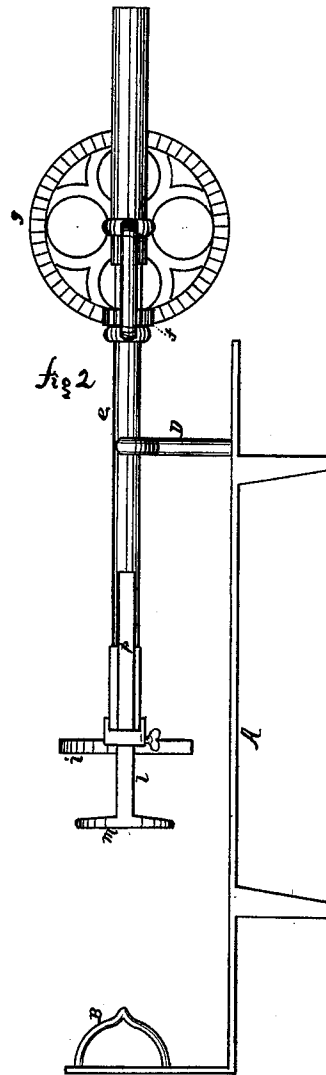
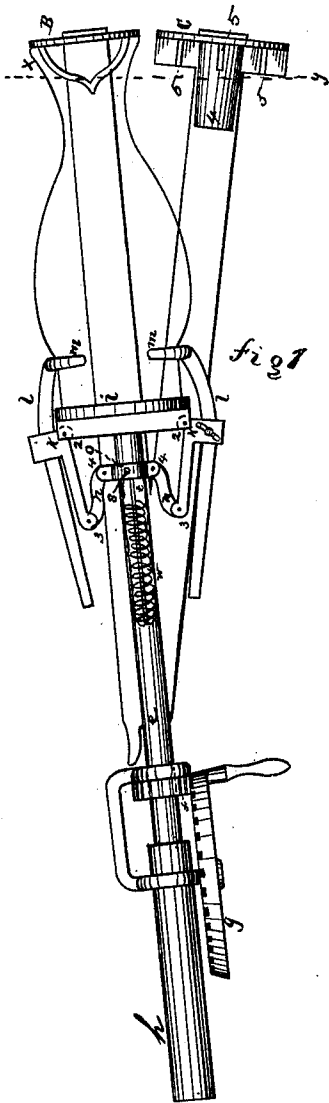


L. STOEHR.

TOOLS FOR FLARING AND CRIMPING LAMP CHIMNEY TOPS.  
No. 176,449.

Patented April 25, 1876.



Witnesses

B. L. Johnston  
D. J. K. Rine

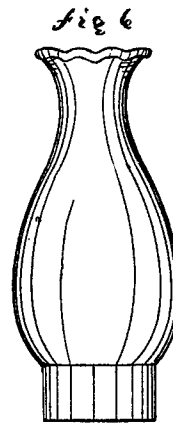
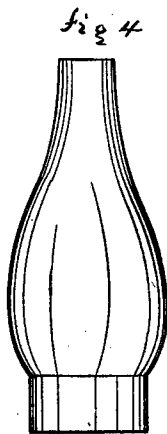
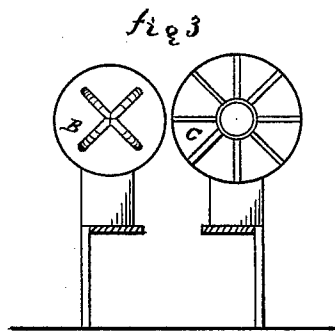
Inventor

Lorenz Stoehr  
By A. C. Johnston  
His Attorney.

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# UNITED STATES PATENT OFFICE.

LORENZ STOEHR, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO McKEE BROTHERS, OF SAME PLACE.

## IMPROVEMENT IN TOOLS FOR FLARING AND CRIMPING LAMP-CHIMNEY TOPS.

Specification forming part of Letters Patent No. **176,449**, dated April 25, 1876; application filed March 20, 1876.

*To all whom it may concern:*

Be it known that I, LORENZ STOEHR, of Pittsburg, county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Apparatus and Method for Flaring and Crimping Lamp Chimneys; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in apparatus and method for flaring and crimping lamp-chimneys; and consists in the rotating holder, operating with relation to a flaring and crimping disk.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Figure 1 is a top view or plan of the apparatus for flaring and crimping lamp-chimneys. Fig. 2 is a side elevation of the same. Fig. 3 is a transverse section of the same at line *y-y*, Fig. 1. Fig. 4 represents it as it comes from the mold. Fig. 5 represents it flared. Fig. 6 represents the finished chimney.

In the drawings, A represents the base of the apparatus; B, the flaring disk; C, the crimping-disk; D, the standard; *e*, shaft, provided with a pinion, *f*, rotated by a driving-wheel, *g*. *h* represents the handle, in which the shaft *e* rotates, similar to that of the ordinary hand-drill, operated by pinion and drawing-wheel.

On the end of the shaft *e* is secured a flanged disk, *i*, for the base of the chimney to rest against. The flanges on the back of the disk are pivoted at 2 to arms *k*, having openings and set-screws for holding gripping-arms *l*. On the front end, and at right angles to the gripping arms *l*, are curved holders *m*, forming segments of a circle. The rear ends of the arms *k* are pivoted to links *n* at 3, which levers are pivoted at 4 to a sliding piece, *o*, which moves on the shaft *e*. Through the sliding piece *o* and a slot, *p*, passes a pin, *s*,

to which is attached a rod, *t*, operated by means of a spring, *w*, arranged in the base of the shaft *e*.

The sliding piece *o*, and links *n*, form a toggle for operating the arms *k*, for the purpose of expanding and contracting the arms *l*, and holders *m*, for the purpose of grasping the chimney and holding its base against the face of the flanged disk *i*, as indicated in Figs. 1 and 2.

The chimney, as represented in Fig. 4, is formed in the usual way, and by the ordinary means. It is then placed in the rotating holder, as represented in Figs. 1 and 2, and the base of the end *x* is placed over the coniformed point of the disk B, with the shaft *e* resting on the standard D.

The operator rotates the shaft-holder and chimney by means of the driving-wheel *g*, pressing the holder and chimney toward the disk until the desired flare is obtained, which flare is represented in Fig. 5. The operator then draws the chimney from the coniformed pointed disk B, and places it over the cylindrical projection 4 of the disk C, and forces the chimney toward the inner face of the disk, which is provided with a series of radial projections, 5; and by pressing the chimney toward the face of the disk C the projections will make indentations upon the edge of the flaring portion of the chimney, causing it to have a series of curvatures, forming a crimped and ornamental edge for the flaring top of the chimney. The chimney is then removed from the holder and manipulated and treated in the usual manner.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention is—

1. The mode described of forming the crimped tops of lamp-chimneys—that is, first rotating the chimney and pressing it against a conical former to distend the mouth, and then against a separate crimping-tool to indent the mouth, as set forth.

2. The shaft *e*, adapted to a bearing on a base, A, combined with appliances for rotating it, with a disk, *i*, for the end of a chim-

ney to bear against, and carrying clamping devices for holding the chimney in contact with the disk, substantially as specified.

3. The combination, with the disk *i* and levers, of gripping-arms *l*, carried by the levers, and adjustable, substantially as set forth.

4. The revolving holder, in combination

with the disks B and C, constructed substantially as herein described, and for the purpose set forth.

LORENZ STOEHR.

Witnesses:

A. M. BACON,

JOS. K. BROWN.