

(No Model.)

G. W. WILSON.
INCANDESCENT ELECTRIC LAMP.

No. 414,742.

Patented Nov. 12, 1889.

Fig. 1.

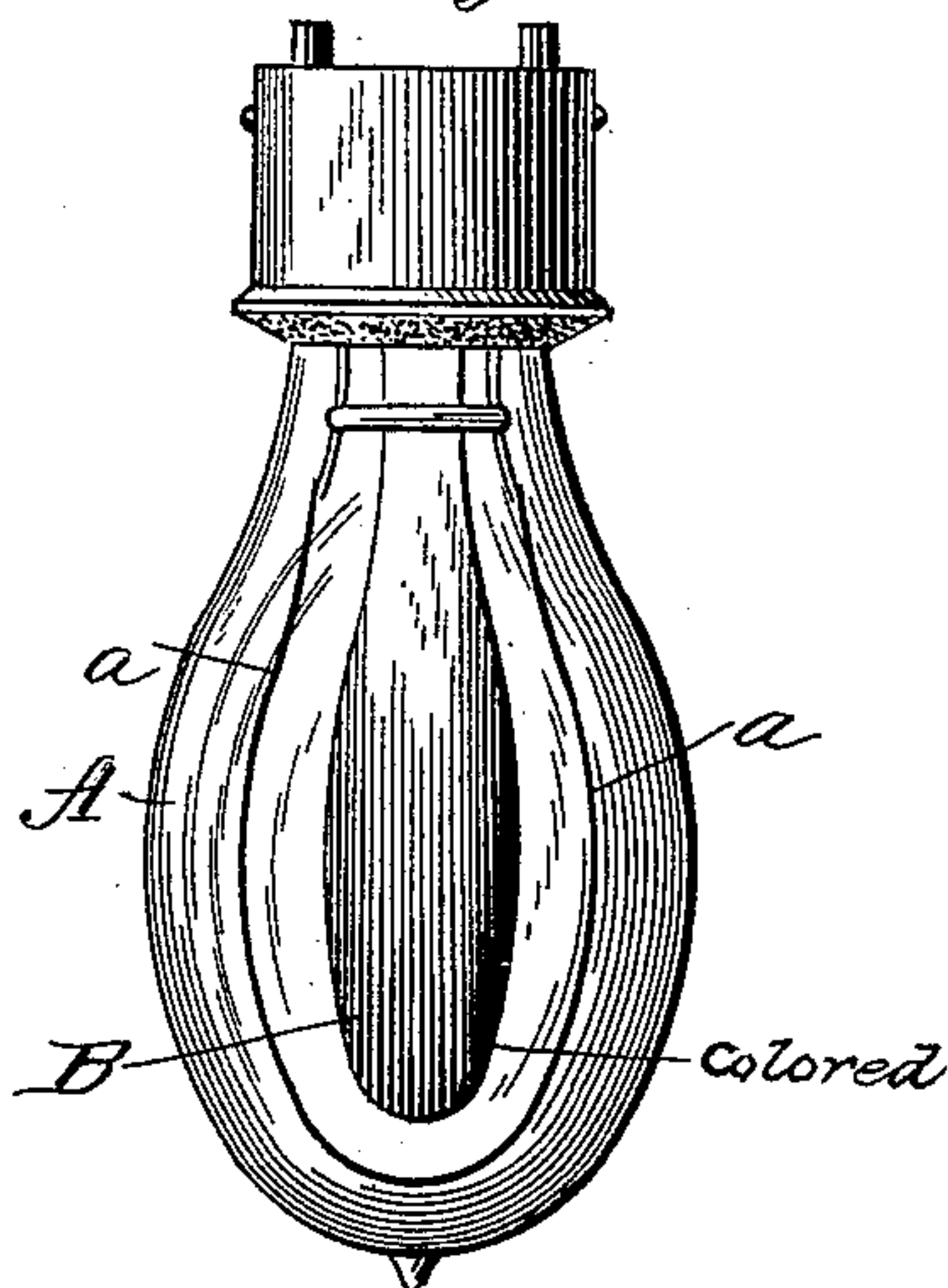
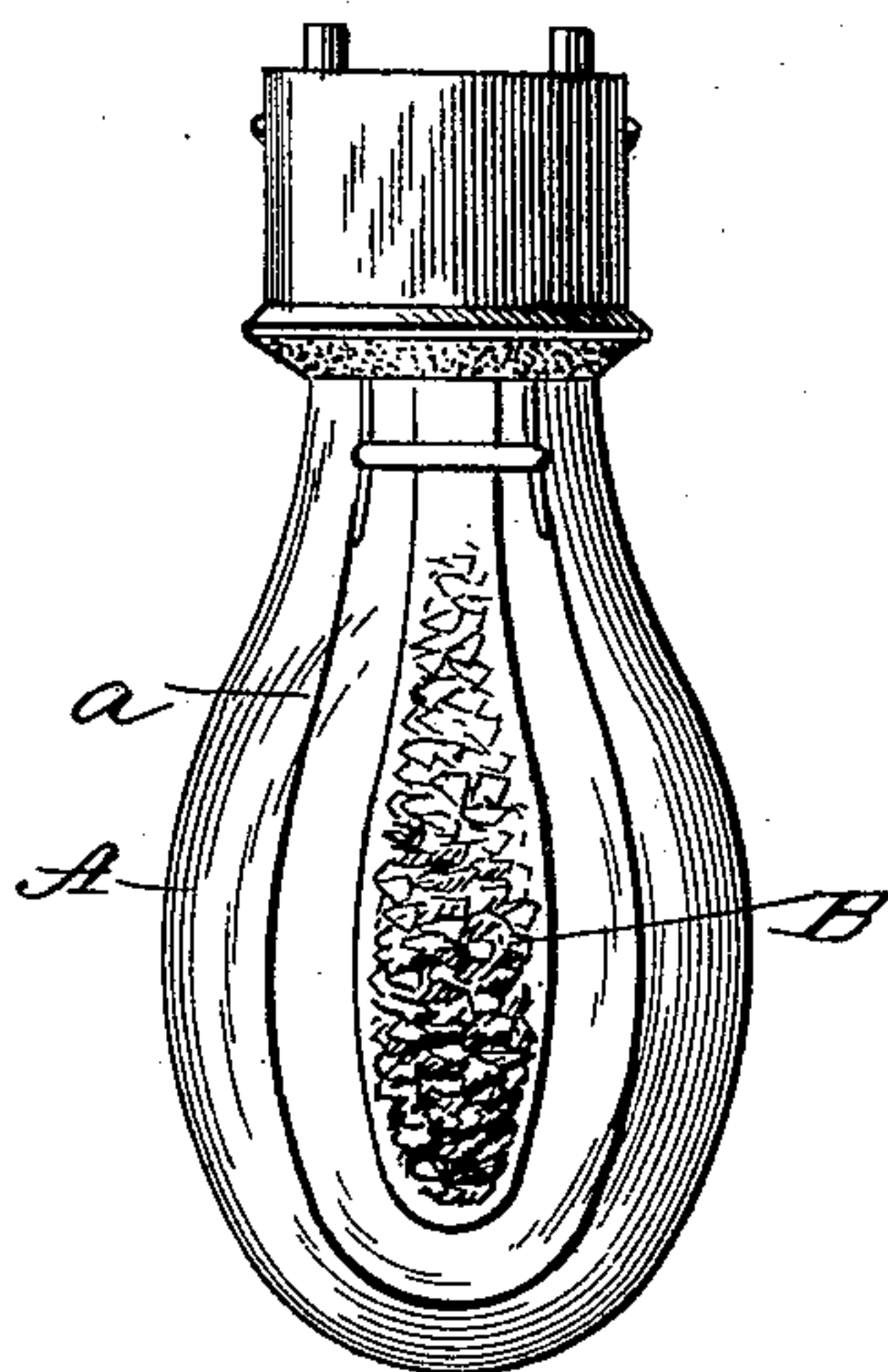


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE WARREN WILSON, OF BOSTON, MASSACHUSETTS.

INCANDESCENT ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 414,742, dated November 12, 1889.

Application filed January 25, 1889. Serial No. 297,573. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WARREN WILSON, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Incandescent Electric Lamps; and I do hereby declare that the following is a full, clear, and exact description of the same.

My present invention is an improvement in incandescent electric lamps of that class represented in an application filed by me in the United States Patent Office on the 24th of January, 1889, Serial No. 297,356, in which application the lamp is shown with a tubular reflector interposed between the limbs of the lamp-filament.

Its object is to give a distinctive character to the light or to produce a more marked effect without diminishing the amount of light emitted, and I produce this result by the use of a transparent outer globe combined with a reflecting colored surface located between the limbs of the filament, so that while this reflecting-surface gives the desired colored effect to the light the transparent globe permits the full amount of light to shine forth without interruption.

I am aware that it has been suggested to produce a colored effect by coloring the globe of an incandescent lamp; but in this case, while the desired effect is produced, the amount of light emitted is greatly diminished by reason of the more or less opaque character given to the glass by coloring it.

My invention consists, therefore, of an incandescent lamp provided with a transparent globe and a colored or tinged reflector within the globe located between the limbs of the filament.

It consists, further, of a transparent globe and a tubular reflector between the limbs of the filament, the said tubular reflector being filled with crystals adapted to give a variegated or discolored light.

In the accompanying drawings, Figure 1 shows a side elevation of the invention. Fig. 2 is a similar view of a reflector having crystals.

In the drawings, A represents the globe of the lamp, and *a a* the filament, and B the

reflector. This reflector is in practice made of tubular glass and has a neck which is fixed in the neck of the globe of the lamp, and it preferably supports the filament, as illustrated in the drawings. The filament occupies a part of the enlarged space within the globe on each side of the reflector. I fill the tubular reflector with crystals adapted to give a variegated or discolored light. For this purpose the crystals may be those of iodide of lead, or any other crystals may be used which will give the same effect. While the better effect is produced by the use of the crystal filling inside of the reflector, I may obtain a good effect by making the body of the reflector itself of colored glass, the glass being tinged or varied from the pure transparent end of the glass of the globe itself.

I do not limit myself to the amount of variation of color or the kind of color.

I make no claim in this application for a reflector interposed between the limbs of the filament, as this subject-matter is broadly claimed in another application filed March 7, 1889, Serial No. 302,240, the present invention being limited to the transparent outer globe and the reflector within the globe colored or filled with crystals to produce a colored or variegated effect without in any way diminishing the illuminating capacity of the lamp.

I claim as my invention—

1. In an incandescent electric lamp having a transparent globe, a non-conducting reflector supported between the limbs of the filament of the lamp, said reflector being colored or tinged, substantially as described.

2. In combination with an incandescent electric lamp having transparent globe, a tubular reflector arranged between the limbs of the filament and having a filling of crystals, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE WARREN WILSON.

Witnesses:

JOHN W. PARTRIDGE,
RUSSELL C. ELLIOTT.