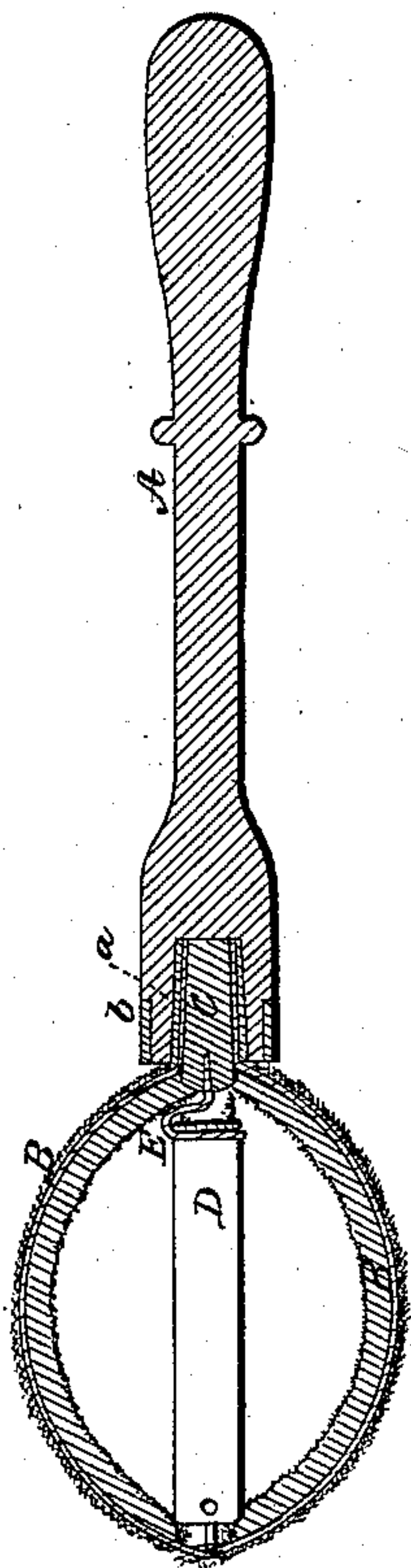
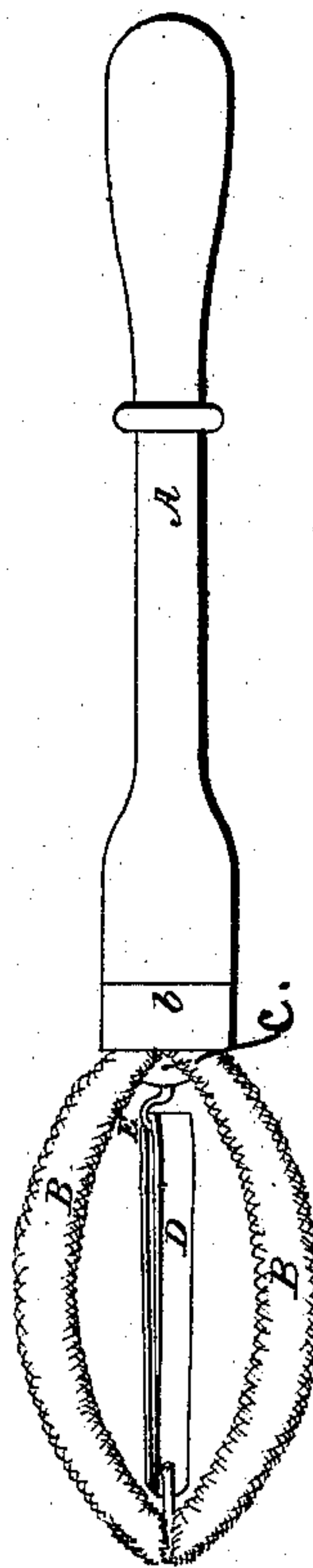


*B. F. Horn,*  
*Lamp-Chimney Cleaner,*  
*No 55,862,                      Patented June 26, 1866.*

*Fig. 2.*



*Fig. 1.*



*Witnesses*

*F. C. C.                      George Andrews*

*Inventor*

*B. F. Horn*

*by his attorney*

*R. H. Bddy*

# UNITED STATES PATENT OFFICE.

BENJAMIN F. HORN, OF BOSTON, MASSACHUSETTS.

## IMPROVED LAMP-CLEANER.

Specification forming part of Letters Patent No. 55,862, dated June 26, 1866.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. HORN, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Apparatus for Cleaning Lamp-Chimneys; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a side view, and Fig. 2 a longitudinal section of it.

In the said drawings, A denotes a handle, formed of wood, with a socket, *a*, in its upper end, and provided with a metallic ferrule, *b*, arranged at the said end, and so as to encompass the same. Within this socket, and so as to project from it as exhibited in the drawings, there is inserted a series of elastic springs, B B B, each of which is curved to the arc of a circle, or thereabout, and is covered with cotton velvet or other suitable material, the pile when velvet is used being arranged outwardly. These springs are held in place within the handle or stock A by means of a conical plug, C, driven into the socket, water-proof cement being previously applied to such plug, so as to set and fasten it and the springs in place. The several springs are to be connected together at their outer ends and to an elastic spring or loop, D, composed of india-rubber, the said loop being attached to the springs at their connection with each other. A hook, E, is inserted in and projects from the plug in

manner as shown, and is designed to enter the looped spring when the latter is drawn down for being hitched upon it.

The looped spring is intended to impart to the bow springs or cleaners the necessary additional elasticity, which may be removed from them by unhitching the looped spring from the hook.

Each of the metallic bow-springs may be covered with thread braided on it, or it may be without any such covering, the material or velvet applied to it being a separate or additional covering.

By forcing the series of bow-springs into a glass lamp-chimney and moving them back and forth and revolving them therein we may cleanse the interior surface of such chimney.

I make no claim to a chimney-cleaner composed of a handle and a series of bowed springs, or the same and a cloth bag or cap applied to all of them; but

What I do claim as my invention is—

My improved lamp-chimney cleaner as made with the loop-spring D, or its equivalent, and the hook E, arranged and combined with the series of covered bow-springs and the handle, arranged and applied together substantially as specified.

BENJ. F. HORN.

Witnesses:

R. H. EDDY,  
GEORGE ANDREWS.