

No. 633,460.

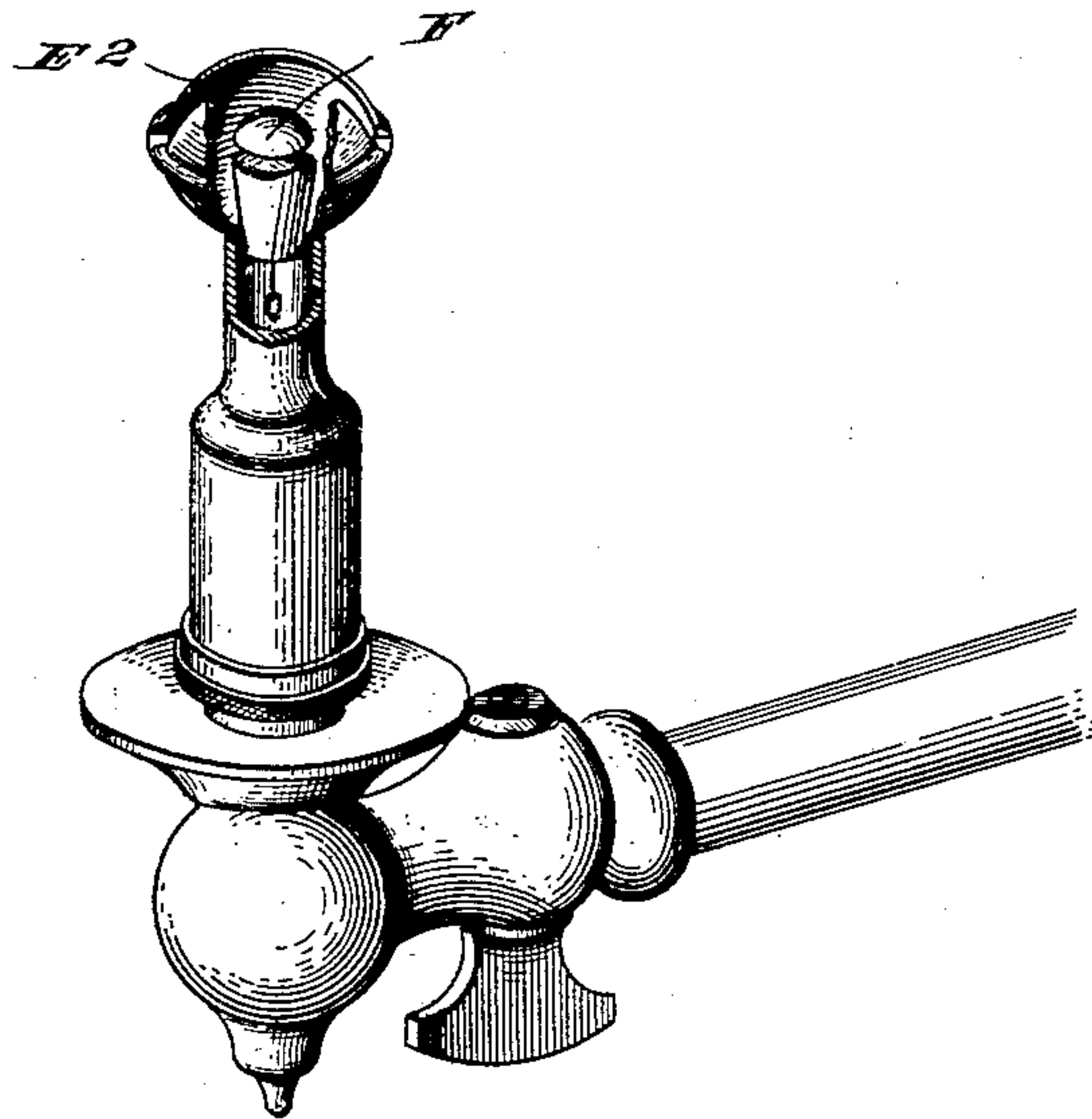
Patented Sept. 19, 1899.

J. KEELAN.  
GAS BURNER.

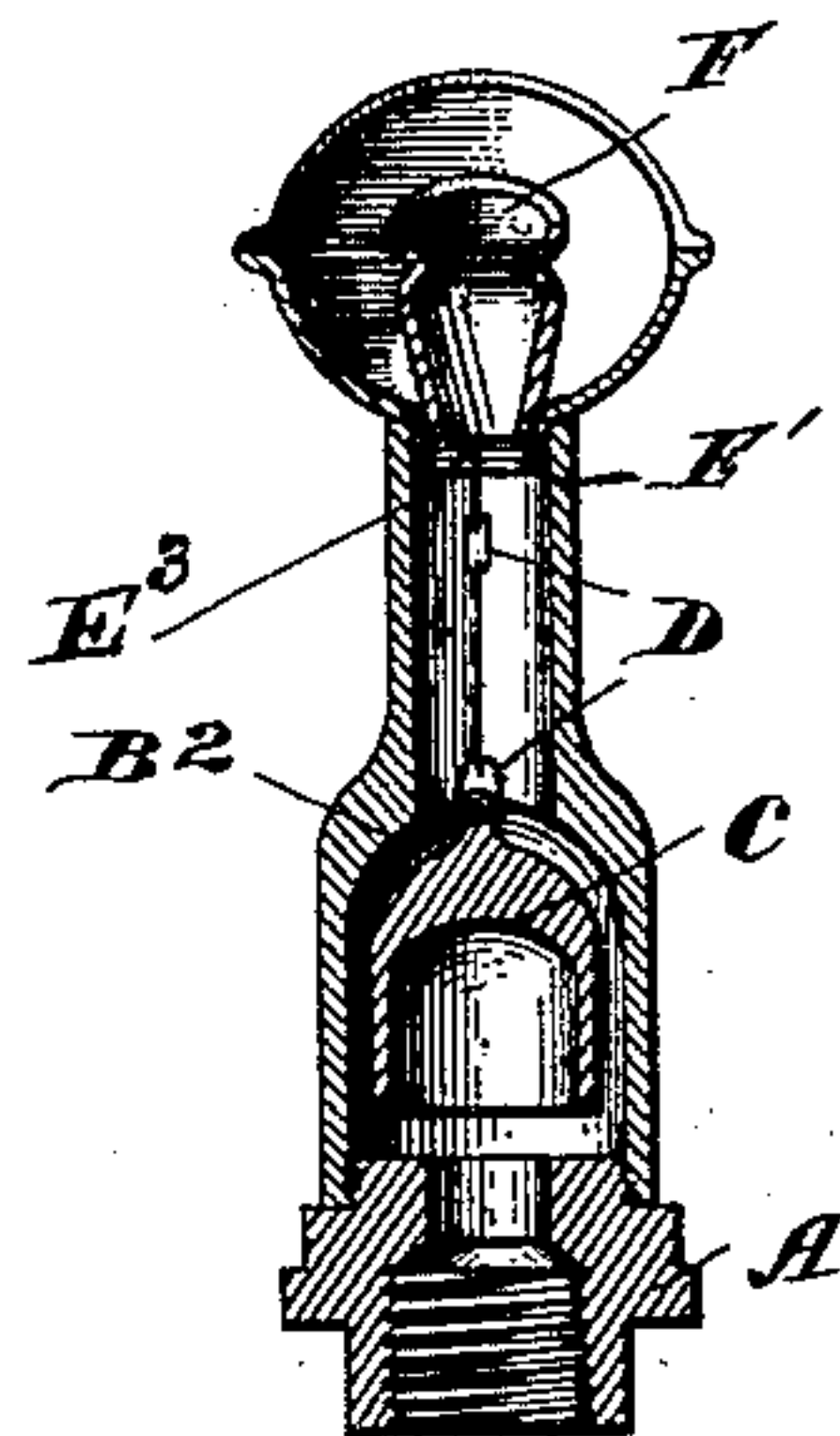
(Application filed June 18, 1898.)

(No Model.)

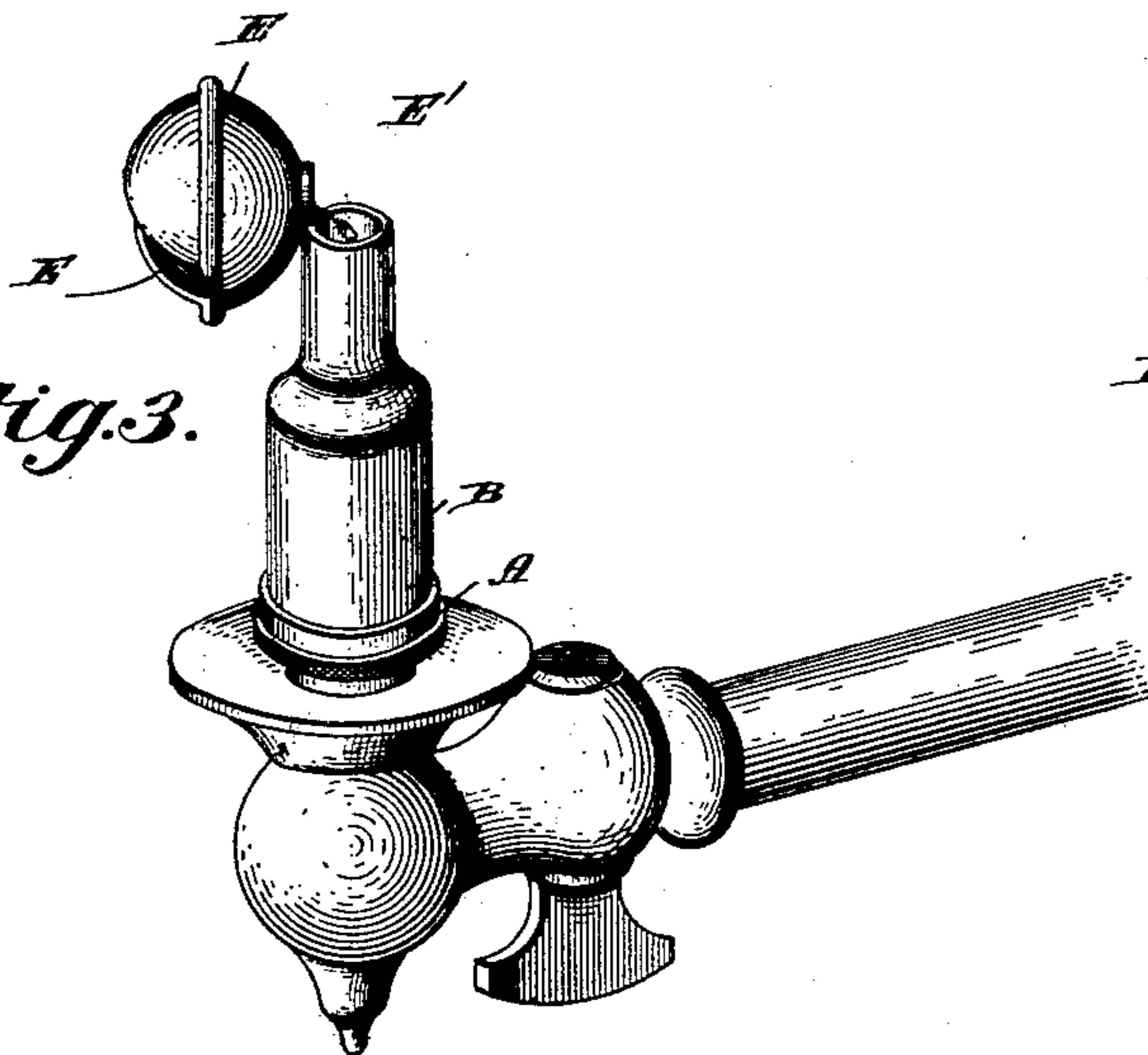
*Fig. 1.*



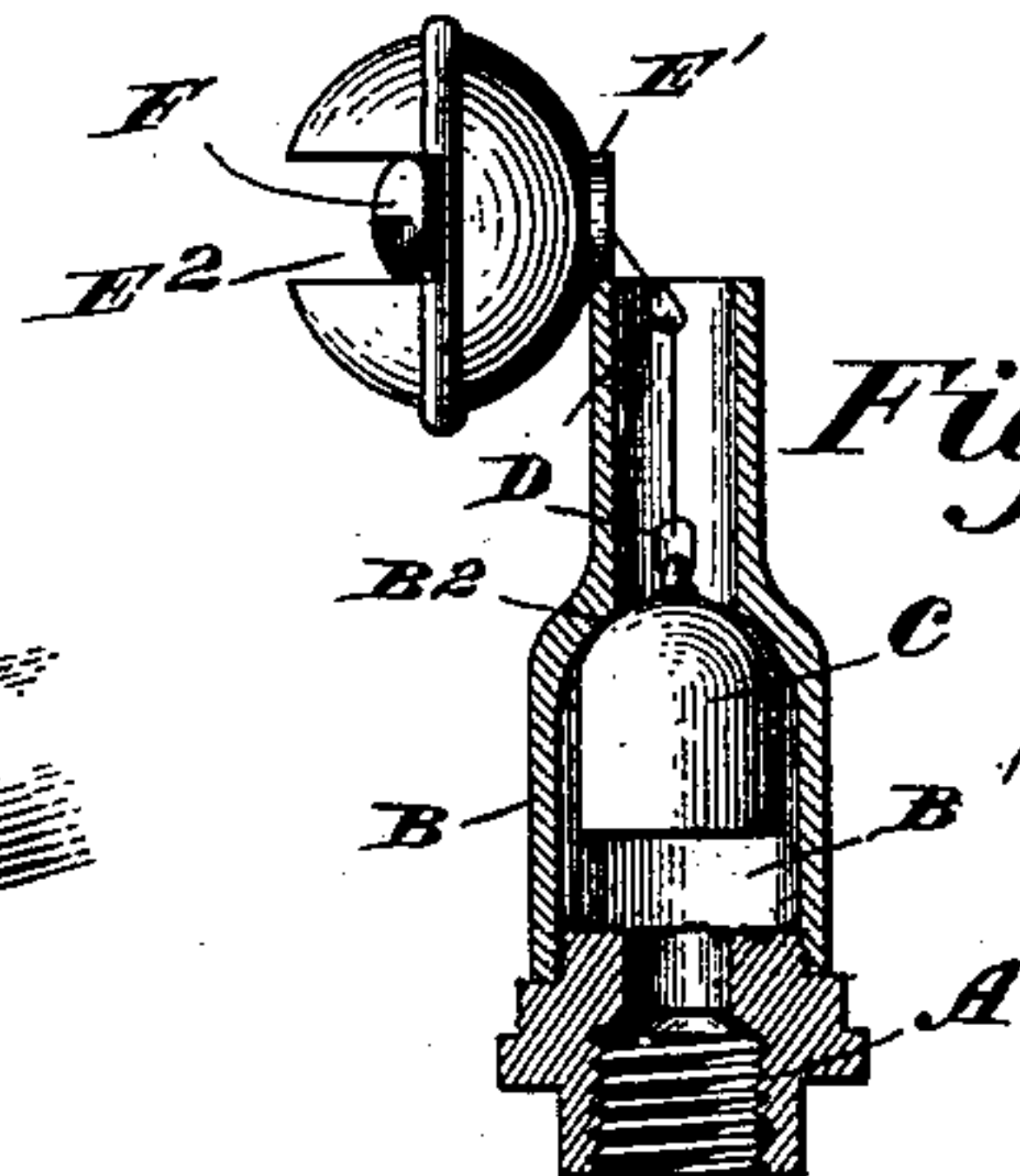
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN KEELAN, OF JOHNSTOWN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF  
TO MARK LAFFEY, OF SAME PLACE.

## GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 633,460, dated September 19, 1899.

Application filed June 18, 1898. Serial No. 683,833. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN KEELAN, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented a new and useful Gas-Burner, of which the following is a specification.

This invention relates generally to gas-burners, and particularly to a safety-burner, the object of which is to prevent persons unfamiliar with gas-burners to cause burning or damage by blowing out the gas; and with this object in view my invention consists, broadly, in providing a cut-off valve or plug, a movable top or cap, and connections between the said top and valve, whereby as the gas is blown out the top or cap will be blown to one side and the valve operated thereby, shutting off the gas and preventing its escape.

The invention consists also in certain details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view of a burner constructed in accordance with my invention, partly broken away to disclose the construction. Fig. 2 is a vertical sectional view. Fig. 3 shows in perspective the position of the parts when the gas is blown out; and Fig. 4 is a sectional view of the burner, the valve and top or cap being shown in elevation.

In the practical application of my invention I employ any suitable construction of base A, to which is secured the tubular portion B of the burner, said tubular portion being enlarged at its lower end and contracted at the upper end, thereby providing a chamber B' at the bottom and the interior shoulders B<sup>2</sup> about midway, which serve as a valve-seat for the valve or plug C, which is suspended within the chamber by means of link connections D, which in turn are connected to a movable top or cap E, essentially spherical in shape, and having a depending annular portion E', with which the tip F fits and which fits loosely into the top of the tube B. The upper portion of the top or cap is cut away, as shown

at E<sup>2</sup>, in order to prevent free access of air to the top of burner. A cross-bar E<sup>3</sup> extends across the end of the depending portion E', to which the link connections D are attached.

When the burner is properly used, the parts will occupy the positions shown in Figs. 1 and 2, and the operations are the same as an ordinary burner.

Should any one blow out the gas instead of turning off the cock, the top or cap will be blown off, thereby drawing up the valve or plug, and in this manner the flow of gas would be cut off and all danger or harm avoided.

The peculiar shape and construction of the cap or top facilitate these operations, as any draft sufficiently strong to blow out the gas must dislodge the top or cap, and when this is done the valve must cut off the supply of gas.

It will thus be seen that I provide an exceedingly cheap, simple, and efficient burner for the purpose intended, and it will also be understood that I can vary or change the various parts somewhat without departing from the broad principle of my invention.

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

1. A gas-burner, having a spherical-shaped top carrying a tip, and a valve located within the burner-tube and connected with the top, substantially as shown and described.

2. A gas-burner, comprising a tube having a valve and seat therein, a movable cap, and a link connection between the cap or top and valve, substantially as shown and described.

3. A gas-burner, comprising a tube having a chamber at its lower end and a valve-seat about midway its height, a movable top spherical in shape, and carrying a tip, a valve located within the chamber, and a link connection between the valve and top, substantially as shown and described.

JOHN KEELAN.

Witnesses:

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