

S. RUSSELL.

Lamp.

No. 129,596.

Patented July 16, 1872.

Fig. 1.

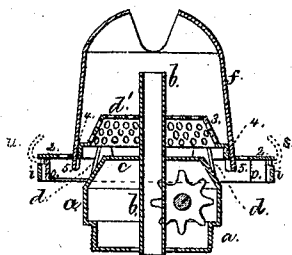
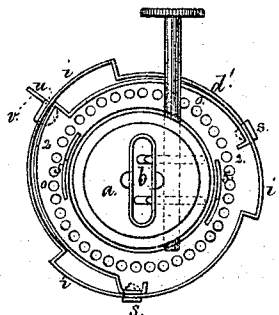


Fig. 2.



Cha<sup>s</sup> H. Smith  
Geo. D. Hawes

Witnesses.

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ATTY.

# UNITED STATES PATENT OFFICE.

STERNE RUSSELL, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE  
SCOVILL MANUFACTURING COMPANY, OF SAME PLACE.

## IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. 129,596, dated July 16, 1872.

*To all whom it may concern:*

Be it known that I, STERNE RUSSELL, of Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Lamps; and the following is declared to be a correct description of the same.

My improvements relate to chimney-fastenings, composed of hooks upon springs that are moved around within a stationary cam-flange, so that the hooks are made to grasp the chimney by the flanges pressing them inward as the fastening is partially revolved. I also make use of an air-distributor of a conical form supported by arms from the body of the burner, and receiving the conical deflector, that is attached by locking-hooks that pass through slots in the air-distributor.

In the drawing, Figure 1 is a vertical section of my improved lamp-burner; and Fig. 2 is an inverted plan, showing the cam-flange and spring chimney-hooks.

The burner-shell *a* receives the wick tube *b* and ratchet-cap *c*, as usual. The arms *d* extend up from the shell *a* to the air-distributor *d'*, which is foraminous, and made with a flat chimney-rest, 2, and cone 3, rising within the deflector *f*, which deflector *f* is guided at its base by a circular ledge, 4. Around the base of the cone 3, and adjacent to the ledge 4, are slots, into which the notched edges of the deflector *f* pass in the form of hooks, 5,

that retain said deflector *f* in place. The edge of the air-distributor *d* is not circular, but it is made with a flange, forming two or more cams, *i i*, and within which the strip of metal *o* is placed. This strip is shaped and bent so as to form two spring-arms, with the chimney-hooks *s s* at the ends, and the chimney-fastening *u* in the center. A projection, *v*, serves to move the springs around within the cam-flange *i*, and the hooks *s s* and *u* project through slots at the junction of the flange *i* and air-distributor *d*; thereby the parts will be sustained in place, but allowed a limited movement, so that the chimney is grasped by the flanges *i* pressing the hooks over the lip or flange at the base of the chimney.

I claim as my invention—

1. The cam-shaped flange *i*, in combination with the spring *o* and hooks *s s* and *u* for holding the chimney, substantially as set forth.

2. The deflector *f* with its attaching-hooks 5, in combination with the air-distributor *d'* having the chimney-rest 2, cone 3, and ledge 4, as and for the purposes set forth.

Signed by me this 5th day of June, A. D. 1872.

STERNE RUSSELL.

Witnesses:

MARK L. SPERRY,  
T. B. MERRIMAN.