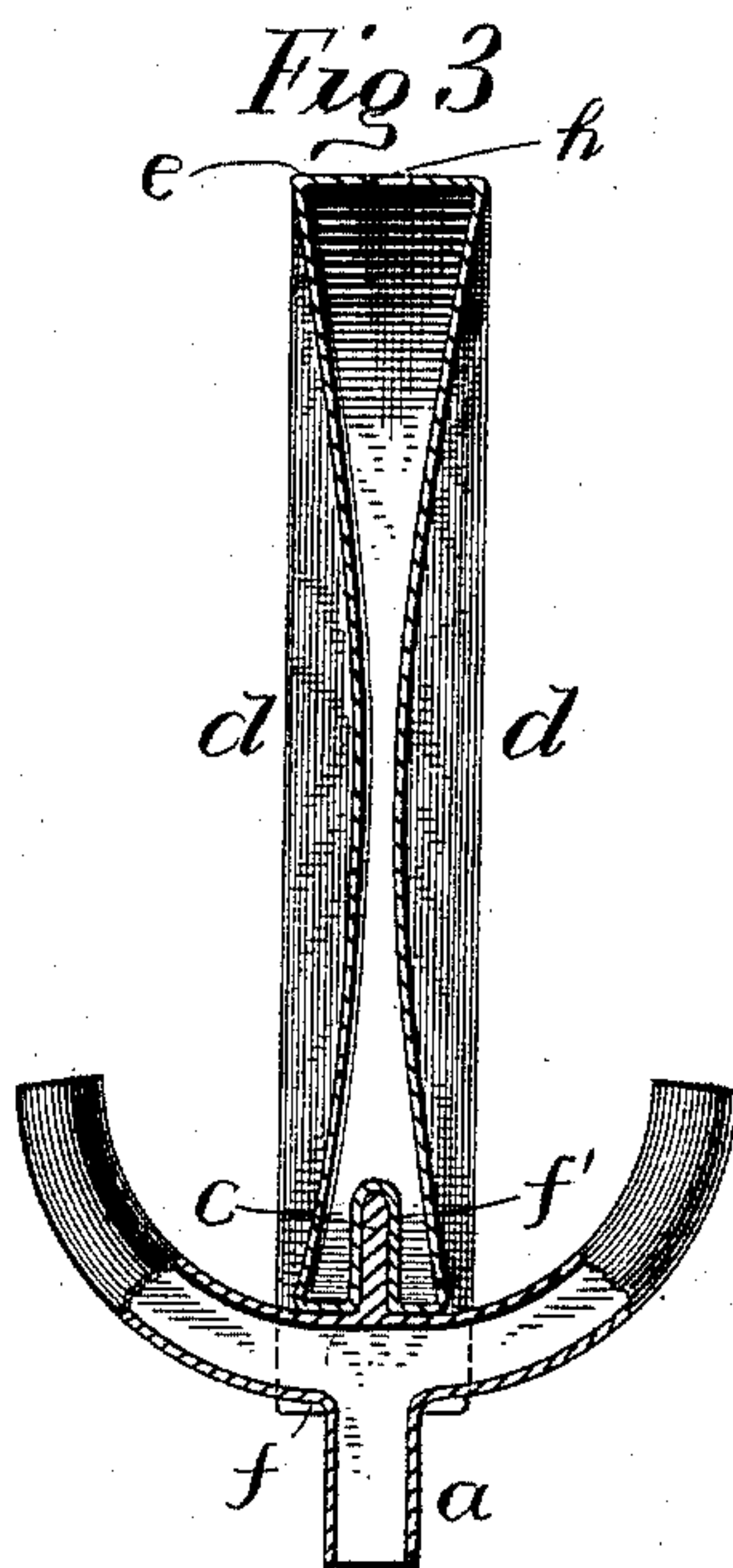
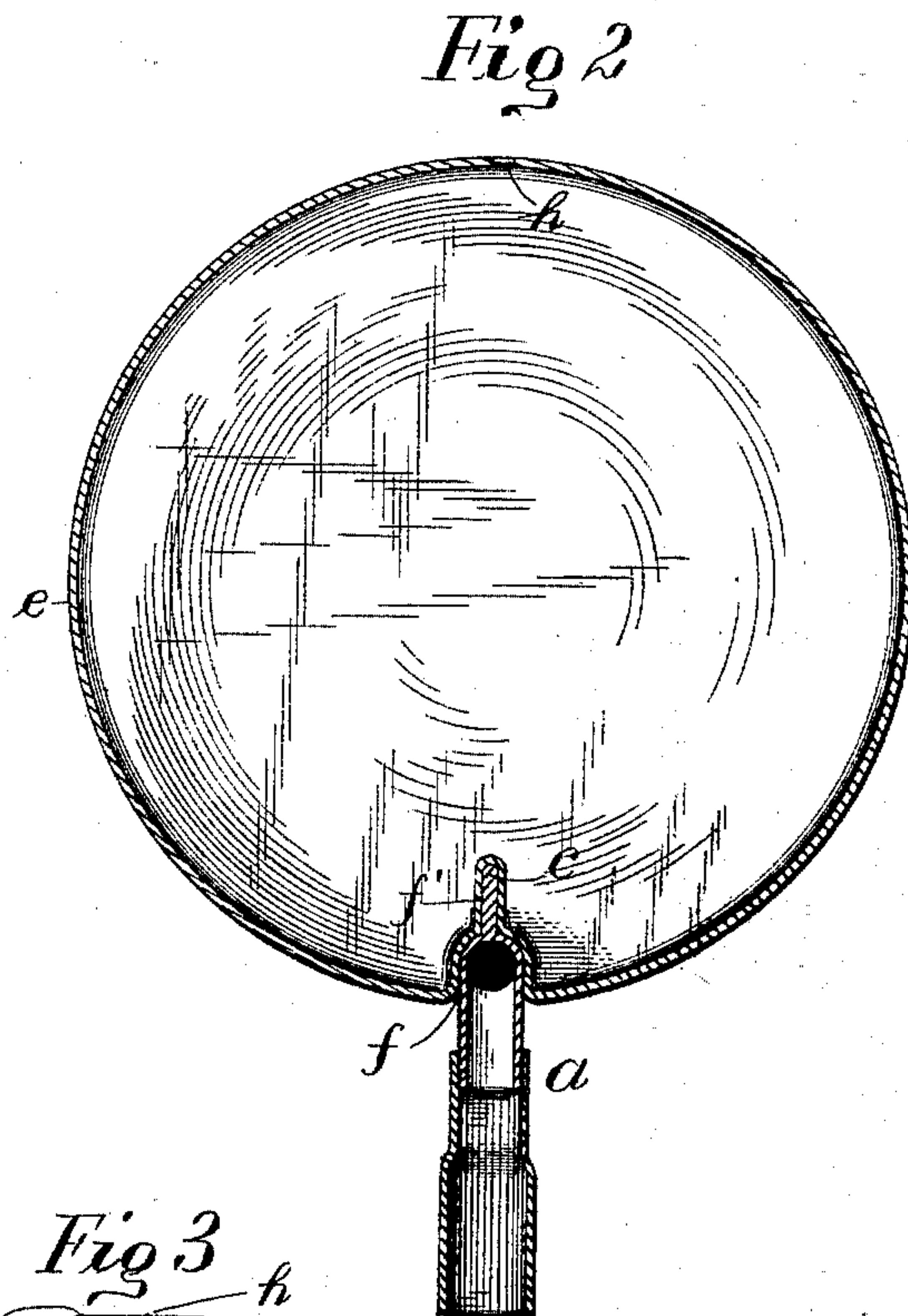
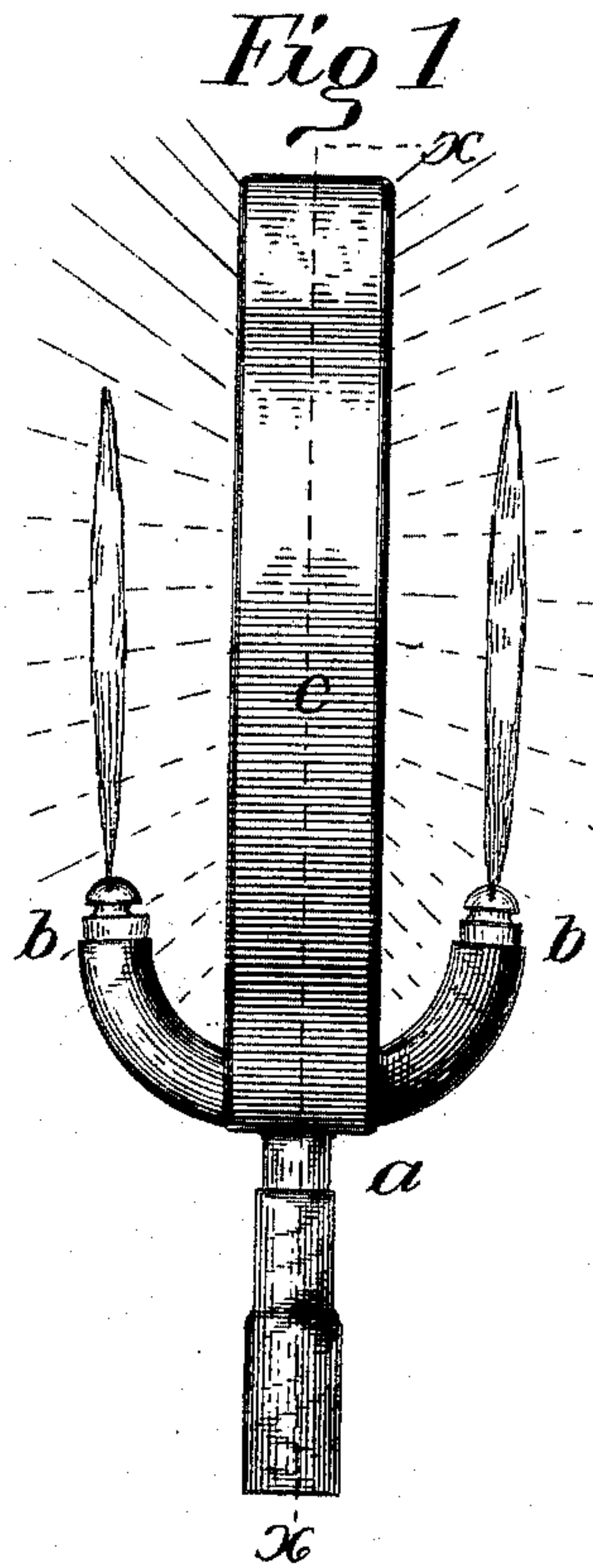


(No Model.)

A. ZALUD.  
REFLECTOR.

No. 483,197.

Patented Sept. 27, 1892.



Witnesses:  
*C. C. Birdline*  
*J. B. Owens*

Inventor  
*Alfred Zalud*  
per *Attorney*  
*his Attorney*

# UNITED STATES PATENT OFFICE.

ALBERT ZALUD, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO ANDREW J. ERHART, OF SAME PLACE.

## REFLECTOR.

SPECIFICATION forming part of Letters Patent No. 483,197, dated September 27, 1892.

Application filed August 31, 1891. Serial No. 404,301. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT ZALUD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have  
5 invented certain new and useful Improvements in Reflectors; 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  
10 to make and use the same.

This invention is intended for gas-brackets, and more particularly to double gas-burners.

The object to be accomplished is to provide  
15 a simple, cheap, and convenient arrangement which will greatly increase the quantity of lateral rays of light.

With this object in view my invention consists in the peculiar features and combinations of parts more fully described hereinafter, and pointed out in the claim.  
20

In the accompanying drawings, Figure 1 represents an end elevation of my invention; Fig. 2, a vertical section on line X X, Fig. 1; Fig. 3, a transverse section.

25 My device is applicable to any double gas bracket or burner, such as *a*. Midway between the burner-tips *b* is located a pin *c*.

The reflector consists of a hollow circular disk having concavo-concave reflecting sides  
30 *d* and a flat periphery *e*, all made of an integral piece of glass. The inside of the disk is silvered, and the lower part is provided with a transverse recess *f* for the reception of the burner-bracket *a* and a vertical recess *f'* for  
35 the reception of the pin *c*, by which means the reflector is securely held onto the bracket and in the proper equidistant position between the gas-jets, as more clearly shown in Fig. 3.

A recess *h* is made in the top of the reflector to allow hot air to escape from the interior for the purpose of overcoming danger of breakage from expansion of heated air.

With my device thus constructed and applied to a double burner it will be seen that  
45 lateral rays of light from each flame are tangentially reflected away from the reflector, as denoted by lines, and the quantity of light greatly augmented. It will also be seen that  
50 in addition to having the rays reflected laterally a portion of them are reflected downwardly and upwardly, thereby more perfectly diffusing and increasing the light.

It is evident that my invention could be varied in many ways that might suggest them-  
55 to a skilled mechanic. Therefore I do not limit myself to the exact construction herein shown, but consider myself entitled to all such variations as come within the spirit and scope of my invention.

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

The combination of a pair of gas-burners located in close proximity to each other, an  
65 upwardly-projecting pin between the burners, and a vertical reflecting-disk provided with a transverse recess to fit over the burner-pipe, and a vertical socket to receive the pin, as set forth.

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

ALBERT ZALUD.

Witnesses:

VACLAV OPELKA,  
JOSEF KAMDLIK.