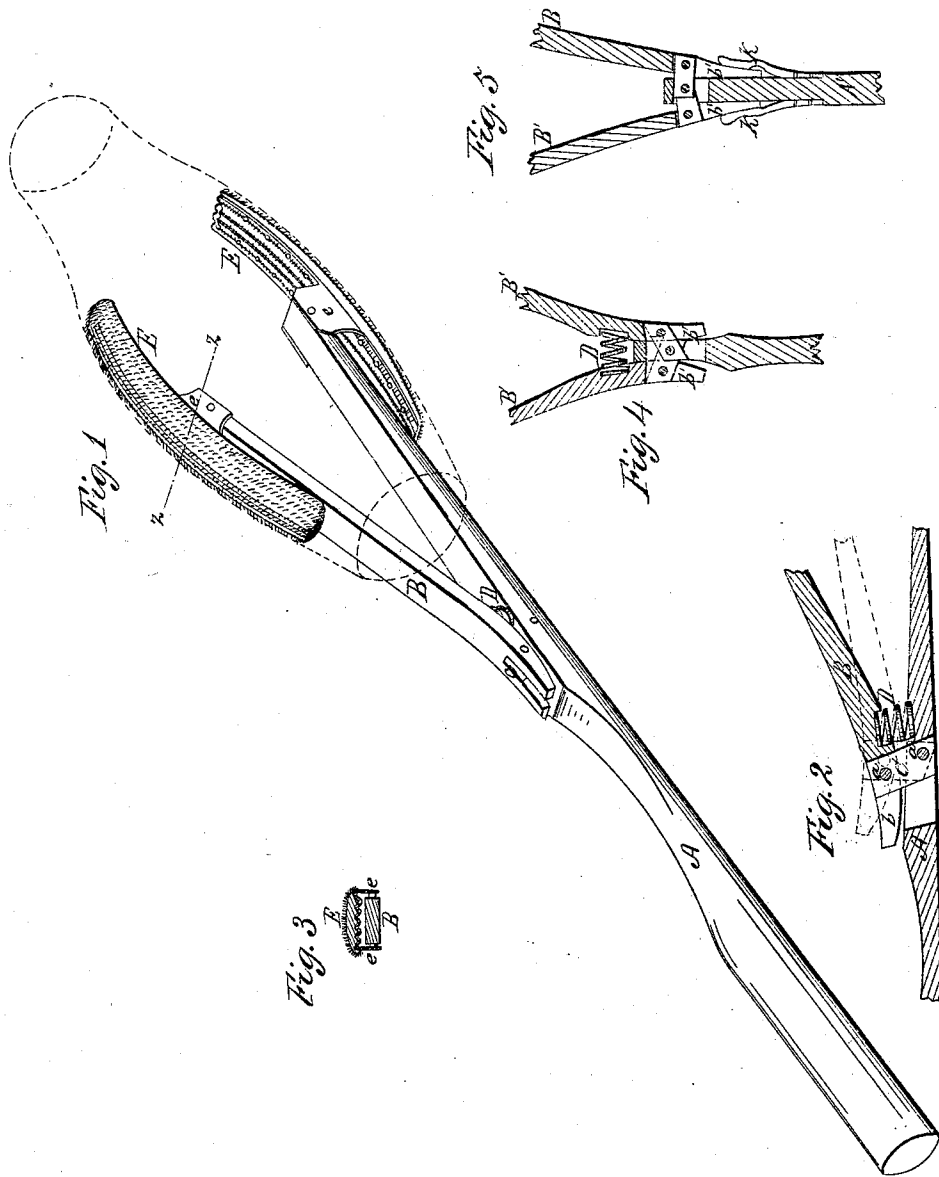


W.B. Barnard,

Lamp-Chimney Cleaner,

N^o 57,460.

Patented Aug. 28, 1866.



Witnesses;
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UNITED STATES PATENT OFFICE

WILLIAM B. BARNARD, OF WATERBURY, CONNECTICUT.

IMPROVED LAMP-CHIMNEY CLEANER.

Specification forming part of Letters Patent No. 57,460, dated August 28, 1866.

To all whom it may concern:

Be it known that I, WILLIAM B. BARNARD, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new and Improved Cleaner for Lamp-Chimneys, Jars, Bottles, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a view, in perspective, of my improved cleaner in its simplest form inserted in a lamp-chimney; Fig. 2, a longitudinal section through the same at its hinge, showing the position and arrangement of the spring combined therewith; Fig. 3, a transverse section through one of the cleaning-pads in the line *zz* of Fig. 1, showing its peculiar corrugated form; Figs. 4 and 5, longitudinal sections at the joints of such forms of my improved cleaners as have both arms pivoted, showing the several modes of combining springs therewith.

The nature of my invention consists in the manufacture of a lamp-chimney cleaner having one or two arms pivoted to a handle, said arms being kept open and apart by means of springs interposed between them, or between the arm and handle, or bearing outwardly upon them below their pivot, as seen in Fig. 5.

The cheapest, simplest form of my invention is that illustrated in Figs. 1 and 2 of the drawings.

I take a simple stick or strip, A, hinge thereto one end of an arm, B, by means of a small metallic plate, C, Fig. 2, which passes into slots cut both in the strip A and the end of the arm B, and is pivoted to each by means of pins *a a* passing transversely across said slots and through the ends of the plate, as seen in Fig. 2, and insert a spiral spring, D, in recesses cut in the opposite faces of said arm B and strip A above the hinge C. This spring D forces apart the strip and arm with their attached pads until short projecting end of the arm B below the hinge C strikes and bears against the face of the strip.

The pads E E, attached to the ends of the arm and strip, or of the two arms illustrated in Figs. 4 and 5, are constructed of narrow

pieces of very thin metal, made plane or corrugated lengthwise to give them the necessary stiffness with the smallest weight of metal, and padded or lined with cloth, felt, wool, or other soft cleansing substance. These pads are fitted with central side ears projecting upward to embrace the ends of the arms, and form bearings for the pivot-pins by means of which they are hinged or swung thereto.

In Fig. 4 I have illustrated my improved cleaner as constructed with two arms, B' B', pivoted to a handle, A', one on each side of its upper end, said arms being kept apart by means of a spiral spring, D, inserted between them above the same, and limited in their play by the form and length of the ends of said arms *b' b'* below their pivots. Pads are hinged to the outer ends of the arms, as herebefore described.

I contemplate substituting for a spiral spring, D, interposed between the arms B' B', two flat side springs, K K, having one end of each secured to the side of the handle below the arms, and the other bearing and pressing against the lower end of each arm below its hinge, all as fully illustrated in Fig. 5 of the drawings.

My improved cleaner presents the advantages of great simplicity in construction and efficiency in use, and can be more cheaply manufactured than any other known to me.

Having thus fully described my improved instrument for cleaning lamp-chimneys, &c., I claim—

1. As a new article of manufacture, a lamp-chimney cleaner having one or more arms, B B', hinged to a handle, A, and so combined with a spring, D, as herein described, so placed above the hinge or hinges as to force said arms outwardly, all substantially in the manner and for the purpose herein set forth.

2. Corrugating the pads E E of a lamp-chimney cleaner substantially in the manner and for the purpose herein set forth.

The foregoing specification of my improved lamp-chimney cleaner signed by me.

WILLIAM B. BARNARD.

In presence of—

JOHN W. PAUL,
A. J. BARNARD.