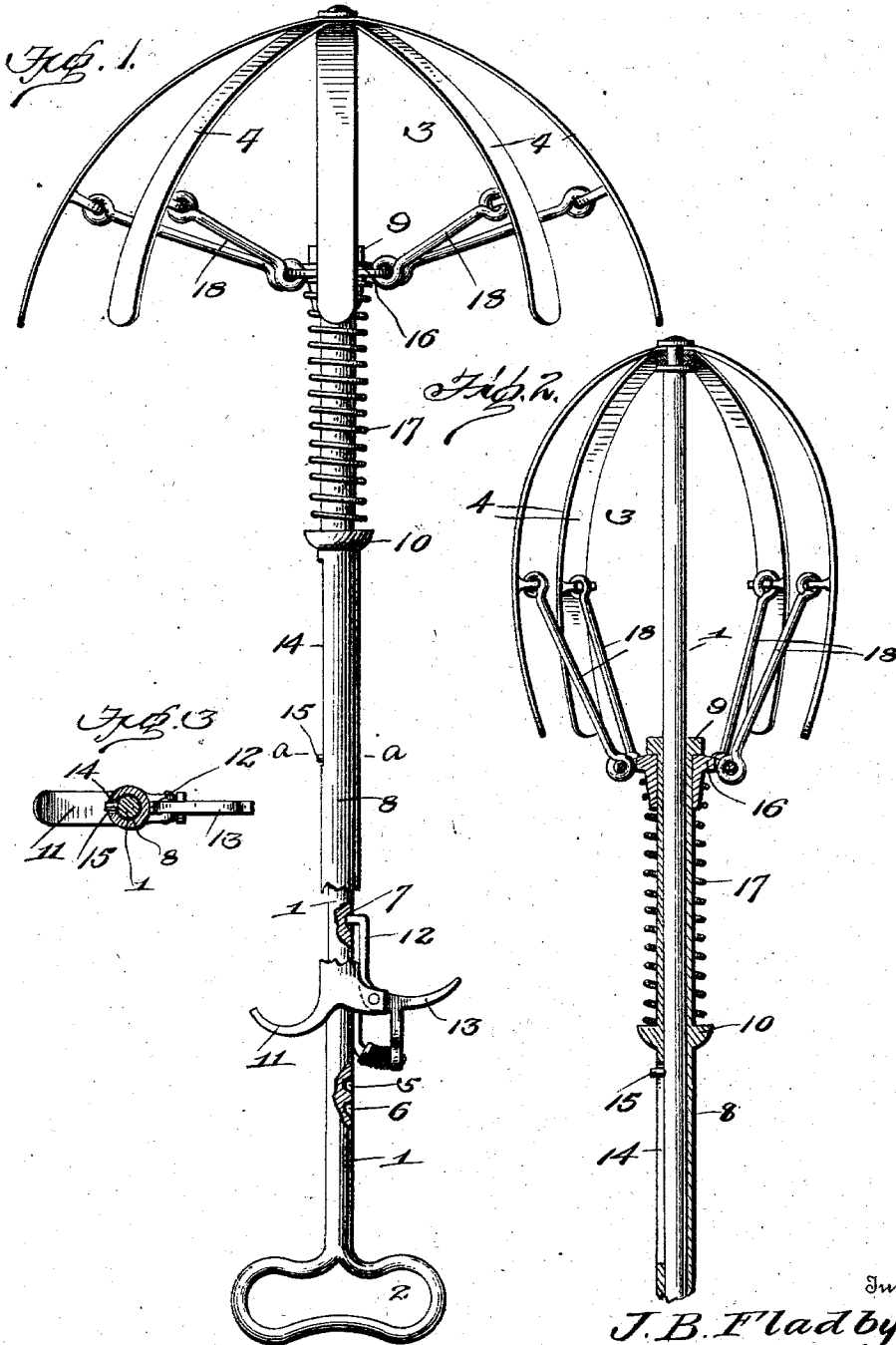


J. B. FLADBY.
LAMP CHIMNEY CLEANER.
APPLICATION FILED FEB. 12, 1903

NO MODEL



Inventor

J. B. Fladby

Witnesses

C. Hunt
L. O. Hilton

By

A. R. Wilson

Attorney

UNITED STATES PATENT OFFICE.

JOHN B. FLADBY, OF RUTLAND, NORTH DAKOTA.

LAMP-CHIMNEY CLEANER.

SPECIFICATION forming part of Letters Patent No. 730,359, dated June 9, 1903.

Application filed February 12, 1903. Serial No. 143,078. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. FLADBY, a citizen of the United States, residing at Rutland, in the county of Sargent and State of North Dakota, have invented certain new and useful Improvements in Lamp-Chimney Cleaners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention is an improved lamp-chimney cleaner; and it consists in the peculiar construction and combination of devices hereinafter described and claimed.

The object of my invention is to provide an improved device of this character provided with an expansible head having spring members adapted to carry the paper, cloth, or other fabric used for cleaning the chimney and to be adjustable to regulate the pressure of the fabric or paper against the interior of the chimney while cleaning the same.

In the accompanying drawings, Figure 1 is an elevation of a lamp-chimney cleaner embodying my improvements with parts in section. Fig. 2 is a detail longitudinal sectional view of the same, showing the expansible head partly closed. Fig. 3 is a detail transverse sectional view taken on the plane indicated by the line *a a* of Fig. 1.

In the embodiment of my invention I provide a rod 1, which has a handle 2 at one end. At the opposite end is a head 3, comprising a plurality of radially-disposed spring-arms 4. The rod has near its handled end stop-notches 5 6 and is further provided at a suitable distance from its handled end with a stop-notch 7. A sleeve 8, which is cylindrical in form, is slidable longitudinally on the rod 1, is provided at the end nearest the head with an annular flange 9, is further provided at a suitable distance from the said flange with a flange 10, forming a stop, and is provided at its outer end with an arm 11, forming a finger-pull. A spring-pressed dog 12 is pivotally connected to the outer end of the said sleeve 8 and is adapted to engage the stop-notches 5, 6, and 7. Said spring-pressed dog has an arm 13 adapted to be grasped by the finger of the operator in order to release the dog from one of the said stop-notches. In one side of the sleeve 8 is an elongated slot 14. A stud 15,

which projects from the rod 1, enters and travels in the said slot.

A collar 16 is slidable on that portion of the sleeve 8 between the flanges 9 10. A spring 17, which is here shown as a coiled extensible spring, is on the said portion of the said sleeve. One end thereof bears against the stop-flange 10 and its free end bears against the collar 16. The function of the said spring, as will be understood, is to normally press the said collar on the said sleeve. Said collar is connected to the respective spring-arms 4 of the head 3 by link-rods 18, which are pivotally connected both to said collar and to said spring-arms.

The paper, cloth, or other fabric to be employed for cleaning the inside of a lamp-chimney is placed on the spring-head while the latter is expanded, and the sleeve is then drawn outwardly on the rod to draw the outer ends of the spring-arms of the head inwardly and cause the same to become engaged with the paper or fabric, and the sleeve is then appropriately locked to the rod by causing the dog to engage one of the stop-notches thereof. The expansible head thus covered by the paper or fabric is then inserted in the chimney and the expansible head varied any radial extent to accommodate it to the size of the chimney. When the sleeve is locked to the rod, the spring 17 and the collar 16, which is slidable on the sleeve and connected to the spring-arms of the expansible head by the link-rods, enables the said spring-arms to accommodate themselves to the shape and size of the chimney as the implement is manipulated therein.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. A lamp-chimney cleaner comprising a rod, an expansible head having radially-disposed

arms, a sleeve slidable on the rod, means to adjust said sleeve on and secure the same to said rod, an element slidable on the sleeve, connections between said element and the
5 arms of the expansible head, and a spring to normally expand said head, substantially as described.

2. In a lamp-chimney cleaner, the combination of a rod, an expansible head having
10 radially-disposed spring-arms, a sleeve slidable on said rod, means to adjust and secure said sleeve, an element slidable on said sleeve, and connections between said element and the spring-arms of the head, substantially as de-
15 scribed.

3. The combination in a lamp - chimney

cleaner, of a rod having a handle at its outer end, an expansible head at the opposite end of the rod, a sleeve slidable on the rod and having a finger-pull, a dog carried by the sleeve
20 and adapted to lock the same to the rod, a collar slidable on the sleeve, links connecting said collar to the expansible head, and a spring acting on the said collar to expand said head, substantially as described. 25

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN B. FLADBY.

Witnesses:

O. WEDIN,

ED. BENTSON.