(No Model.)

T. B. ATTERBURY.

INCANDESCENT ELECTRIC LIGHT BULB.

No. 427,951. Patented May 13, 1890.

Fig. 1.

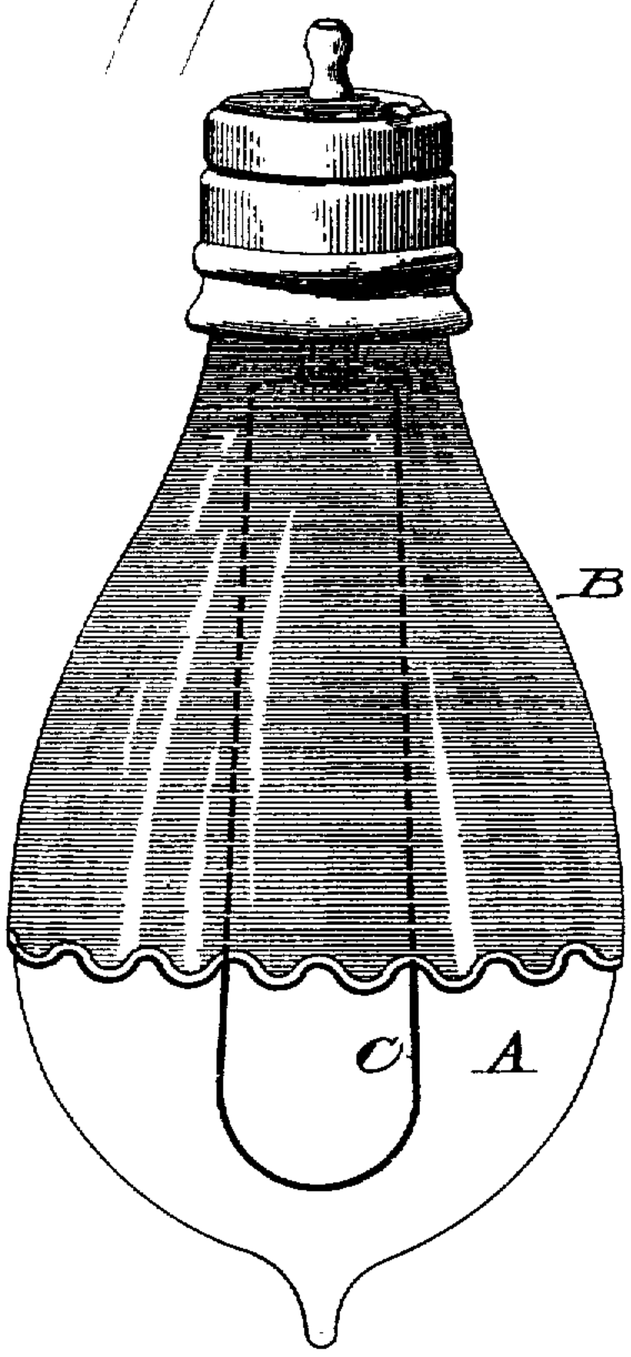
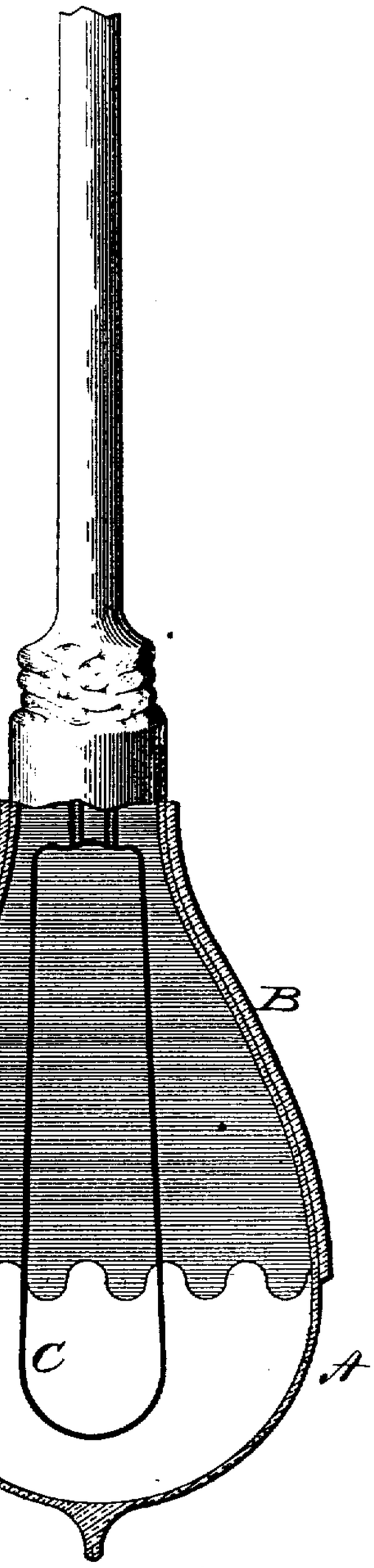


Fig. 2.



WITNESSES
H. L. Ourand
H. M. Sterling

INVENTOR
T. B. Atterbury
By
W. Fairbanks
Attorney

UNITED STATES PATENT OFFICE.

THOMAS B. ATTERBURY, OF PITTSBURG, PENNSYLVANIA.

INCANDESCENT-ELECTRIC-LIGHT BULB.

SPECIFICATION forming part of Letters Patent No. 427,951, dated May 13, 1890.

Application filed October 23, 1889. Serial No. 327,875. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. ATTERBURY, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Incandescent-Electric-Light Bulbs; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in incandescent bulbs for electric lights.

The object of my invention is to provide an incandescent-electric-light bulb having on its upper portion an opal or other colored glass shade, which will not only serve to modify the glaring effect of the incandescent carbon, but also serve as a reflector to direct or concentrate the rays of light in a certain direction.

Referring to the drawings, Figure 1 is a side view of my improved electric-light bulb. Fig. 2 is a sectional view of the bulb with the carbon therein, the bulb being attached to the punty or blow-pipe.

In an application filed of even date herewith, Serial No. 327,876, I have described and claimed the method by which the shade or colored portion of the bulb is made a part of or integral with the clear-glass bulb, and it is thought that a further description of the method of producing the bulb need not be given in this connection.

A indicates the main body of the bulb, which is made of clear or transparent glass and of any desired shape.

B indicates the shade portion, which is made of opal or other colored glass, as occasion or fancy may dictate. The shade B may be made with its external surface in any ornamental design, and is made a part of the bulb by fusing the same thereon during the process of manufacture, so that the shade part B is integral with the main or body portion A, so that it is not possible to detach the shade from the main body.

The shade B, as has already been stated, serves not only to modify the glaring effect of the incandescent carbon, but also serves as a reflector to throw the rays of light forward toward the outer end of the bulb or through the transparent portion of the globe.

The carbon C is inserted in the bulb during the process of manufacture, or may be inserted after the bulb is formed by any of the well-known processes now in use for that purpose.

What I claim, and desire to secure by Letters Patent, is—

A bulb for incandescent electric lights, the main body of which is made of transparent glass and a shade of different and colored glass surrounding the upper portion thereof, but integral therewith, as set forth.

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

THOMAS B. ATTERBURY.

Witnesses:
H. S. SWEETZER,
JNO. C. KOHNE.