

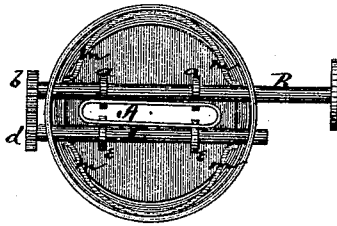
G. BERKSTRESSER.

LAMP BURNER.

No. 103,967.

Patented June 7, 1870.

LAMP.



Witnesses
J. Lehmann
H. L. Ewert

Inventor
G. Berkstresser
per Alexander Mason
Att'y.

UNITED STATES PATENT OFFICE.

GEORGE BERKSTRESSER, OF BEDFORD, PA., ASSIGNOR TO HIMSELF, F. W. IRVINE, JACOB REED, AND R. W. BERKSTRESSER, OF SAME PLACE.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **103,967**, dated June 7, 1870.

To all whom it may concern:

Be it known that I, GEORGE BERKSTRESSER, of Bedford, in the county of Bedford, and in the State of Pennsylvania, have invented certain new and useful Improvements in Lamps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

My invention has for its object the elevation of the wick within an ordinary smooth wick-tube, so that the wick may not be torn, and the same evenly and steadily raised.

To accomplish this I use two shafts, each having two smooth rollers, so as to elevate or carry down the wick by friction. These rollers are revolved by a pinion on the extremity of each shaft, and said pinions are kept in gear and the rollers kept close into wick by two inclosed elliptical springs.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a plan view of the interior of the burner.

A represents the wick-tube, upon one side of which is the usual wick-raising shaft B, provided with two rollers, *a a*. These rollers are, however, not toothed or cogged, as is generally the case, but are smooth on their outer edge or periphery.

On the end of the shaft B is placed a small pinion, *b*, which gears with a similar pinion, *d*, upon the end of another shaft, C, said shaft being placed on the opposite side of the wick-

tube, and running parallel with the shaft B. The shaft C is also provided with two small rollers, *e e*, having a smooth periphery, and placed directly opposite the rollers *a a*, and these four rollers operating—two on each side of the wick—will raise and lower the wick evenly and steady.

When a lamp-burner has been in use for a long time it often happens that the holes through which the wick-raising shaft or shafts pass wear and become larger, consequently throwing the rollers farther away from the wick, making it impossible to raise and lower the same. To prevent this difficulty I place a spring, *m*, on each of the shafts B and C, so arranged as to press said shafts evenly inward toward the wick. This also holds the rollers *a a* and *e e* at all times close up against the wick.

I am aware that the several devices herein shown and described, when taken separately, are of themselves not new.

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

The combination of two smooth rollers on each shaft with the pinions on the end of each shaft, and the elliptical pressing-springs, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of August, 1869.

G. BERKSTRESSER.

Witnesses:

J. M. STOOPS,
EDM. F. BROWN.