

S. RUSSELL.

Lamp.

No. 129,596.

Patented July 16, 1872.

Fig. 1.

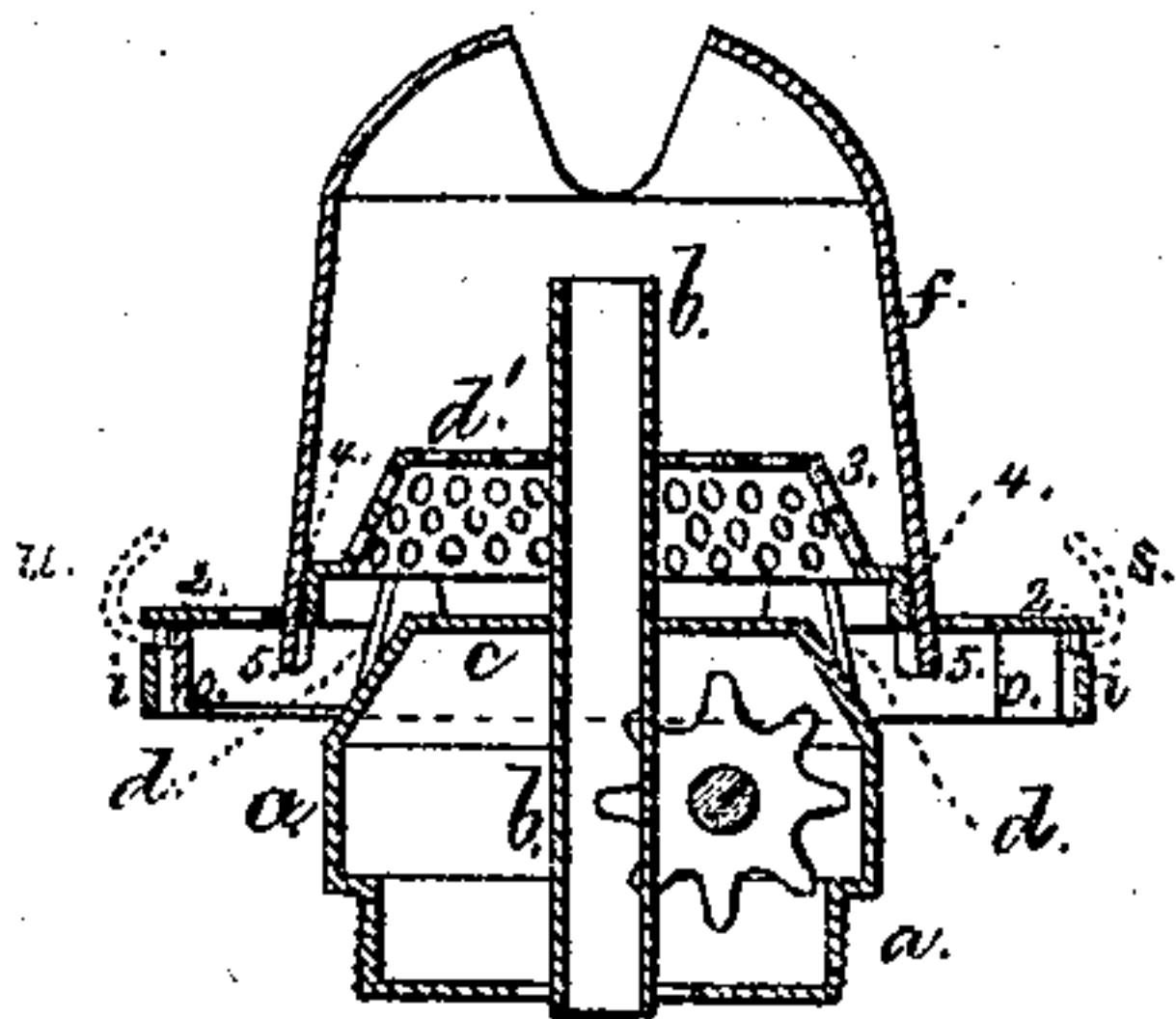
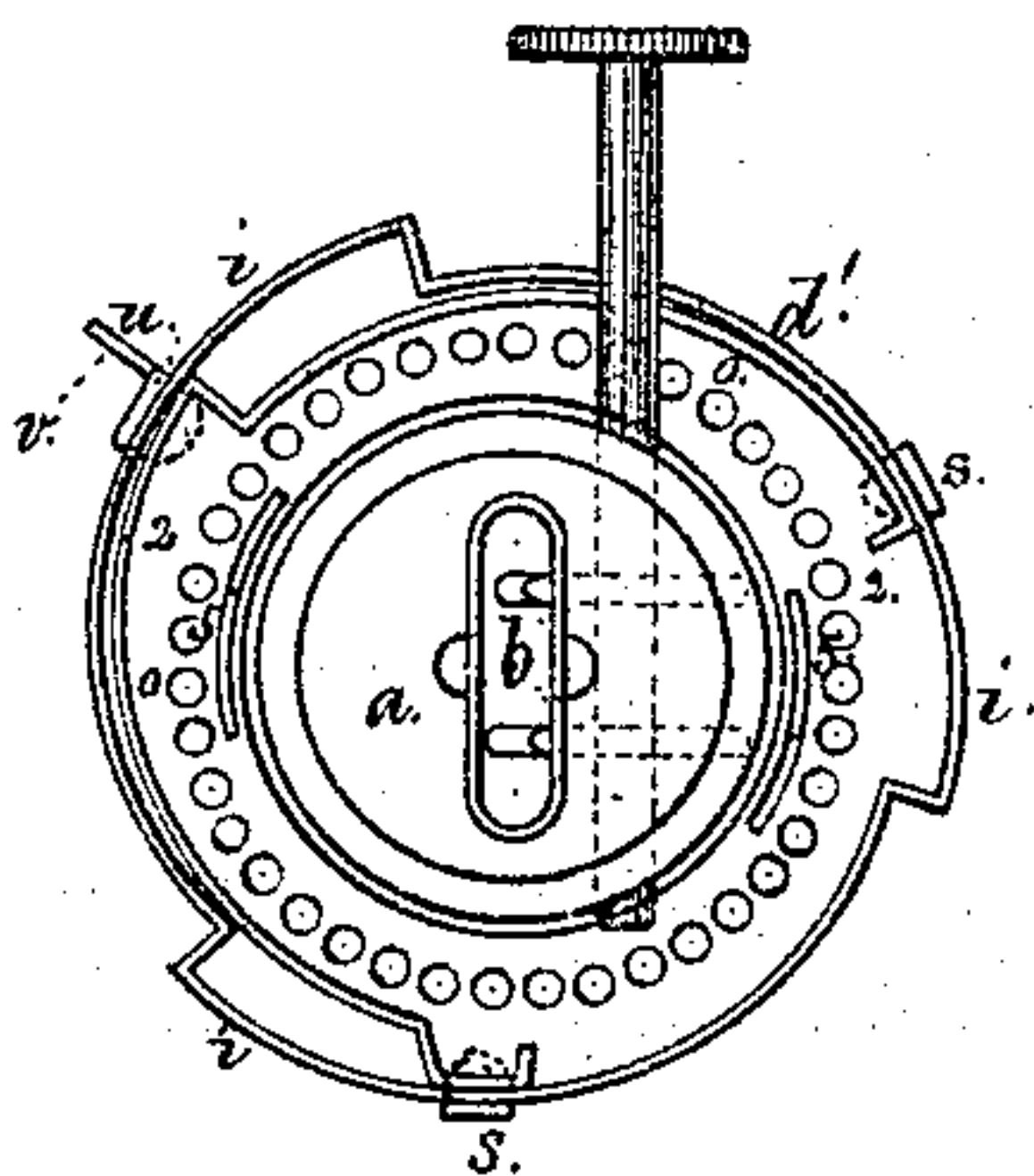


Fig. 2.



Cha^s H. Smith
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Witnesses.

INVENTOR
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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.