

(No Model.)

2 Sheets—Sheet 1.

W. S. BERG.
EXTENSIBLE LAMP SHADE.

No. 427,661.

Patented May 13, 1890.

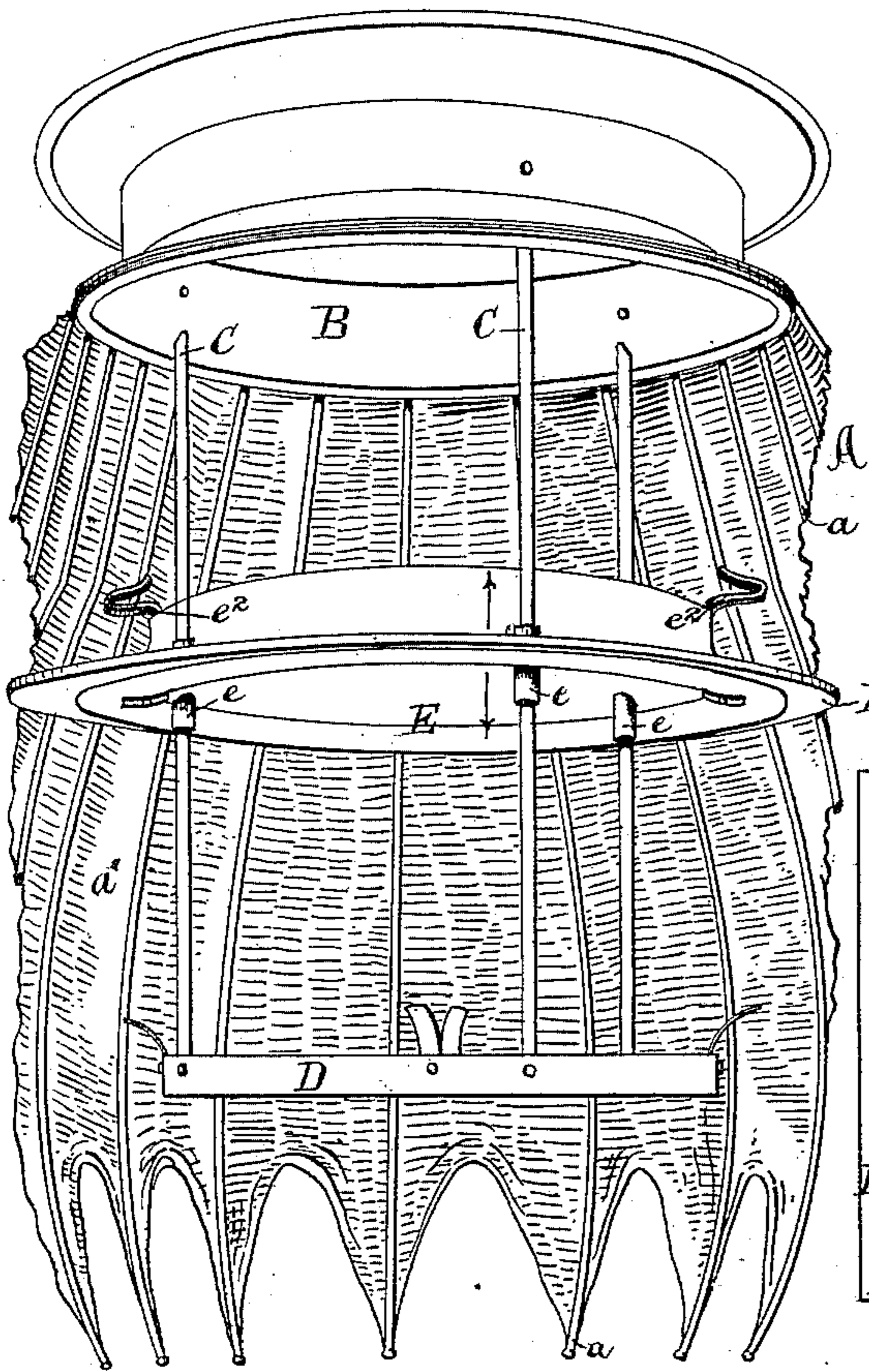


Fig. 1.

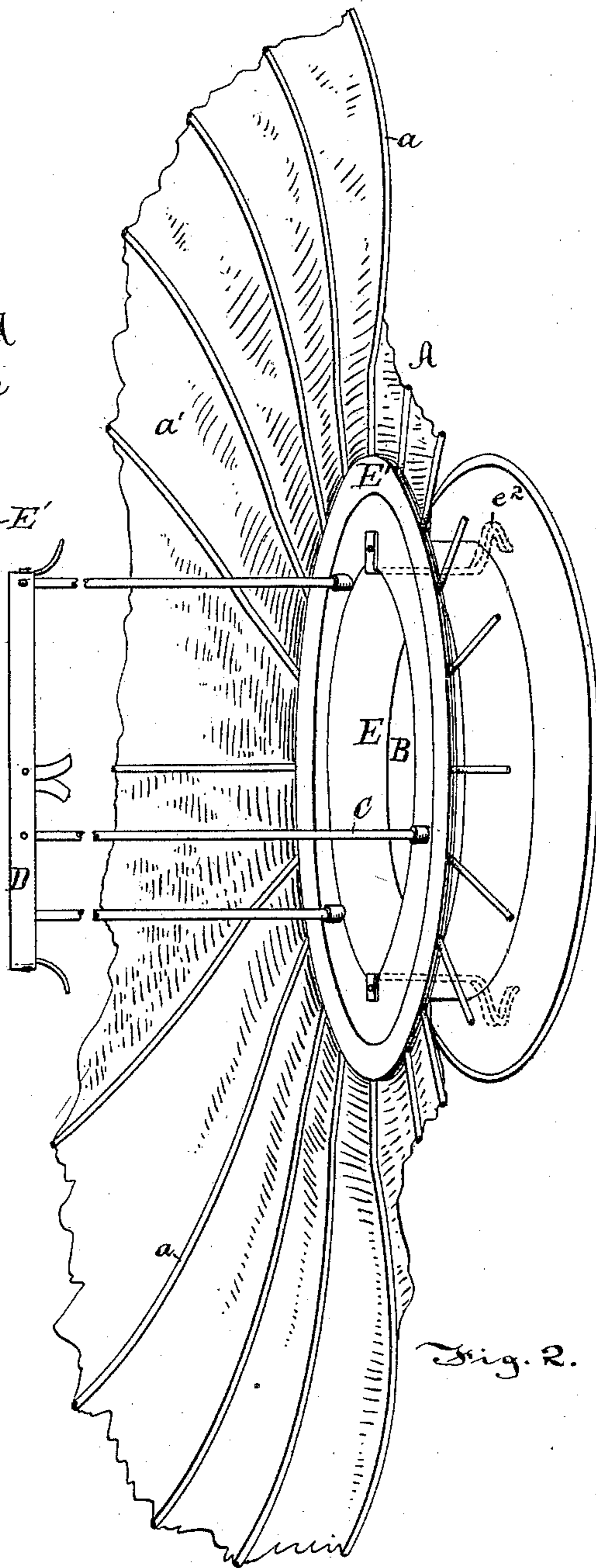


Fig. 2.

Witnesses:
Ed. E. Clement
J. M. Jacobson

Inventor:
Walter S. Berg
by Lewis Abraham

Attorney.

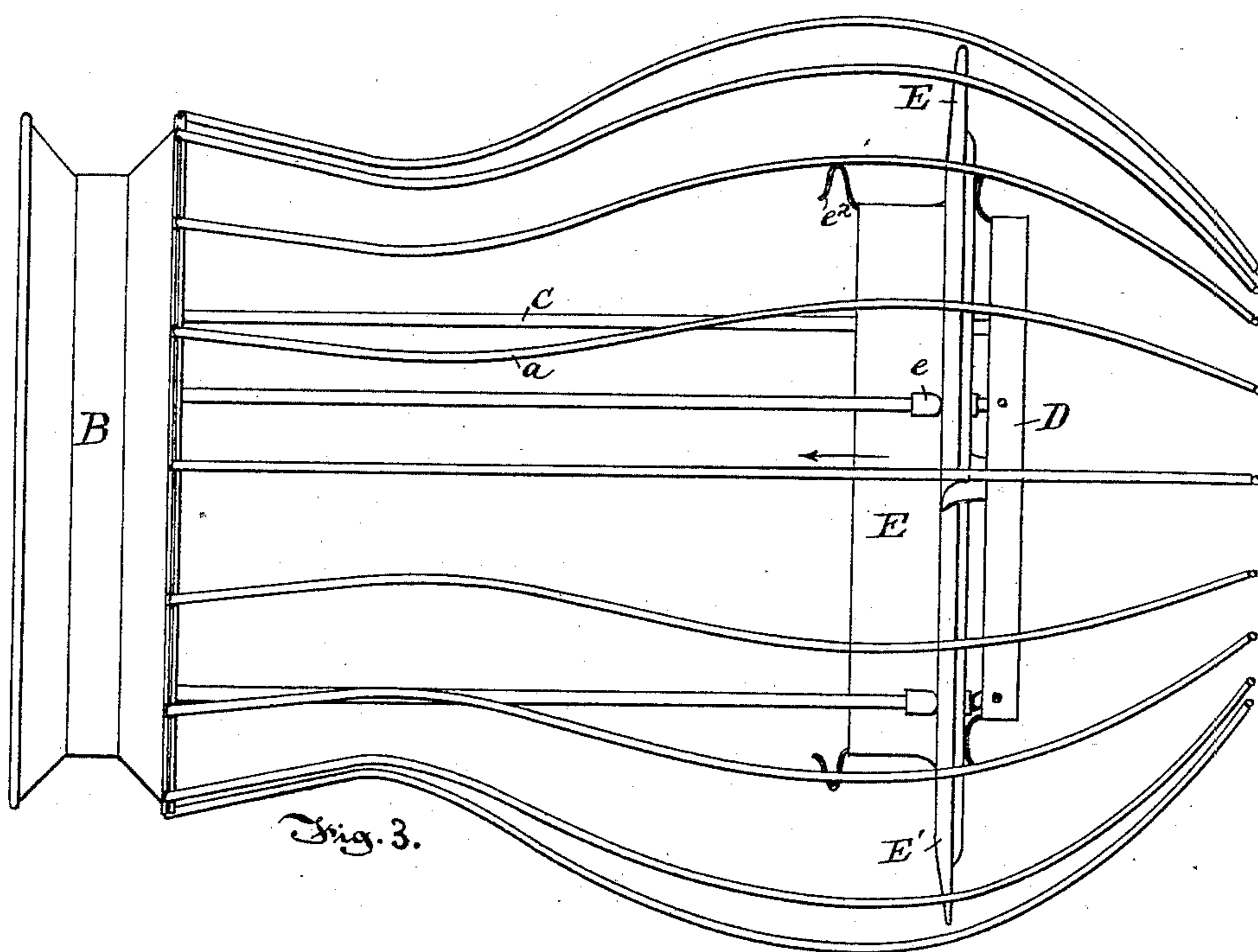
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UNITED STATES PATENT OFFICE.

WALTER S. BERG, OF PHILADELPHIA, PENNSYLVANIA.

EXTENSIBLE LAMP-SHADE.

SPECIFICATION forming part of Letters Patent No. 427,661, dated May 13, 1890.

Application filed November 29, 1889. Serial No. 331,858. (No model.)

To all whom it may concern:

Be it known that I, WALTER S. BERG, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Extensible Lamp-Shades, of which the following is a specification.

My invention relates to extensible lamp-shades, and is an improvement on the devices for which Letters Patent were issued to me bearing date October 15, 1889, and November 19, 1889, numbered, respectively, 412,828 and 415,602.

My improvement consists in uniting and combining the several connections of the stretching devices, so that the operative parts can be moved to unfold and extend the shade and by reverse motion to fold it up compactly without dismembering or removal of any of the elements.

My present improvement is applicable to either form of construction shown in Letters Patent herein referred to.

Referring to the accompanying drawings, wherein like letters of reference point out similar parts on each figure, Figure 1 represents in perspective a lamp-shade, portions of the fabric and ribs being broken away, showing the rib-supporting flanged ring slid down about midway of the supporting-rods. Fig. 2 is a like view showing said flanged ring locked concentrically within the top-notch collar in position for maintaining the ribs fully extended. Fig. 3 is a view, the covering fabric being omitted, of the form shown in Figs. 1 and 2, the flanged ring resting downwardly upon the base-ring, whereby the shade is compactly folded up.

In the drawings, A is the shade; *a*, the ribs; *a'*, covering fabric. Said ribs are pivotally connected to a top-notch collar B.

C represents vertical supporting-rods, the upper ends of which are permanently secured to said collar B, their lower ends being permanently connected to a base-ring D, which ring in practice is adapted to be adjusted upon the ring-plate that forms part of the structure of ordinary lamps and gas-fixtures for reception of the globe, the chimney, or both.

E is a sliding ring, preferably having eyes

or short guide-tubes *e*, through which the rods C are passed, so that it can be freely moved vertically upon said rods. The sliding ring can be ordinarily maintained at any desired elevation by frictional contact of the rods C and tubes *e*; but for securing the ring at given elevations a spring-detent *e'* may be employed and be within the scope of my invention.

By reference to the drawings it will be seen that when the sliding ring E is provided with an outwardly-extending circumferential flange E' and is projected upwardly its band will lie concentrically within the top-notch collar B, and being supplied with intermeshing locking devices *e*² will be secured therein, the ribs *a* will be lifted up, and being supported by said flange E' the whole shade will be distended. When, however, said ring E is moved downwardly onto the base-ring D, the shade will be compactly folded up (see Fig. 6) for storage or packing away. According to the point of elevation to which said sliding ring is brought to rest, it will have frictional contact with the ribs and they will be relatively spread and be maintained at any desired inclination in radial divergence from their connection with the top-notch ring.

From the above description, in connection with the drawings, the nature and practice of my invention will be fully understood by all familiar with analogous devices.

The main features of my improved shade are particularly described in the Letters Patent aforesaid. My present improvement consists in the provision of means whereby the shade can be distended or folded up without separating any of the operative elements, so that there will be no trouble in fitting together disconnected parts and no risk of disadjustment by any portions being bent while the shade is removed or packed away.

Having thus fully described my invention and the manner of its operation, what I claim, and desire to secure by Letters Patent of the United States of America, is—

1. In a distensible lamp-shade, the combination, with the top-notch collar B, the base-ring D, the supporting-rods C, permanently united at their upper ends to the top-notch collar and at their lower ends to the base-ring, and the rings *a*, pivotally connected at

their upper ends to the collar B, of the ring E, mounted and adapted to be adjusted vertically upon said rods, and the circumferential flange E' on said ring in frictional contact with and adapted to fully distend and support the ribs *a* of the shade when the ring E is moved upwardly upon the rods within the top-notch collar B and to allow the compact folding of the ribs when said ring is moved downwardly upon the rods and resting upon the base-ring D, substantially as described.

2. In a distensible lamp-shade, the combination of the top-notch collar B, the base-ring D, the supporting-rods C, permanently united at their upper ends to the collar B and at their lower ends to base-ring D, and the ribs

a, pivotally connected at their upper ends to the collar of the ring E, mounted and adapted to be adjusted vertically upon said rods, said ring being provided with circumferential flange E', in frictional contact with and adapted to distend the ribs *a* when the ring is moved upwardly on the rods and to allow the compact folding of said ribs when the ring is moved downwardly to rest upon the base-ring, the ring E being provided with locking devices *e*² to catch over the upper edge of the top-notch collar, in the manner and for the purpose set forth and described.

WALTER S. BERG.

Witnesses:

CHAS. B. KEEN,
LAURA KOEHNLEIN.