

(No Model.)

G. H. BLISS.  
REFLECTOR AND SHADE FOR LAMPS.

No. 529,105.

Patented Nov. 13, 1894.

FIG. 1.

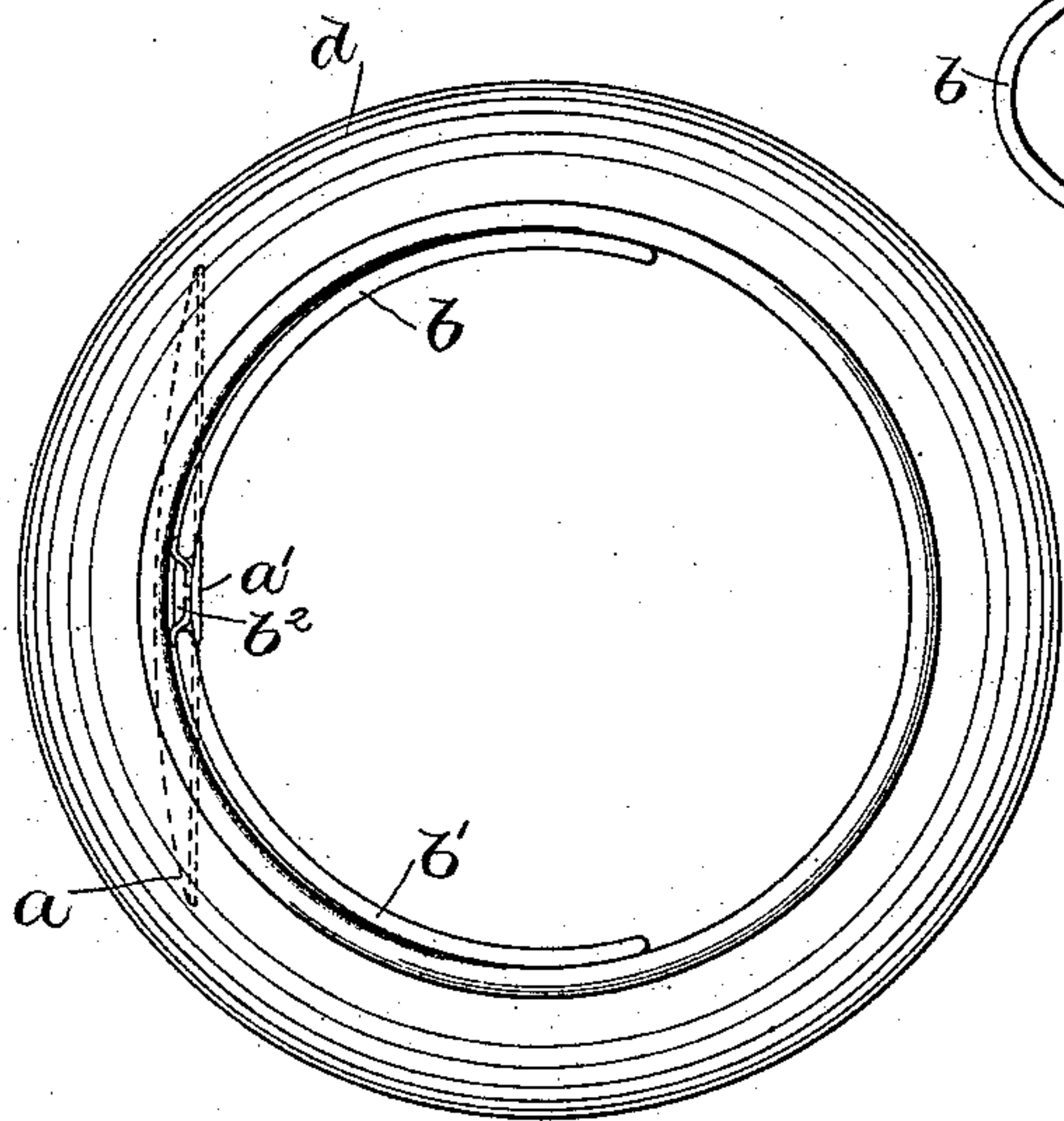
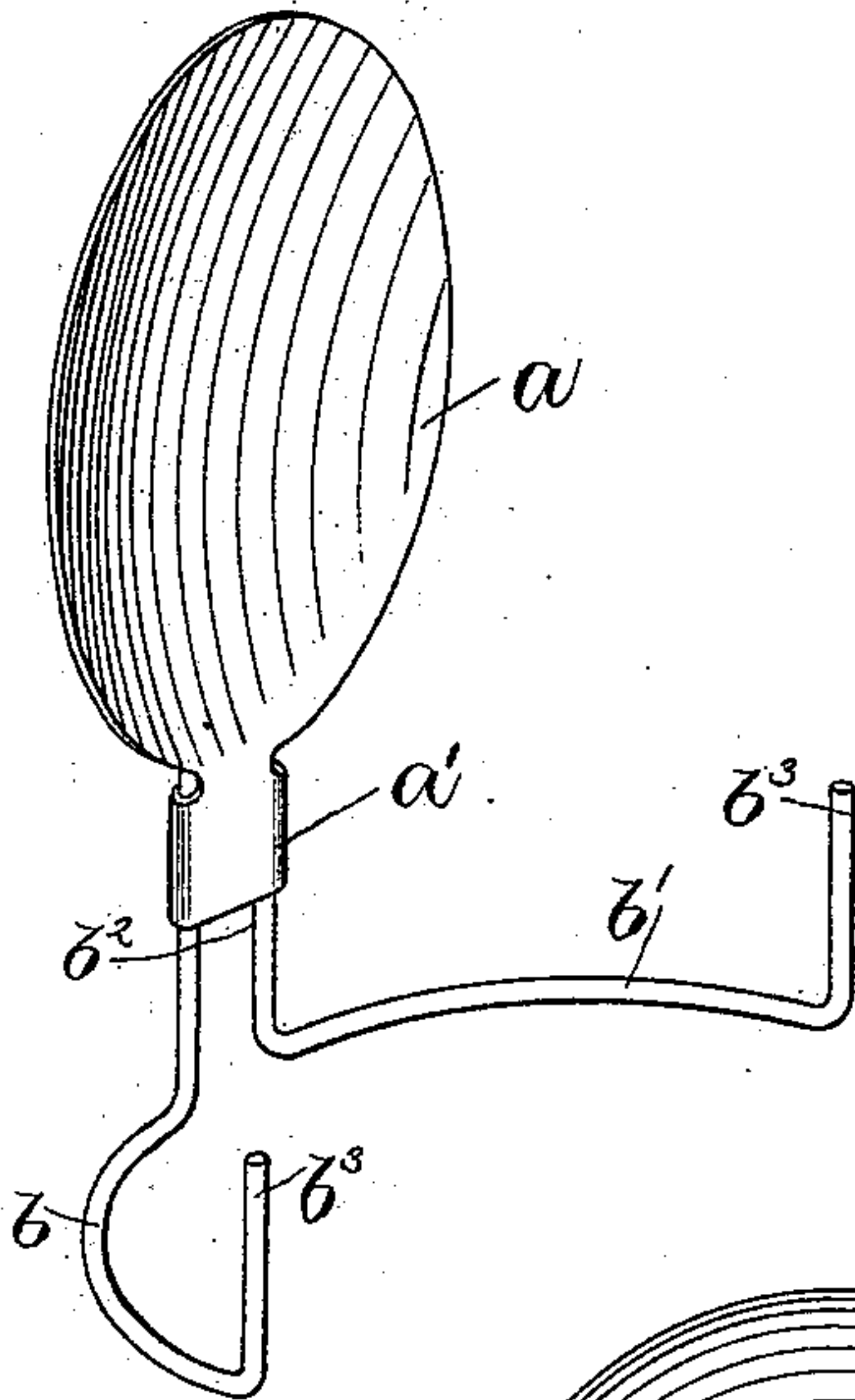


FIG. 2.

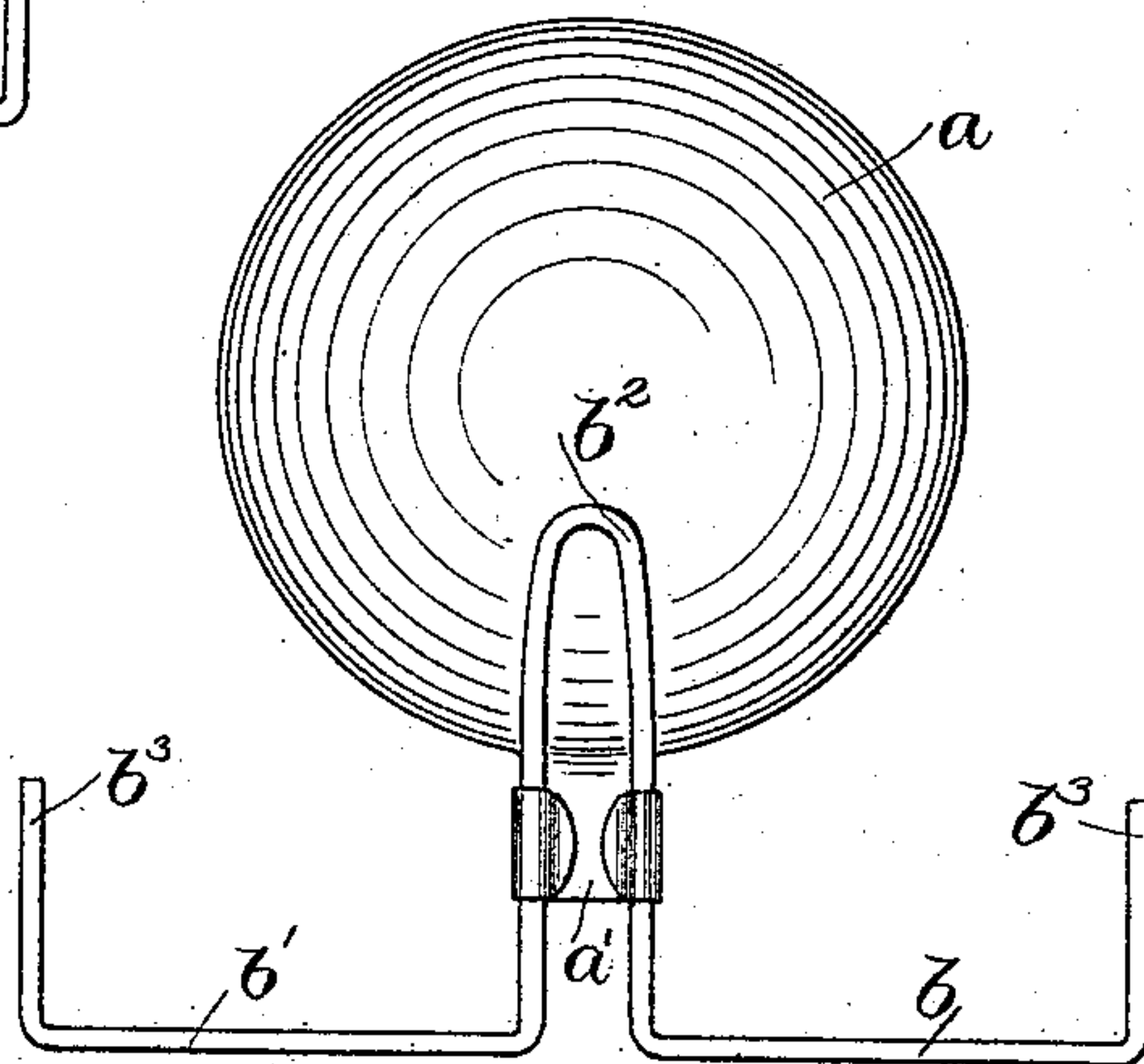


FIG. 3.

WITNESSES

Arthur S. Davis  
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INVENTOR

George H. Bliss,  
by Leroy & Gregory Attys

# UNITED STATES PATENT OFFICE.

GEORGE H. BLISS, OF PITTSFIELD, MASSACHUSETTS.

## REFLECTOR AND SHADE FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 529,105, dated November 13, 1894.

Application filed February 3, 1890. Serial No. 338,993. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. BLISS, of  
Pittsfield, county of Berkshire, State of Mas-  
sachusetts, have invented an Improvement in  
5 Reflectors and Shades for Lamps, of which  
the following description, in connection with  
the accompanying drawings, is a specification,  
like letters on the drawings representing like  
parts.

10 This invention has for its object to construct  
a reflector and shade for lamps which greatly  
enhances the light, yet is cheap to manufac-  
ture, and may be readily applied.

In accordance with this invention a disk is  
15 arranged, preferably adjustably, on a frame  
which latter is so constructed as to be carried  
in a lamp chimney, presenting the disk at one  
side of the flame.

Figure 1 shows in perspective a reflector  
20 and shade for lamps, embodying this inven-  
tion; Fig. 2, a plan view of a lamp chimney  
showing the reflector and shade contained in  
it, and Fig. 3 a rear side view of the reflector  
and shade.

25 The disk *a*, has formed in it, at its lower  
end, a loop *a'*.

A frame, made of wire or equivalent ma-  
terial, comprises two arms *b, b'*, extending in  
opposite directions, a central loop *b<sup>2</sup>*, and two  
30 vertically extended arms *b<sup>3</sup>*, at the outer ends  
of the arms *b, b'*, to maintain the disk steady.  
The arms *b, b'*, are curved semi-circularly to  
fit the interior of a lamp chimney *d*, at its  
lower end. The disk *a* is held on the loop *b<sup>2</sup>*

adjustably by means of a loop *a'*, it sliding 35  
thereon frictionally. The disk *a* is slightly  
concaved, and brightened on one side.

To place the reflector in position the arms  
*b, b'*, are drawn toward each other and the  
whole inserted in the chimney so that the 40  
lower edge of the frame lies just even with  
the bottom of the chimney or thereabouts.  
The disk *a* is thereby presented at one side  
of the flame, so as to serve as a reflector and  
also as a shade.

I do not desire to limit my invention to any  
particular construction of parts as they may  
be variously modified.

I claim—

1. The disk *a* and frame holding it and a 50  
loop *a'* on said disk, said frame comprising  
the spring acting arms *b, b'*, and the central  
loop *b<sup>2</sup>*, at right angles thereto, held friction-  
ally in said loop *a'*, substantially as described.

2. The disk *a* and frame holding it, and a 55  
loop *a'* on said disk, said frame comprising  
the spring acting arms *b, b'*, adapted to fit  
the interior of a lamp chimney, the central  
loop *b<sup>2</sup>* longitudinally adjustable in the loop  
*a'* and the vertical end arms *b<sup>3</sup>*, substantially 60  
as described.

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

GEORGE H. BLISS.

Witnesses:

R. B. BARDWELL,  
C. A. RAYMOND.