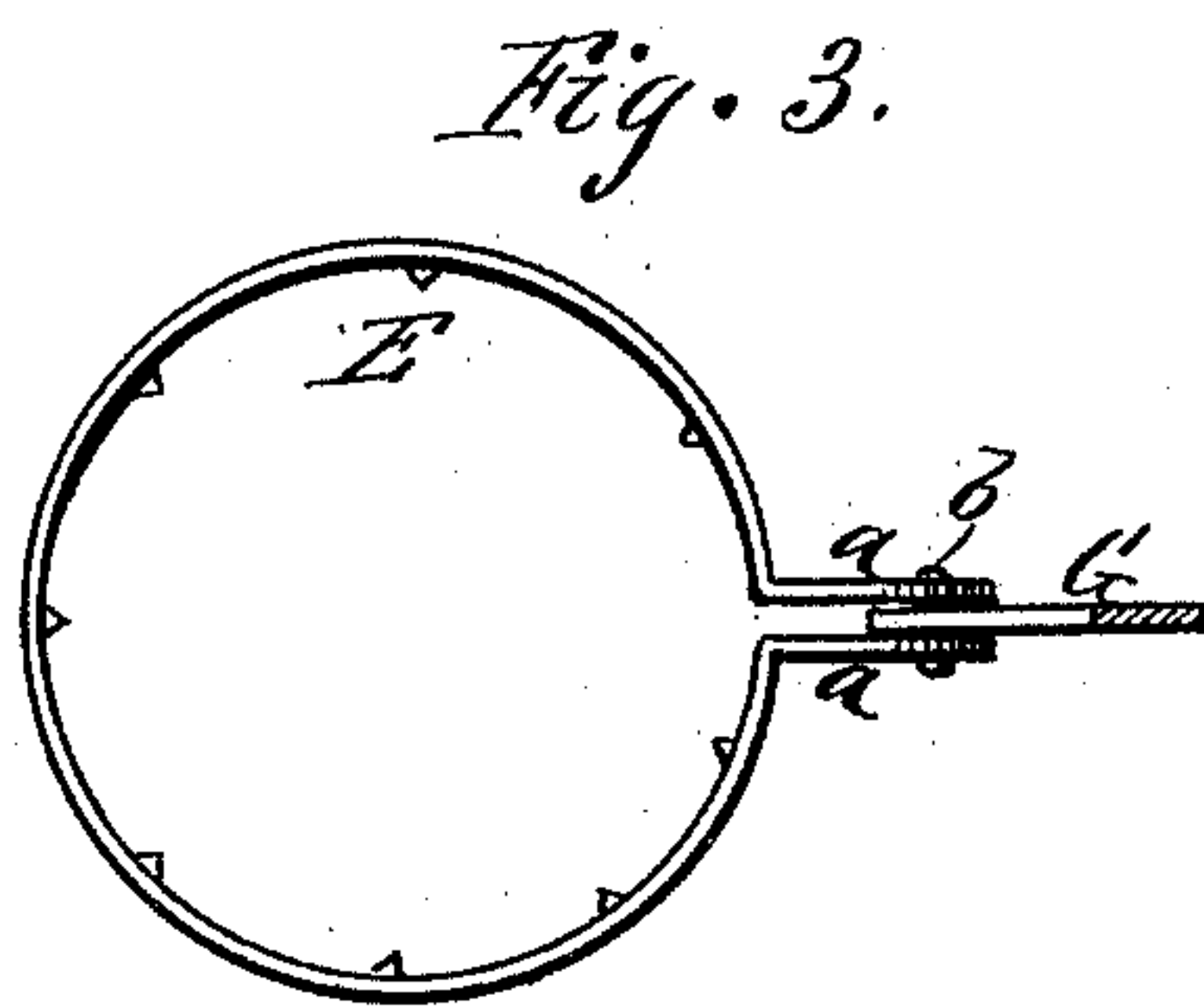
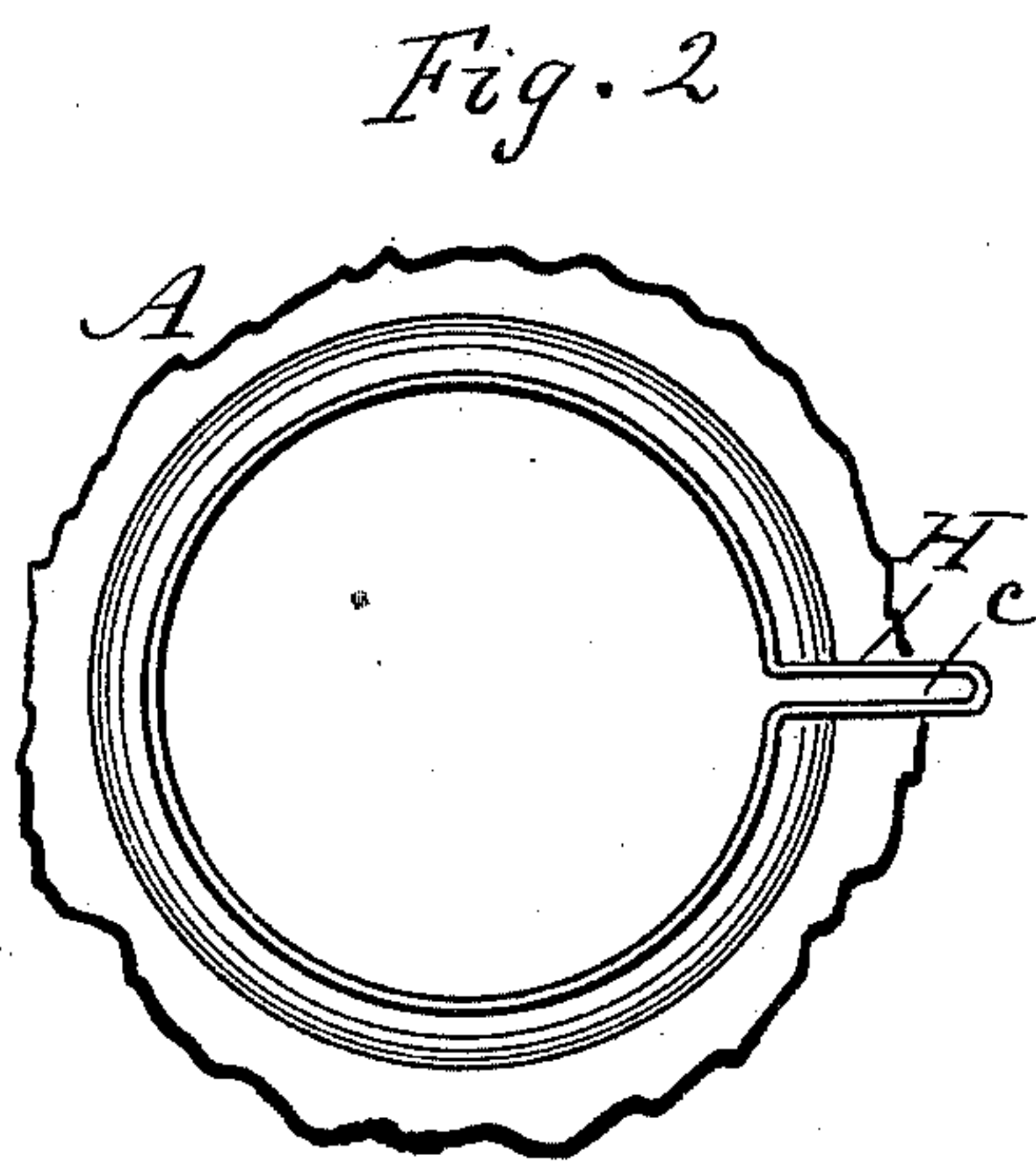
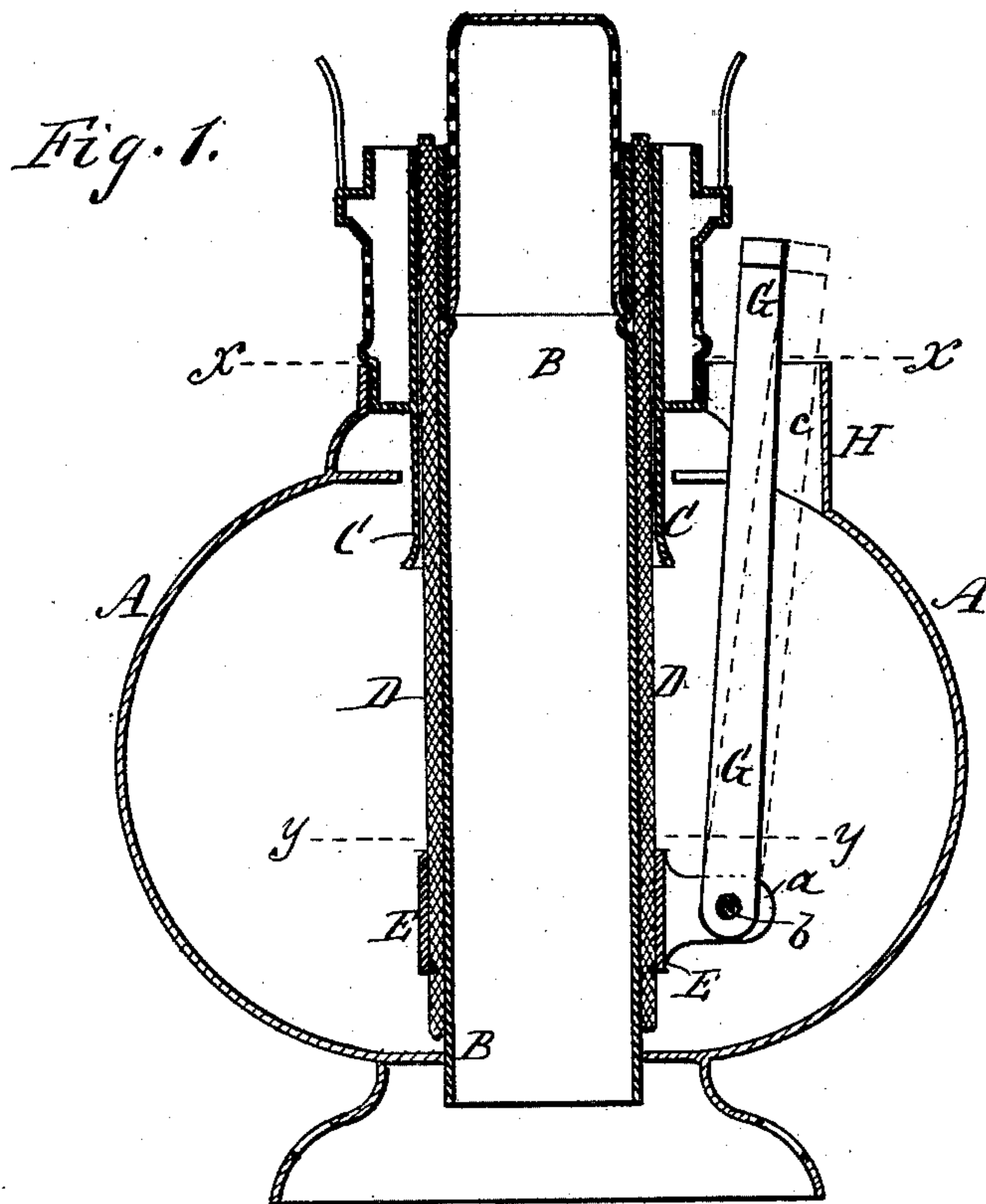


(No Model.)

C. H. BROAD.
WICK RAISER FOR LAMPS.

No. 467,571.

Patented Jan. 26, 1892.



Attest.
A. S. Smith
Chas. DeWidener.

Inventor.
Chas. H. Broad,
per R. J. Osgood,
Atty.

UNITED STATES PATENT OFFICE.

CHARLES H. BROAD, OF ROCHESTER, NEW YORK.

WICK-RAISER FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 467,571, dated January 26, 1892.

Application filed March 3, 1888. Serial No. 266,027. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. BROAD, of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Wick - Raisers for Lamps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this specification.

My improvement relates to circular-wick lamps and to that class in which the circular wick rests outside of and slides upon a central tube that extends the whole depth of the lamp and admits the draft at the bottom.

The invention consists in the combination, with the central tube, of a band encircling the same and holding the wick, with lugs formed on one side of the band, a strap or rod forming the handle pivoted to the lugs, and a guideway at the top of the lamp through which the bar passes, all as hereinafter described.

In the drawings, Figure 1 is a central vertical section of an Argand lamp, showing my improvement applied thereto. Fig. 2 is a top view of the lamp-body with the top removed looking downward from line *x x* of Fig. 1. Fig. 3 is a top plan view of the band that holds the wick, looking down from line *y y* of Fig. 1.

A indicates an Argand lamp of ordinary form, and B the central draft-tube.

C is an exterior tube at the top of the lamp, between which and the center tube B the wick D runs.

My improvement is as follows:

E is a band or ring which encircles the wick and holds the same and by which the wick is raised on the center tube. If desired, this band may be provided with pointed spurs, which enter the wick to prevent slipping. On one side of the band are horizontally-projecting lugs *a a*, between which rests the lower end of the bar or rod G, by which the wick is raised. This lower end is pivoted to the lugs by a pivot *b*, which allows free turning motion in a radial direction and also a certain degree of loose movement in a transverse direction. The upper end of the bar or rod extends up through the top of the lamp and serves as the handle by which the wick is raised.

H is a guideway at the top of the lamp, through which the bar or rod passes. This guideway is in the form of a curb high enough to prevent spilling of the oil and having a narrow slot *c* extending out radially a considerable distance to allow proper play to the handle, which passes through the same. The wick is raised simply by drawing the bar up through this slot.

I am aware that bands of similar form encircling the wick have before been used, and such I do not claim, broadly. In ordinary lamps, however, the handle is made stiff with the band and can be drawn up only in a vertical plane. In consequence there is more or less cramping of the band on the center tube and binding is produced, which prevents easy and accurate raising of the wick. When considerable power is applied to raise or lower the wick under such circumstances, it will go by jerks, too high or too low, which is a source of much trouble, especially when the lamp is lighted. It is the object of my invention to obviate this difficulty, and I accomplish it by providing the band with lugs and pivoting the lower end of the handle thereto. By this means no binding will occur, as the band will adapt itself to slide on the tube without cramping. The handle not only has a joint action radially, but the pivot allows it a free movement transversely or crosswise.

Another advantage results from the use of the elongated guideway *c*, in which the handle rests. By this means as the handle is drawn up it can also be drawn outward in an angular direction, as indicated by the dotted lines in Fig. 1, so as to facilitate the drawing action and accommodate the band and run free of the chimney.

Having described my invention, I do not claim, simply and broadly, a band for holding the wick and a handle for operating the band.

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

1. The combination, with a central-draft lamp, the top of the reservoir being provided with an opening near the neck of the central opening of the lamp, said opening being in communication with the neck, of a removable wick-raiser consisting of a band by which the wick is raised, surrounding the central tube,

and a bar hinged thereto and extending up through the top of the opening in the reservoir, substantially as shown and described.

2. The combination, with a central-draft lamp the burner of which is removable, the top of the reservoir being provided with an opening near the neck of the lamp, in which the wick-raising bar works, and said opening being in communication with the neck, of a removable wick-raiser consisting of a band which surrounds the central tube and a bar hinged thereto and extended up through the opening in the top of the reservoir, substantially as shown and described.

3. The combination, with a central-draft lamp the burner of which is removable, the top of the reservoir being provided with an opening near the neck of the lamp, in which the wick-raising bar works, of a wick-raiser consisting of a band which surrounds the central tube and a bar hinged thereto and extended up through the opening in the top of

the reservoir, substantially as shown and described.

4. The combination, with a central-draft lamp the burner of which is removable, of a removable wick-raiser consisting of a band which surrounds the central tube and a bar hinged to said band and extending up through the top of the reservoir, substantially as described.

5. The combination, with a central-draft lamp, of a wick-raiser consisting of a band which surrounds the central-draft tube and a bar hinged thereto and extending up through an opening in the top of the lamp, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

CHARLES H. BROAD.

Witnesses:

R. F. OSGOOD,
P. A. COSTICH.