No. 631,059. Patented Aug. 15, 1899.

W. H. WELLS.

LAMP SHADE.

(Application filed Nov. 30, 1898.)

(No Model.) 2 Sheets—Sheet 1.

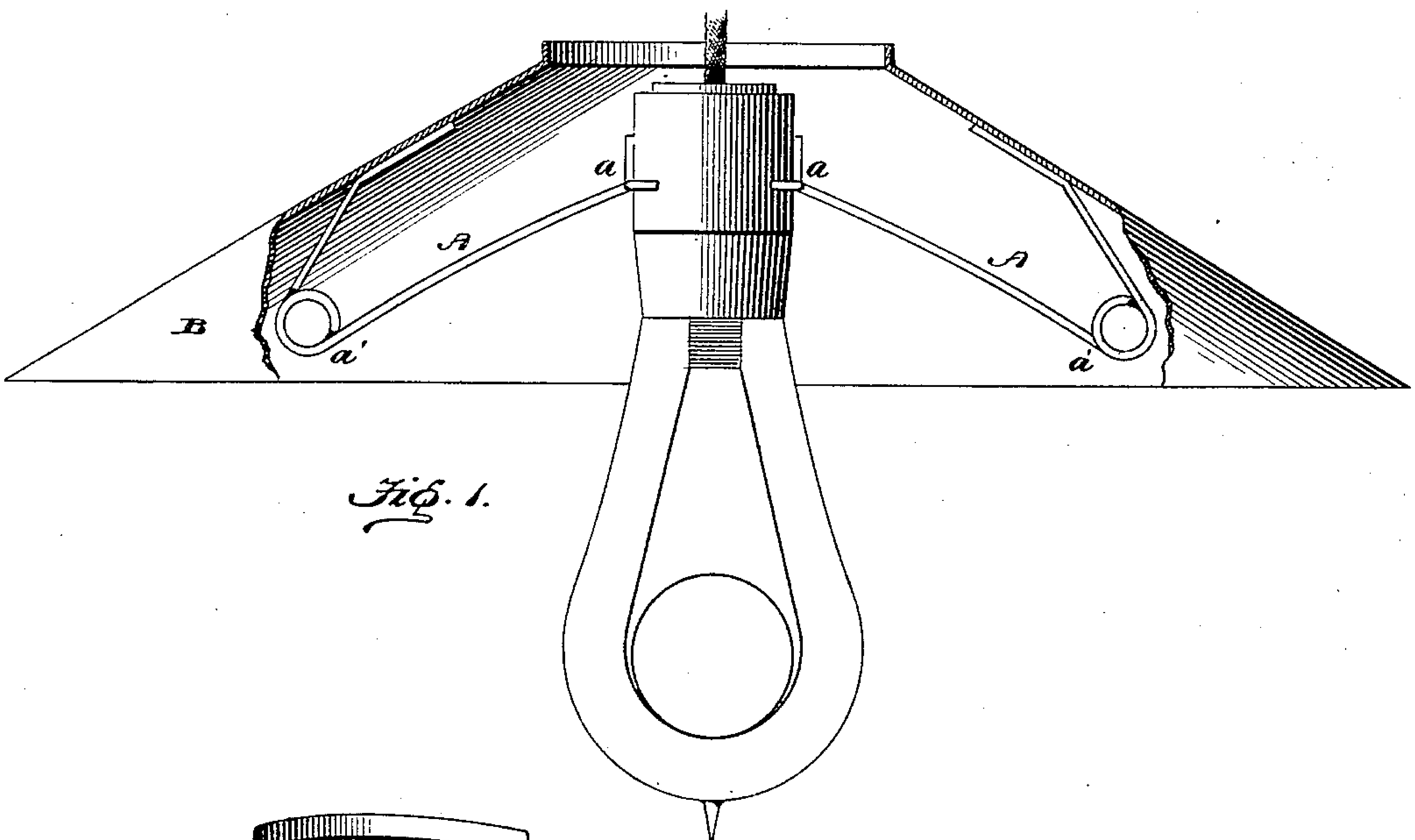

Fig. 1.

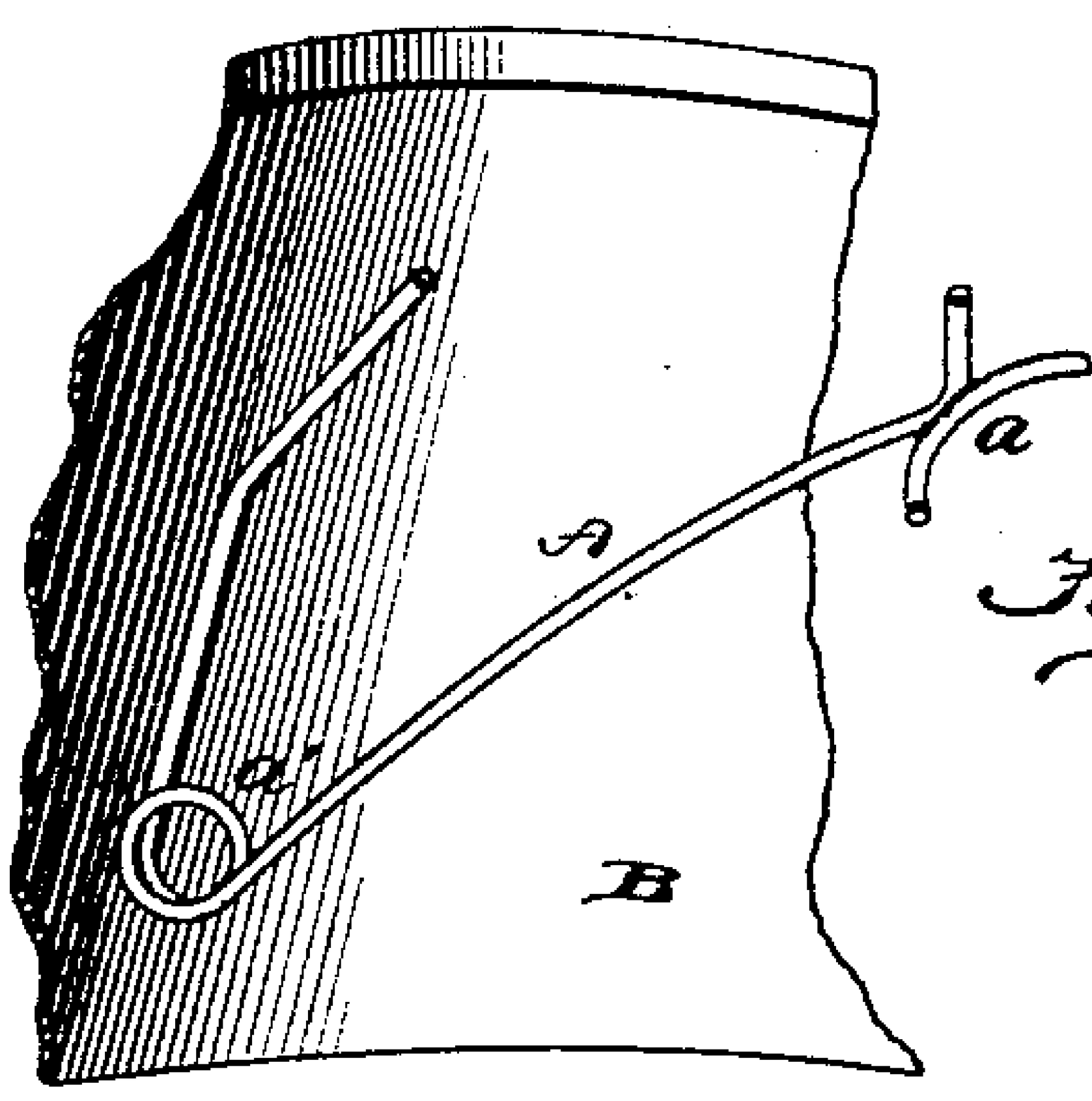

Fig. 2.

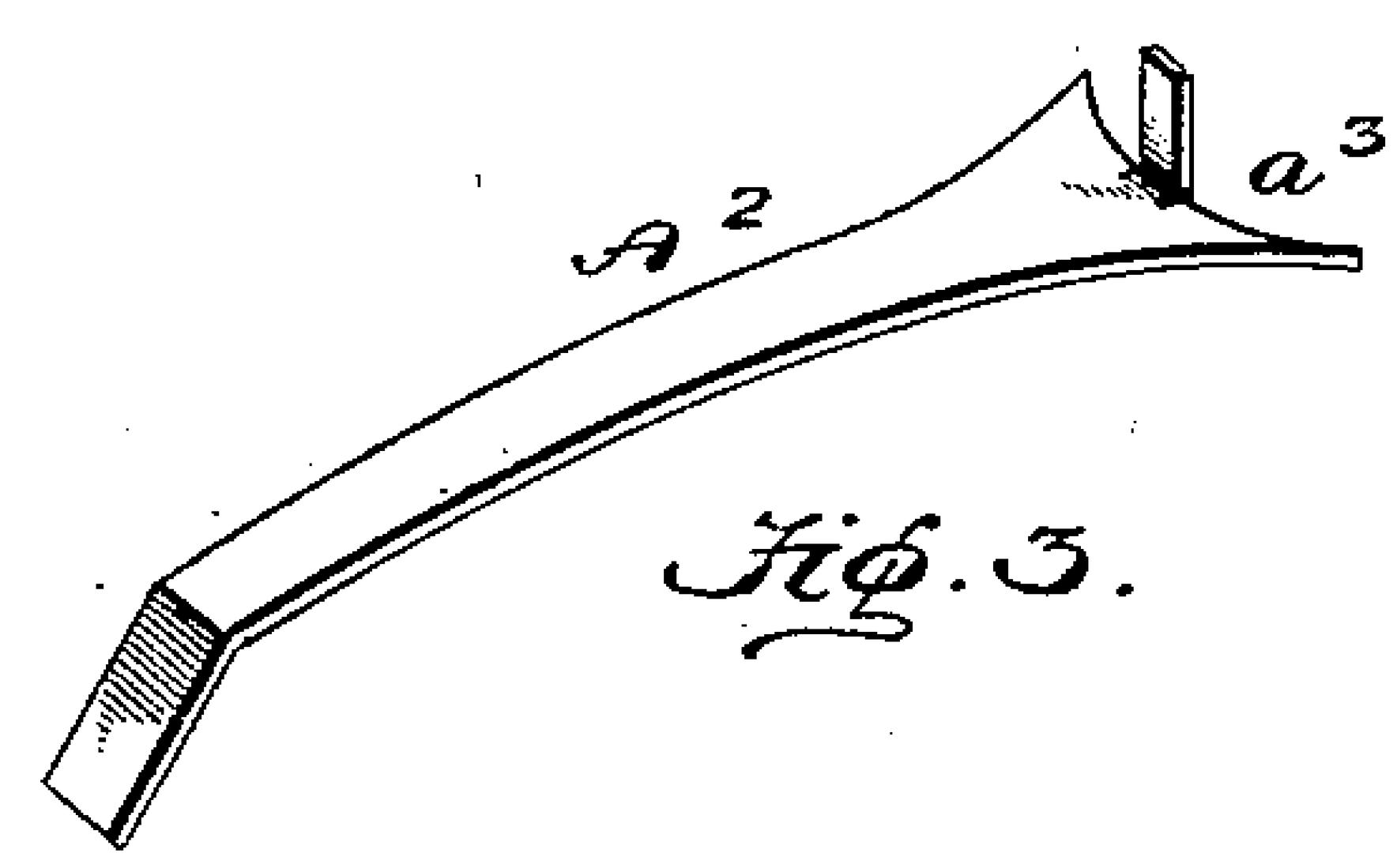

Fig. 3.

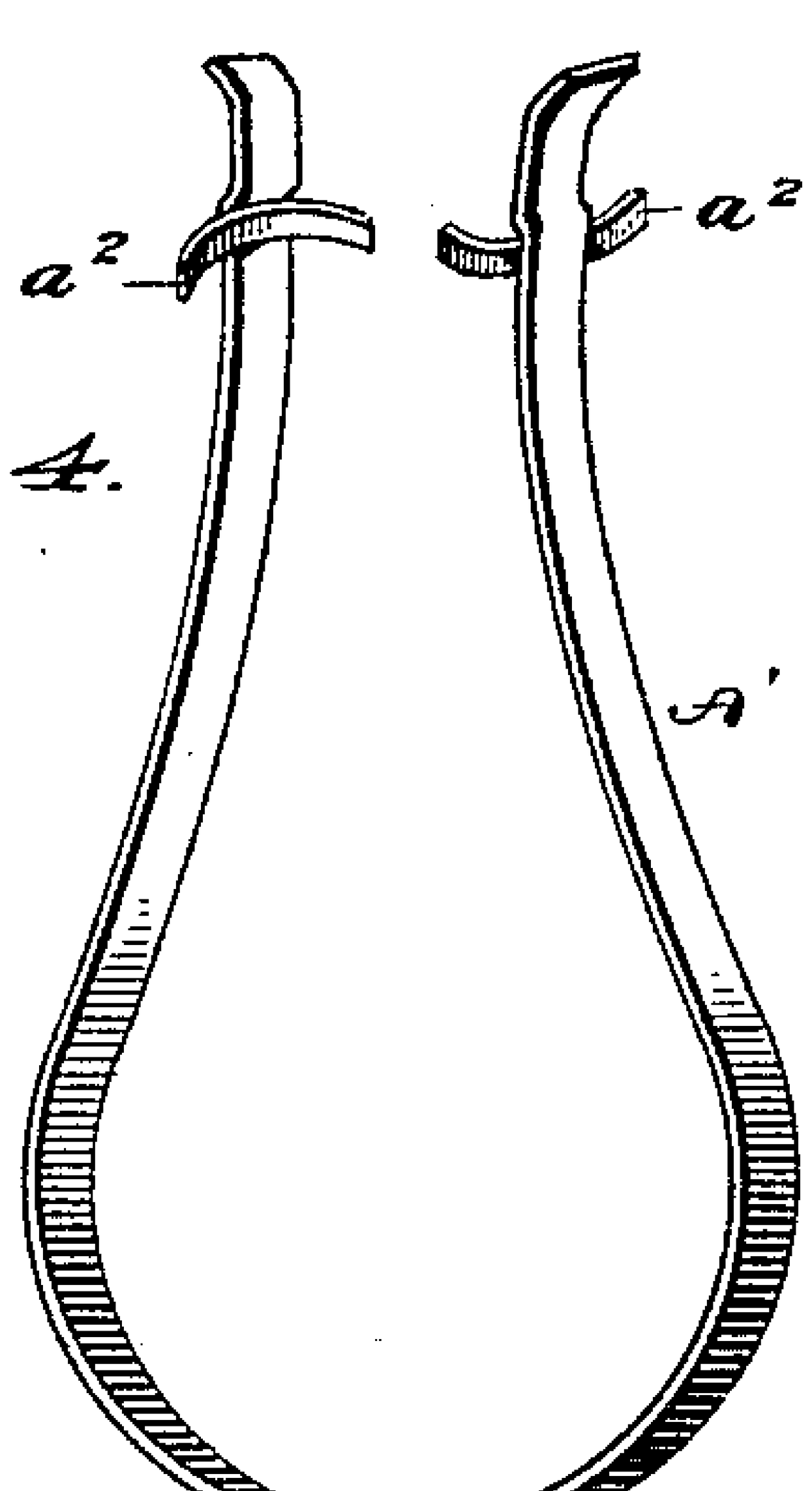

Fig. 4.

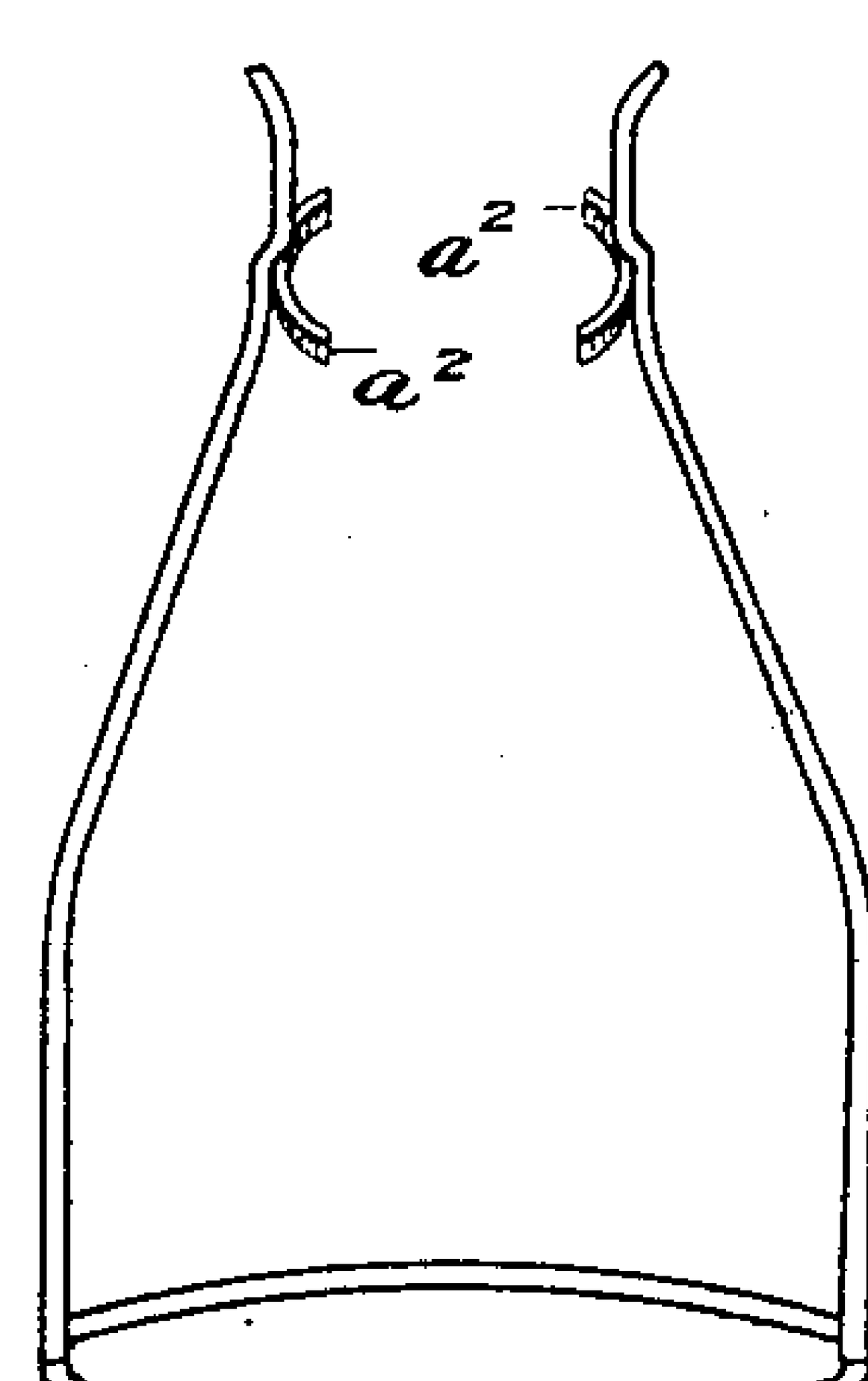

Fig. 5.

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(No Model.) 2 Sheets—Sheet 2.

Fig. 6.

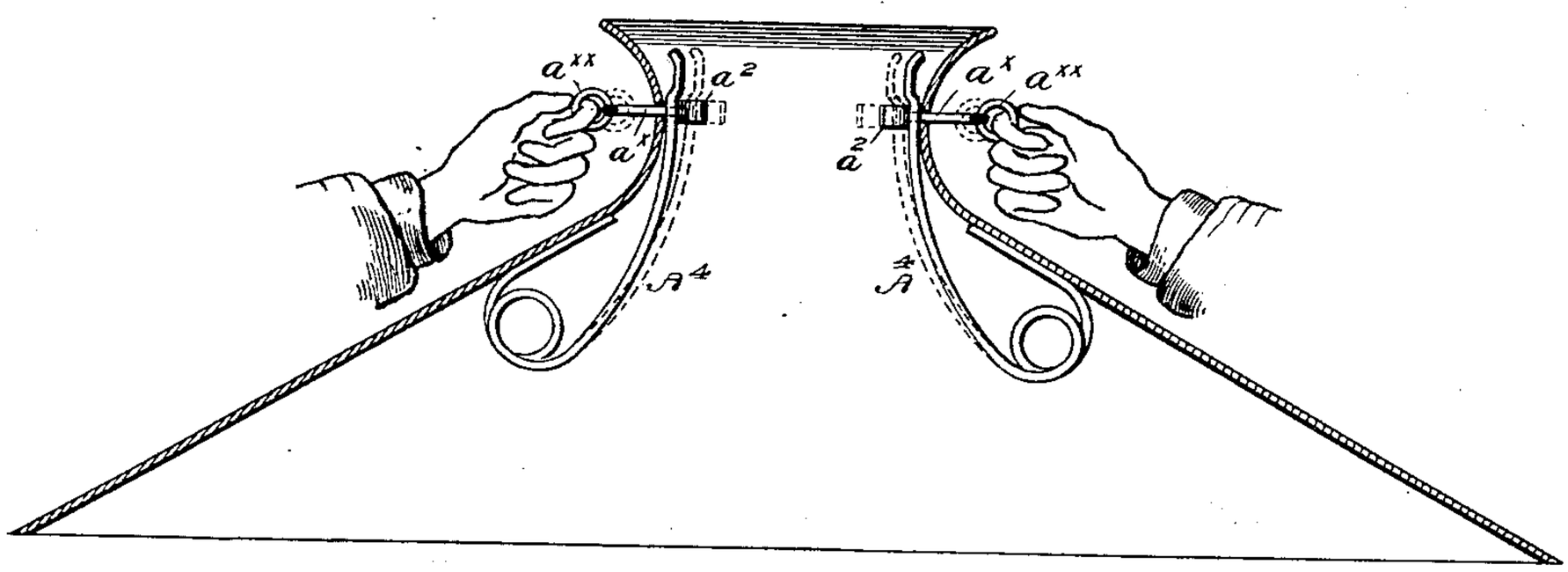
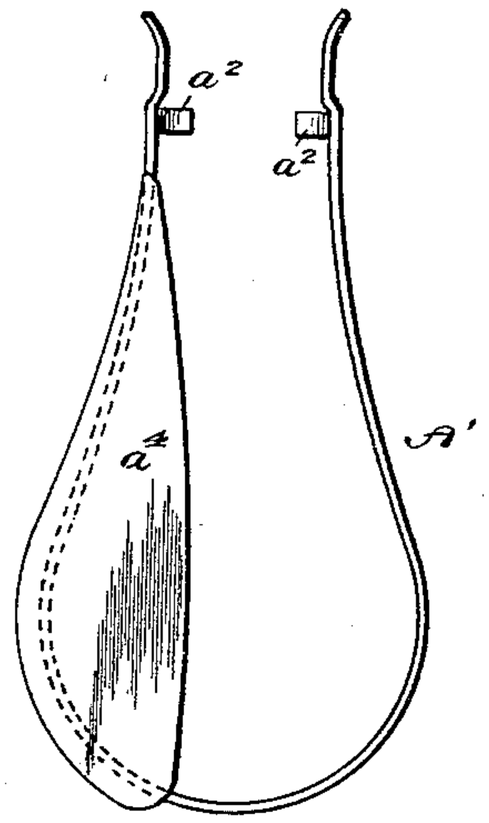


Fig. 7.



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UNITED STATES PATENT OFFICE.

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LAMP-SHADE.

SPECIFICATION forming part of Letters Patent No. 631,059, dated August 15, 1899.

Application filed November 30, 1898. Serial No. 697,886. (No model.)

To all whom it may concern:

Be it known that I, WALLACE H. WELLS, a citizen of the United States, residing at Brasher Falls, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Lamp-Shades; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in lamp-shades which equally serve as a reflector, adapted more especially for incandescent lamps; and it has for its object to provide for the ready and quick attachment of the shade or reflector to the lamp and its equally ready removal therefrom.

The nature of the invention consists of the peculiar construction and arrangement of the parts for carrying out the aforesaid purposes or objects, all substantially as hereinafter more fully disclosed, and specifically pointed out in the claims.

In the accompanying drawings, illustrating the preferred form of carrying out my invention, Figure 1 is a view thereof as applied for use, portions of the shade being broken away. Fig. 2 is a perspective view, parts being also broken away. Figs. 3, 4, 5, 6, and 7 are modifications of my invention.

A A designate the two principal members or parts of my invention, which constitute a clasp, each produced, preferably, of a stiff springy wire having the outline, it may be, disclosed in the drawings. These members or parts A are secured at their outer ends to opposite points upon the inner side of the shade proper or deflector B, near the upper contracted end thereof, and extended downward and outward a short distance and then carried inward and curved or bent slightly upward, the extreme inner opposed ends thereof each being provided with a substantially inverted-T-shaped bearing or half-clamp a to embrace or clasp the circular or cylindric neck portion of the lamp. The T-shaped half-clamps a provide, as is obvious, an extended bearing therefor upon the lamp, as well as brace these ends of the members A of the clasp. The horizontal or cross portions of the T-shaped half clamps or bearings a are arcuate or segmental to conform to the cylindric outline or contour of said neck portion of the lamp, and said members or parts A are preferably coiled at their angles into springs a' to possess them of the requisite spring action to suitably clasp or clamp them upon the lamp.

Instead of the aforesaid construction the members or parts may be produced as disclosed in Fig. 3, as A^2, wherein they may have their inward-extending portions or arms produced with flared or widened inner ends a^3, adapted to conform to and embrace the cylindric neck portions of the lamp, as shown.

In the modification as disclosed in Figs. 4 and 7 the clasp members are produced in a continuous piece A', adapted to conform to and compass or clasp the globe or bulb of the lamp and provided with arcuate or segmental half-clamps a^2. In Fig. 7 is shown a metal shade a^4, attached to one side of said piece A'.

In Fig. 5 is disclosed a frame A^3, comprising opposite lateral pieces or arms, connecting at their lower ends with a horizontal ring or circular piece, in practice encircling the globe or bulb—say about at its maximum diameter or about two-thirds way down—and which is designed to be covered by, say, a fancy paper shade, partially obscuring the direct rays of the light.

In Fig. 6 are disclosed clasp members A^4, substantially as shown in Figs. 1 and 2, provided with arcuate or segmental half clamps or clasps proper, a^2, as shown in Figs. 4, 5, and 7. In this figure are also shown rods $a^\times$, provided with loosely-attached rings $a^{\times\times}$, which rods are fixed to the clasp members to permit of the convenient or ready release of said clasp members from the lamp in removing the shade or reflector, which rods are equally applicable to the forms of my invention as disclosed in Figs. 1, 2, and 3.

It will be observed that in all of the forms of my invention as above disclosed the globe-engaging end portions of the clasp or clamp are provided with bearings arranged in a horizontal plane, while in several of said forms said globe-engaging end portions are provided additionally with bearings arranged in a vertical plane.

Latitude will be allowed herein as to the details of the construction and arrangement

of the parts, as the same may be varied without departing from the spirit or sacrificing the advantages of my invention and the same yet remain intact and be protected.

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

1. In a lamp shade or reflector, the clasp comprising the opposed members or parts having their globe-engaging end portions provided with opposite arcuate bearings arranged in a horizontal plane, substantially as set forth.

2. The combination of a clasp comprising two opposed spring members having a passage between the ends thereof for the reception of a lamp, and arcuate bearings at the inner ends of the clasps, substantially as described.

3. The lamp shade or reflector, having the clasp comprising two opposed members or parts having their globe-engaging end portions provided with opposite arcuate bearings arranged in a horizontal plane, said members or parts also provided with springs intermediately of their ends, substantially as set forth.

4. The lamp shade or reflector, having the clasp comprising two opposed members or parts having globe-engaging end portions provided with opposite arcuate bearings arranged in a horizontal plane, and the manipulating-rod connected to said clasp and adapted to be readily actuated by hand substantially as set forth.

5. The lamp shade or reflector, having the clasp comprising two opposed members or parts having globe-engaging end portions provided with opposite bearings arranged in a horizontal plane, said members or parts provided with coiled springs intermediate their ends, and a manipulating-rod connected to said clasp and having a loosely-attached ring, substantially as specified.

6. In a shade or reflector of the character described, the clasp for the globe comprising the spring-actuated members having the opposite arcuate bearings arranged in alinement with the application of the thrust of said spring-actuated members, substantially as set forth.

7. In a shade or reflector of the character described, the clasp for the globe comprising the spring-actuated members having opposite horizontal arcuate bearings and, in addition, opposite vertical bearings, substantially as specified.

8. In a shade or reflector of the character described, the clasp for the globe comprising the spring-actuated members having the opposite horizontal arcuate bearings and vertical bearings, said horizontal bearings arranged in alinement with the application of the thrust of said spring-actuated members, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WALLACE H. WELLS.

Witnesses:
ETHAN A. NEVIN,
BENJAMIN A. BABCOCK.