

J. DLUGOPOLSKY.
BURNER.
APPLICATION FILED SEPT. 3, 1909.

944,324.

Patented Dec. 28, 1909.

Fig. 1.

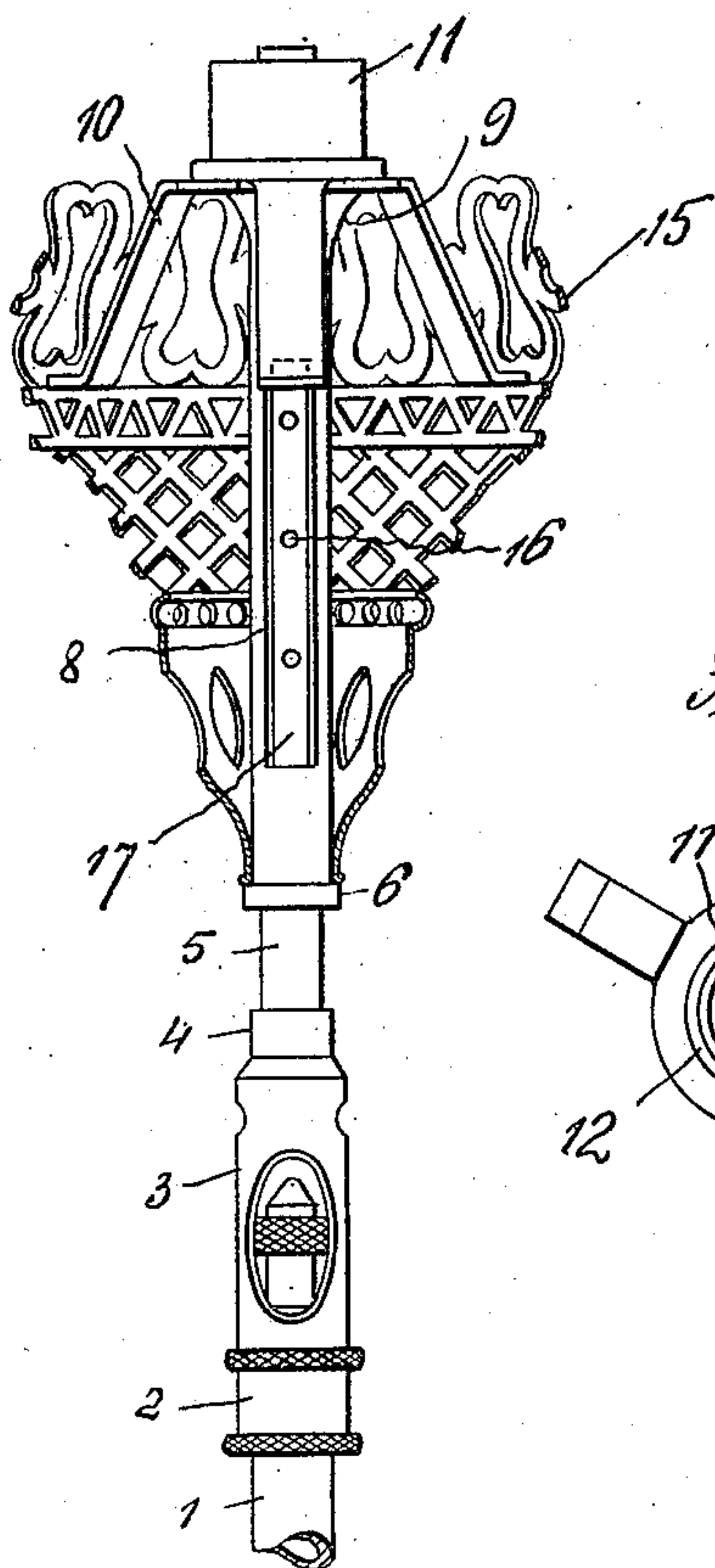


Fig. 2.

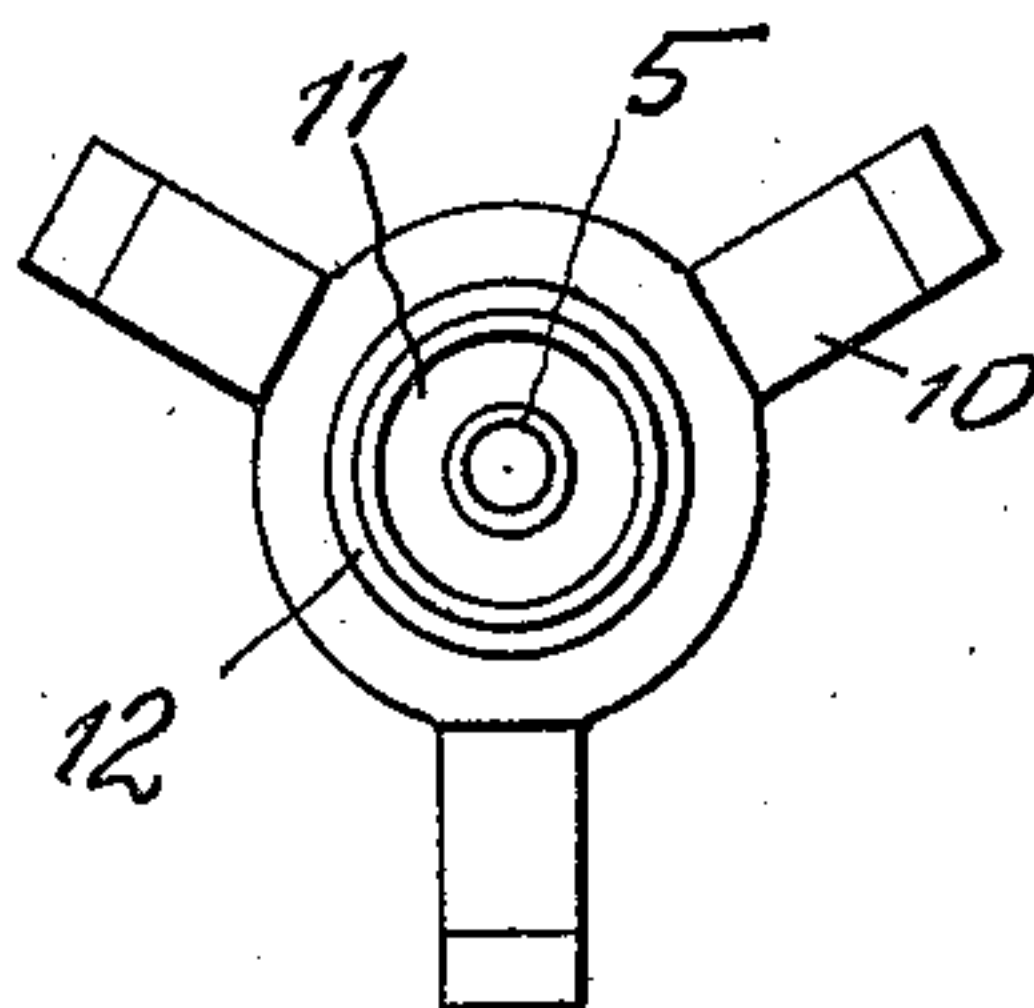
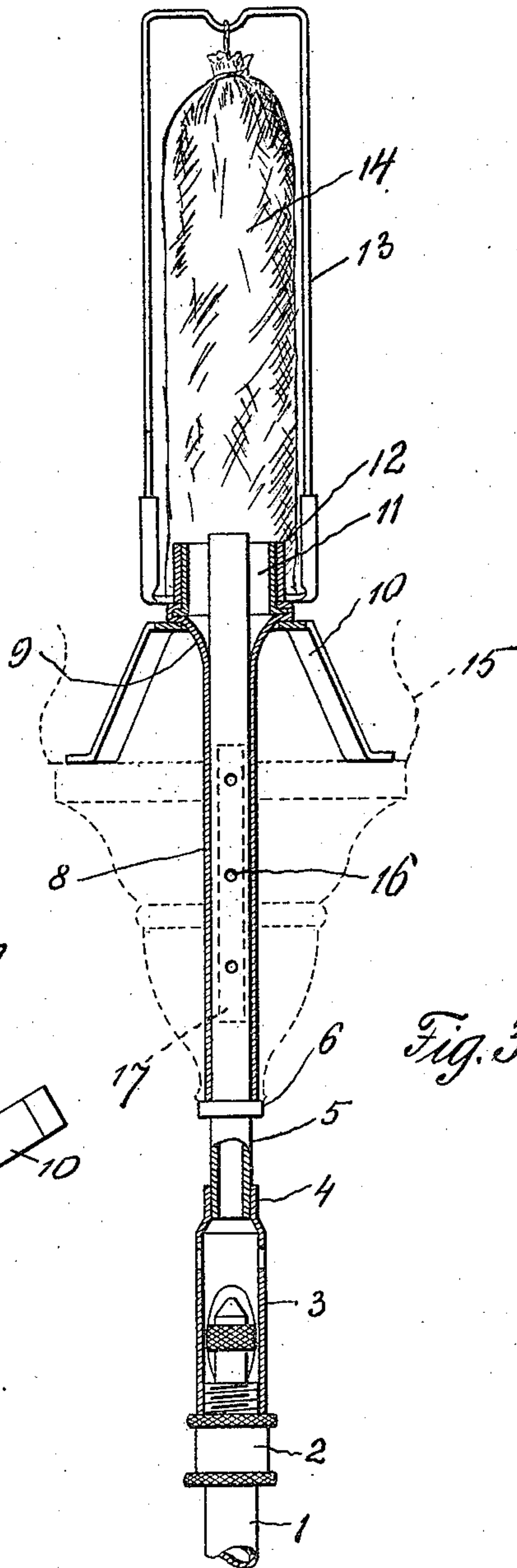


Fig. 3.



Witnesses
A. H. Rabsig,
N. S. Butler

Inventor
JOHN DLUGOPOLSKY,

By A. C. Everett & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JOHN DLUGOPOLSKY, OF NILES, OHIO.

BURNER.

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944,324.

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To all whom it may concern:

Be it known that I, JOHN DLUGOPOLSKY, a subject of the King of Hungary, residing at Niles, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Burners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to gas burners and the object of the invention is to provide a gas burner with a novel auxiliary mixer adapted to coöperate with the ordinary mixer in producing a better admixture of gas and air.

Another object of the invention is to provide a burner with a direct inlet pipe to the mantle, said pipe being independent of the mantle or shade holder.

With the above and other objects in view the invention consists in the novel construction, combination and arrangement of parts to be hereinafter described in detail and then claimed.

Reference will now be had to the drawing forming a part of this specification wherein there is illustrated a preferred embodiment of the invention, but it must be understood that the structural elements thereof can be varied or changed without departing from the spirit of the invention.

In the drawing:—Figure 1 is a side elevation of the burner partly broken away and partly in section, Fig. 2 is a plan of a portion of the same, and Fig. 3 is a vertical sectional view of the burner.

Considering the details of construction shown in the drawing, the reference numeral 1 denotes a gas supply pipe provided with a needle valve 2 and air inlet casing 3, said casing having the upper end thereof reduced, as at 4. These parts are common to the ordinary type of gas burner and it has been the policy heretofore to mount the mantle holder directly upon the reduced end of the casing 3, but I have found that better results can be obtained in the intensity of a light by interposing an auxiliary air mixer

between the upper end of the casing 3 and the mantle of the burner. The auxiliary mixer comprises a pipe 5 mounted in the reduced end 4 of the casing 3, said pipe adjacent to the fixed end thereof having an annular flange or collar 6 upon which is adapted to rest a sleeve 8 of a less length than the pipe 5, said sleeve having the upper end thereof flared, as at 9 and connected to a three pronged spider 10 and a collar 11. Adapted to fit upon the collar 11 is a sleeve 12 of a mantle bracket 13 supporting a mantle 14. The spider 10 is connected to an ornamental globe holder 15 adapted to surround the sleeve 8 and rest upon the collar 6.

The pipe 5 within the sleeve 8 is provided with a plurality of apertures 16, and the sleeve 8 is provided with oblong openings or slots 17, these slots when registering with the apertures 16 in the pipe 5 admitting additional air to the gas adapted to pass upwardly through the pipe 5 into the mantle 14. By rotating the sleeve 8 upon the pipe 5, the apertures 16 can be closed by that portion of the sleeve 8 between the longitudinal edges of the slots 17.

Having now described my invention what I claim as new, is:—

In a gas burner, the combination with a gas supply pipe, and an air mixer carried thereby, of a pipe connected to said mixer, said pipe having apertures formed therein, a collar carried by said pipe, a sleeve surrounding said pipe and adapted to be supported by said collar, said sleeve having slots formed therein adapted to register with the apertures of said pipe, and means in connection with the upper end of said sleeve and adapted to support a mantle, substantially as and for the purpose herein described.

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

JOHN DLUGOPOLSKY.

Witnesses:

C. W. HARROLD,
S. F. JOHNSON.