montgomery and State of Pennsylvania, have invented a new and Improved Lamp-Chimney Cleaner, of which the following is a full, clear, and exact description.

This invention relates to a class of devices employed for cleaning lamp-chimneys by manual application, and has for its object to provide a device of the character indicated which is of novel, simple, and inexpensive construction, that may be readily manipulated, and which will afford convenient means for the perfect cleaning of the interior surfaces of lamp-chimneys in an expeditious manner.

The invention consists in the novel construction and combination of parts, as is hereinafter described, and defined in the appended claims.

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

Figure 1 is a side view of the implement. Fig. 2 is a like view with a wiper applied to the implement. Fig. 3 is an enlarged and partly-sectional view of the upper portion of the device, showing novel features of construction; and Fig. 4 is a transverse sectional view on the line 4 4 in Fig. 2.

In the drawings, 5 indicates the elongated handle of the improved chimney-cleaner, which may with advantage be made of wood. The body of the handle 5 is preferably tapered somewhat from the grip end 5^a to the tip 5^b, and to afford shapeliness as well as convenience in manipulation said body may be formed mainly cylindrical. At a suitable distance from the tip 5^b a transverse perforation *a* is formed in the handle, and two opposite longitudinal grooves *b b* extend from the perforation *a* to the tip, as indicated in Fig. 3.

Two hooks 6 7 are provided, which project, preferably, in opposite directions from the handle at the tip 5^b, these hooks affording reliable and convenient means for detachably holding a yielding wiper upon said end of the handle. Different means may be employed for the connection of the hooks 6 7 with the handle 5, but for facility of manufacture and cheapness as well as durability it is preferred to construct and affix the hooks in place as shown in the drawings. In this construction and arrangement of the hooks 6 7 one piece of wire rod 8 is employed, having proper length and diameter, said rod being pointed at each end. The wire rod 8 is passed through the perforation *a* in the body of the handle 5 far enough to provide a proper length of material at each side thereof, and said portions are then bent so as fold them into the grooves *b b*.

A ferrule 9 is fitted closely upon the tip of the handle 5, and this ferrule is driven into place on the handle while ends of the wire rod 8 are as yet unbent, which permits the location of the ferrule on the handle, as explained. With a proper tool the hooks 6 7 are now formed from the portions of the wire rod 8 that project above the ferrule 9, and, as before mentioned, said hooks are oppositely projected.

It will be seen that by the described construction and arrangement of parts the hooks 6 and 7 are very securely held in place on the tip of the handle 5 and, furthermore, that the ferrule 9 is prevented from displacement by the hooks, which bear forcibly upon its inner surface and outer end.

The wiper 10 may be of any suitable fibrous material, such as woolen or cotton fabric, or, if preferred, a piece of wet sponge may be utilized to cleanse the interior of a lamp-chimney that is very dirty. The sponge or piece of cloth may be readily engaged by the hooks 6 7, as indicated in Fig. 2, which will enable the operator to pass the wiper into a lamp-chimney and clean it by gently rubbing the entire surface with the wiper.

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

1. A cleaner, comprising a handle, two hooks oppositely formed on a looped wire rod, the looped portion of the rod being bedded in an end portion of the handle, and a ferrule adapted to secure the wire loop in place on the handle.

2. A cleaner device, comprising an elongated handle having a transverse perforation near one end and two grooves extended from

said perforation to the tip of the handle, a wire rod passed partially through the perforation and bent to occupy the grooves, and a ferrule holding said members of the wire rod in the grooves, the portions of the wire rod which extend beyond the ferrule being bent to form opposite hooks.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL S. ZEILER.

Witnesses:
ESTHER A. GRAUL,
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