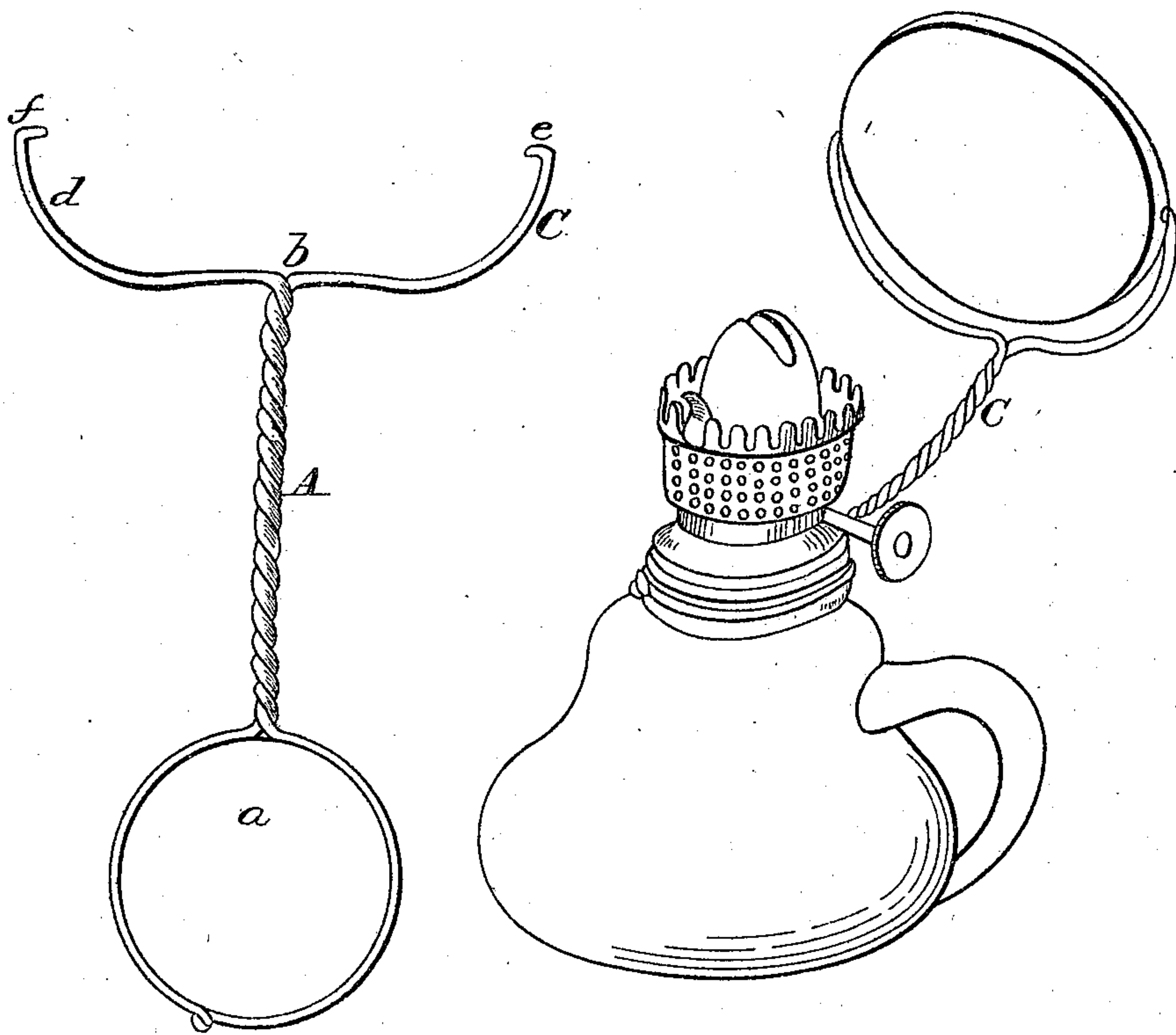
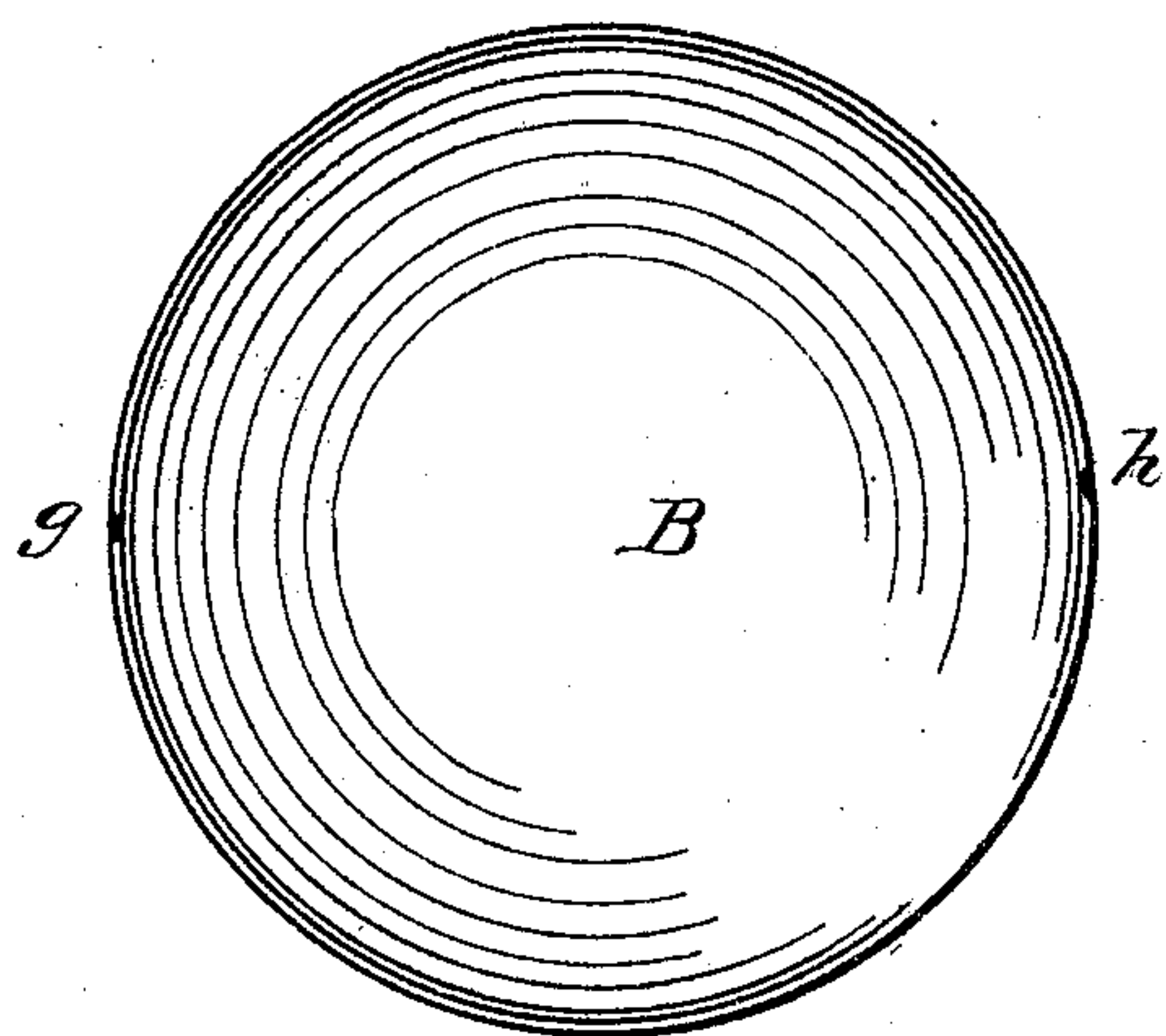


G. F. J. COLBURN.
APPLYING REFLECTORS TO LAMPS.

No. 36,339.

Patented Sept. 2, 1862.



Witnesses.

Enos Ruyter
W. H. H. Colburn.

Inventor.

George F. J. Colburns.

UNITED STATES PATENT OFFICE.

GEORGE F. J. COLBURN, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN APPLYING REFLECTORS TO LAMPS.

Specification forming part of Letters Patent No. 36,339, dated September 2, 1862.

To all whom it may concern:

Be it known that I, GEORGE F. J. COLBURN, of the city of Newark, county of Essex, State of New Jersey, have invented a new and Improved Mode of Attaching Reflectors to Lamps; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

The nature of my invention consists in suspending near the flame of a lamp (in such a manner that it can be turned at a desired angle) a section of metal or other substance suitable for the purpose, polished or burnished on one side, so as to act as a reflector and a shield to the eyes when required to protect them from the light.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the frame A, for holding the reflector, of wire or other metal of the dimensions suitable for the purpose and of such a form that the end to be attached to the lamp shall constitute or be attached to a ring, as shown by letter A, for the purpose of readily being fastened by slipping over and fitting the burner or metal socket holding the burner or other portion of the lamp to which it may be desirable to affix it. The body of the frame is bent at such an angle as to bring the reflector in such position to the flame of the lamp as to operate in the manner desired. The other end of this frame is formed into a half-circle, as shown by letter b, having two arms, c d, the ends of which are bent at right angles e f, for insertion in corresponding holes in the sides

of the reflector, allowing it to swing as on a pivot.

I make the reflector letter B of a section of thin metal or other substance suitable for the purpose, of such dimensions and form that when suspended between the arms c d of the frame and placed in position opposite the flame of the lamp it can be made to act as a reflector and shade to protect the eyes from the light when the unpolished surface is turned toward them. g h show the holes in the sides of the reflector to receive the ends of the frame e f, which, when inserted, will allow it to be turned at the required angle.

Letter C represents the frame and reflector, united by placing the ends of the frame e f in the holes g h, and attached to the lamp ready for use. This combination will prove of great benefit to those using lamps when applied and used in the manner set forth.

I am aware that stationary reflectors have been used supported by various devices, not attached directly to the lamp itself, for the purpose of increasing the quantity of light, and that a patent has been granted for the combination of a reflector and metal cap attached to a lamp-chimney. I therefore disclaim such arrangements.

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

The mode herein described of applying reflectors to lamps, for the purpose specified.

GEORGE F. J. COLBURN.

Witnesses:

ROBT. I. BEACH,
J. H. BAGLAN.