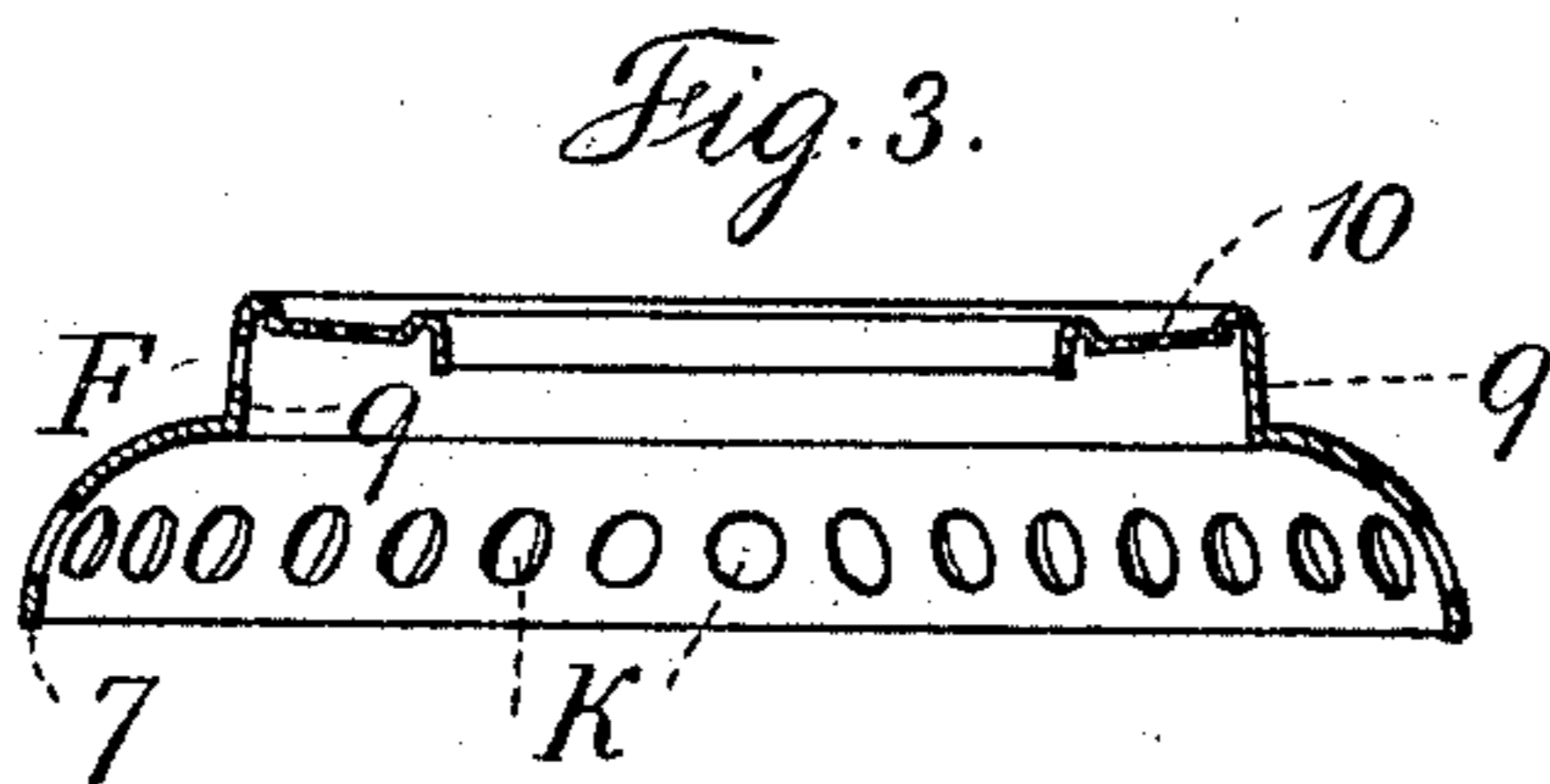
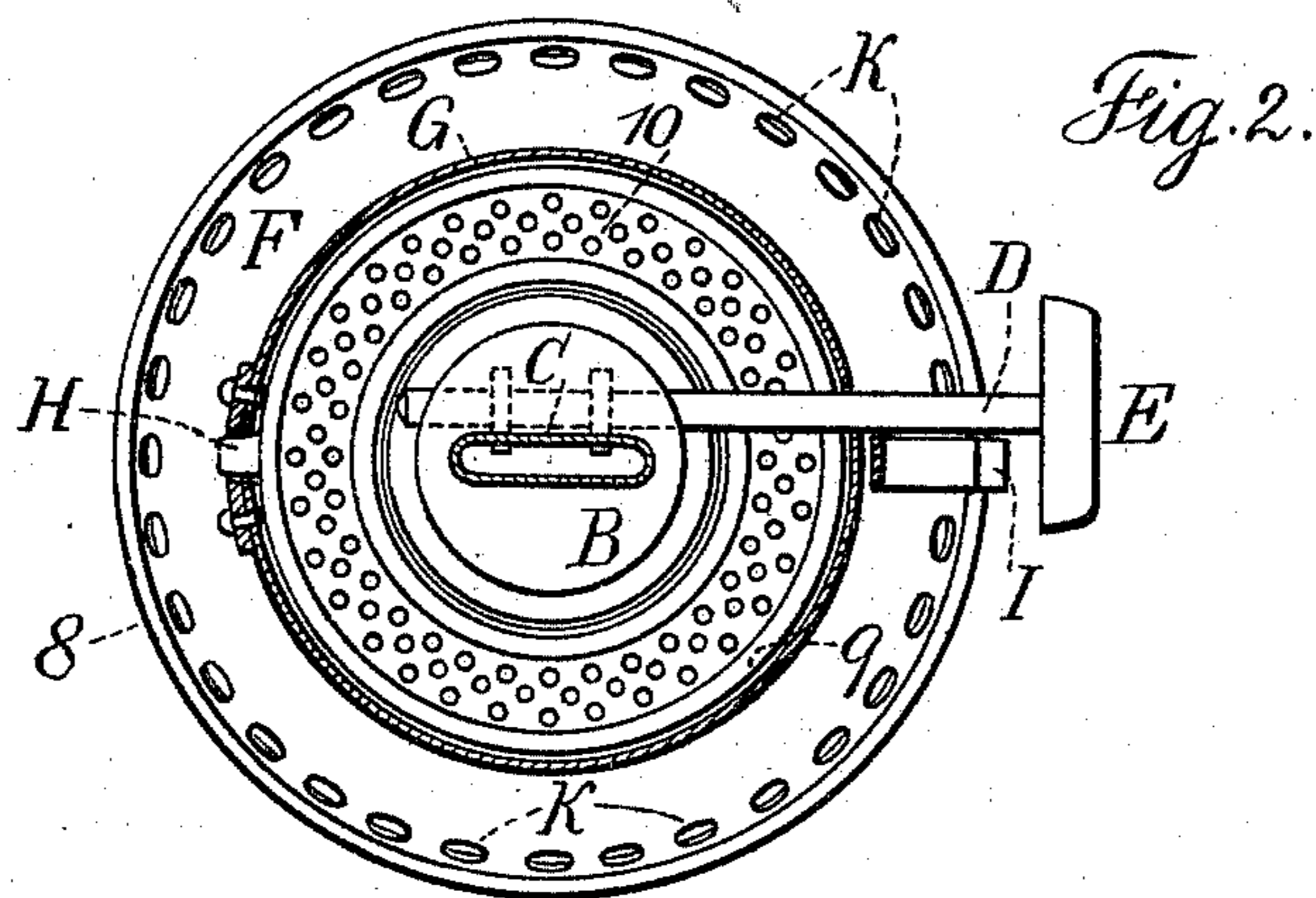
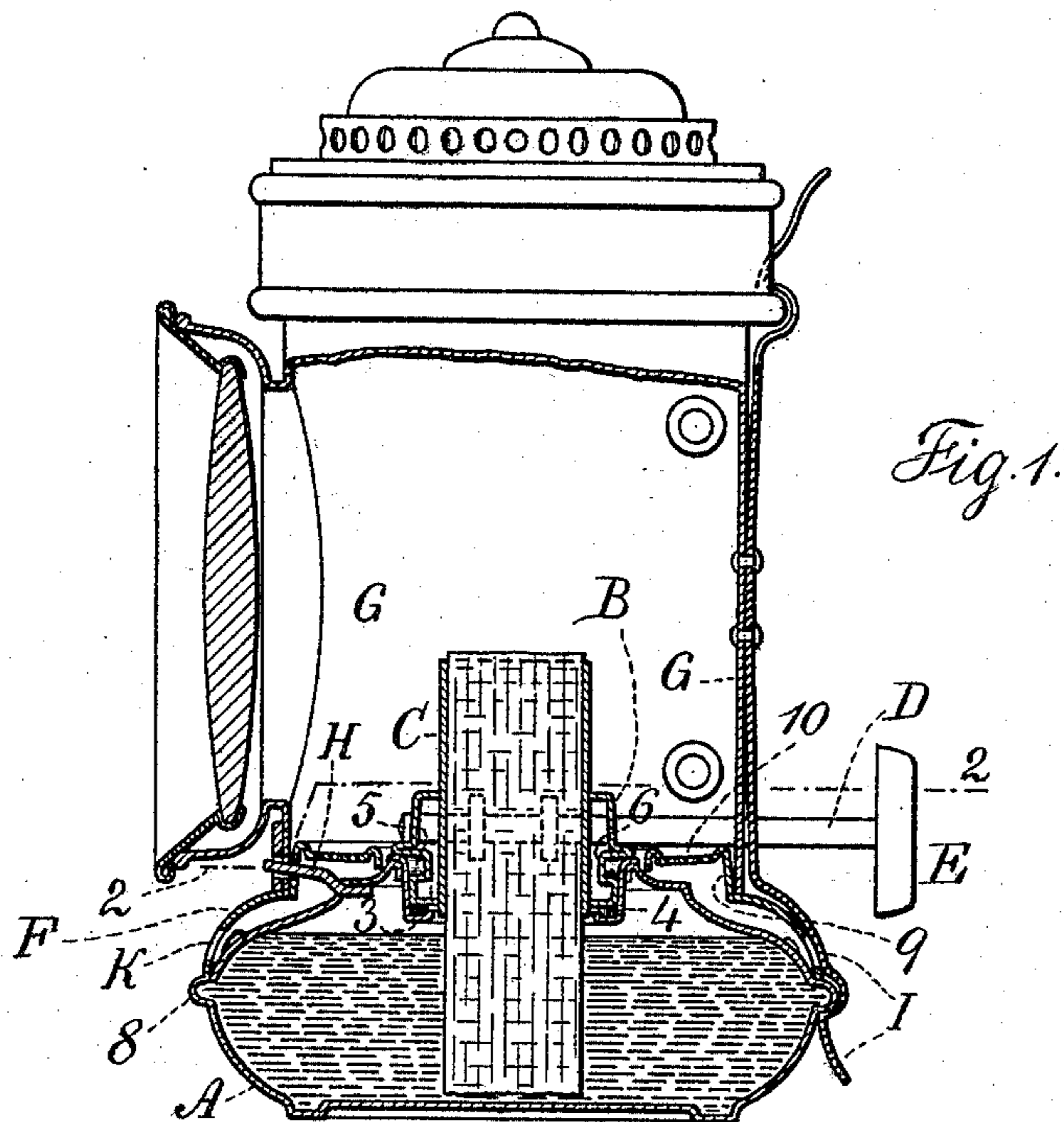


(No Model.)

J. H. WHITE.  
LAMP FOR BICYCLES.

No. 584,613.

Patented June 15, 1897.



Witnesses:  
J. Stait  
Chas. H. Smith

Inventor:  
J. H. White  
per Lemuel W. Serrell  
Atty.

# UNITED STATES PATENT OFFICE.

JAMES H. WHITE, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE MANHATTAN BRASS COMPANY, OF NEW YORK, N. Y.

## LAMP FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 584,613, dated June 15, 1897.

Application filed August 12, 1895. Serial No. 559,013. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES H. WHITE, a citizen of the United States, residing at the city of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Lamps for Bicycles and other Vehicles, of which the following is a specification.

Difficulty has heretofore been experienced in preventing the bicycle-lamp from being extinguished by the currents of air, especially when the vehicle is being propelled at a rapid rate. Lamps for bicycles and other vehicles have been made with a removable metallic chimney having a lens or bull's-eye in the front of the light, but the flame is liable to be extinguished by the drafts of air going into the bottom of the chimney and around the wick and wick-tube.

In my present improvements I provide a removable shield resting at its lower edge upon the fountain or reservoir and perforated in the lower part and extending up within the removable chimney, where there are numerous perforations in a horizontal or nearly horizontal ring that sets closely around the ratchet-cap of the wick-tube, and this shield is held at one side by a tongue on the reservoir passing out through a mortise in the shield and holding not only the shield but also the chimney, and at the other side the shield is held down by a spring connected with the chimney and which snaps over the annular rib around the reservoir, and I find it advantageous to introduce an annular leather packing between the reservoir and the base of the ratchet-cap to lessen the risk of the oil passing over and spreading upon the exterior of the reservoir and upon the shield.

In the drawings, Figure 1 is a section of the reservoir and a partial section of the metal chimney. Fig. 2 is a plan view of the shield, burner, and reservoir, the chimney being in section at the line 2 2 of Fig. 1; and Fig. 3 is a separate section of the shield.

The reservoir A is of ordinary character, and for bicycle-lamps it is usually shallow, and the upper part of the reservoir is provided with a central opening for the reception of the ratchet-cap B, through which the wick-tube C passes, as usual, and the wick-raiser is provided with a shaft D and thumb-wheel

E, also of ordinary character, and the metal of the reservoir is depressed, as shown at 3, to form a ledge upon which rests a washer 4, of leather or similar material, that aids in making a tight joint between the ratchet-cap and the reservoir, the parts being held together by the interlocking pins 5 and bayonet-recesses 6, the wick-tube and ratchet-cap receiving a partial rotation to bring the pins and recesses into interlock, as usual, in connecting the ratchet-cap and reservoir.

The shield F is formed of a size to cover the reservoir, the bottom edge 7 of the shield resting upon the reservoir, and preferably upon the annular rib 8 around the reservoir, and this shield F has openings around it at K and rises above the reservoir, so that there is an air-space between the shield and the reservoir, and there is a cylindrical portion 9 upon the shield, around which the base of the metal chimney G passes, and within the chimney the shield is flat or nearly flat and provided with numerous perforations at 10, forming an air-distributor, and the inner edge of the shield rests upon the top of the reservoir adjacent to the recesses into which the ratchet-cap is passed.

The tongue H is permanently connected at its inner end to the reservoir, preferably by passing through a mortise in the reservoir and being soldered into place, and this tongue passes through a mortise in the cylindrical portion 9 of the shield and also through a mortise in the lower portion of the metal chimney, so that after the parts are set together the tongue H holds the shield and the chimney in position at one side of the lamp, and upon the chimney G is a spring I, extending down from the chimney and spread outwardly and recessed so as to snap upon the annular rib 8 and hold the chimney and other parts in their proper positions upon the lamp.

The chimney itself does not form any part of this invention, except that it is necessary to provide some chimney for a lamp of this character. It will also be apparent that after the shield F has been placed over the tongue H and rests upon the reservoir in its proper position the wick-tube and ratchet-cap are to be inserted into the opening in the lamp-reser-

voir and given a partial rotation to bring the interlocking portions of the bayonet-recess and the pins together and permanently connect the wick-tube to the reservoir, and in  
 5 this position the shaft D of the wick-raiser rests upon and holds down the shield F by the lower side of the shaft coming into contact with the annular ribs of the shield that surround the air-distributing perforations.  
 10 Hence the parts are in a convenient position for lighting or for raising or lowering the wick previous to the chimney being put in position, and when the chimney is put in position by placing the mortise of the chimney  
 15 over the end of the tongue H and shutting down the lower end of the chimney around the cylinder 9 and snapping the spring I into its position the parts of the lamp are reliably held together, and, as is usual in bicycle-lamps, the chimney may have arms or bars  
 20 extending to the clip by which the lamp is held upon the bicycle, but these features, while used by me, do not necessarily form a part of the present invention.

25 I claim as my invention—

1. The combination with a lamp-reservoir and a metallic chimney, of a shield extending over and surrounding the upper part of the reservoir and resting at its lower edge  
 30 upon a rib around the reservoir to inclose an air-chamber and provided with openings near the base of the shield for air to pass into the air-chamber, and with vertical openings in a horizontal or nearly horizontal portion of the

shield coming within the chimney and forming an air-distributor for admitting the currents of air to pass upwardly into such chimney, a tongue permanently fastened to the top of the reservoir and passing through a mortise in the shield and through a mortise  
 40 in the lower portion of the metallic chimney, substantially as set forth.

2. The combination with a lamp-reservoir and a metallic chimney, of a shield extending over and surrounding the upper part of the reservoir and resting at its lower edge  
 45 upon a rib around the reservoir to inclose an air-chamber and provided with openings near the base of the shield for air to pass into the air-chamber, and with vertical openings in a horizontal or nearly horizontal circular portion of the shield coming within the chimney  
 50 and forming an air-distributor for admitting the currents of air to pass upwardly into such chimney, a tongue permanently fastened to the top of the reservoir and passing through a mortise in the shield and through a mortise  
 55 in the lower portion of the metallic chimney and a spring fastened to the metallic chimney and snapping over the rib around the reservoir for connecting the parts together, substantially as set forth.

Signed by me this 7th day of August, 1895.

JAMES H. WHITE.

Witnesses:

GEO. T. PINCKNEY,  
 S. T. HAVILAND.