

No. 879,556.

PATENTED FEB. 18, 1908.

E. S. LAUHON.  
GAS BURNER.

APPLICATION FILED JUNE 14, 1907.

2 SHEETS—SHEET 1.

Fig-1-

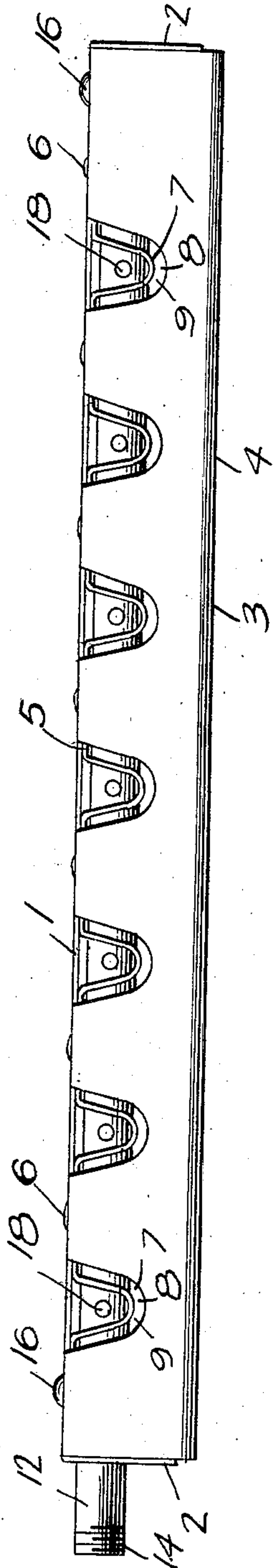
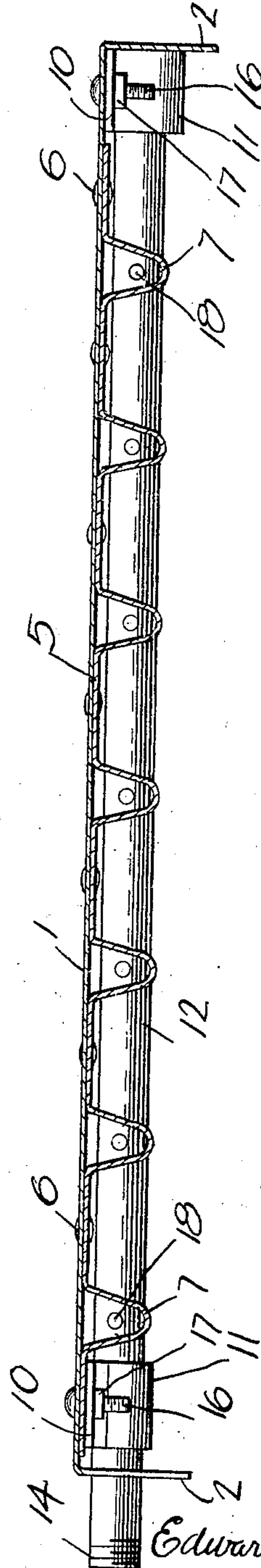


Fig-2-



Witnesses

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2 SHEETS—SHEET 2.

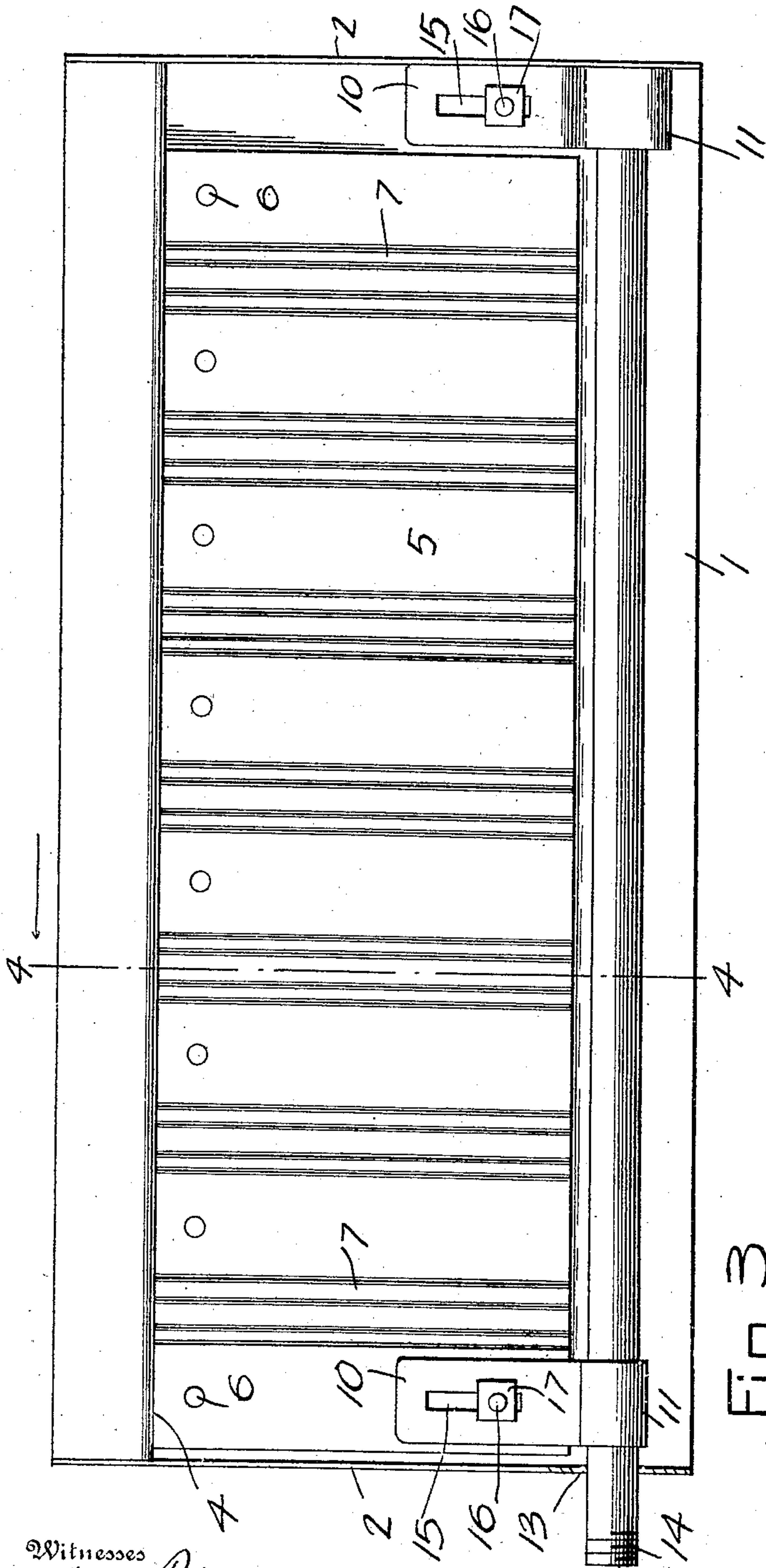


Fig. 3-

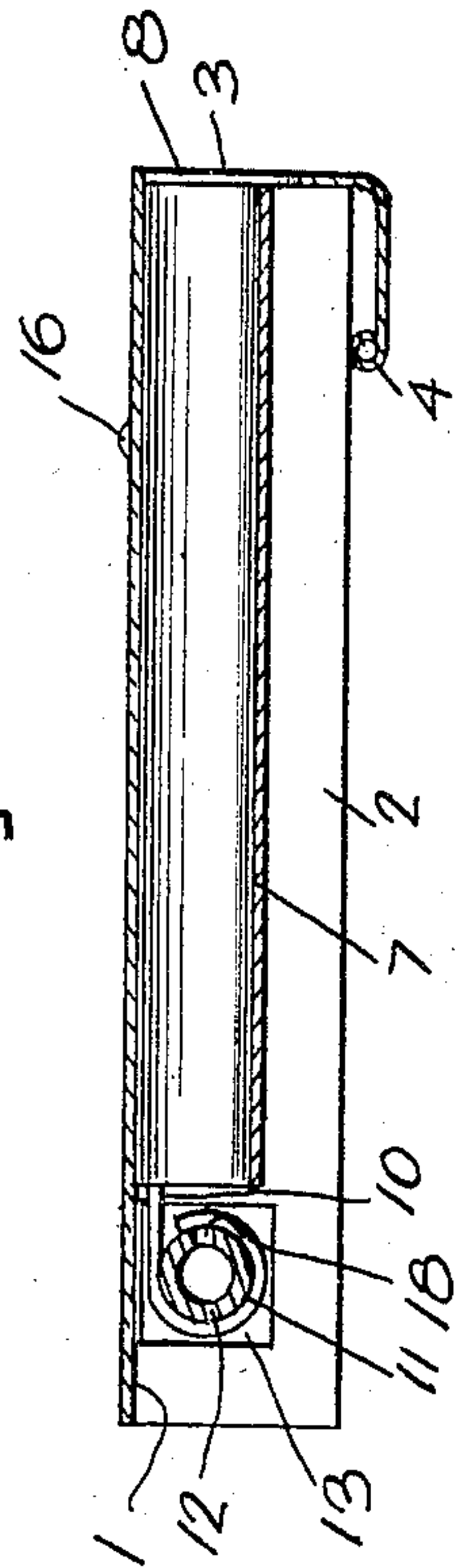


Fig. 4-

Witnesses

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# UNITED STATES PATENT OFFICE.

EDWARD S. LAUHON, OF CATLETTSBURG, KENTUCKY.

## GAS-BURNER.

No. 879,556.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed June 14, 1907. Serial No. 378,961.

*To all whom it may concern:*

Be it known that I, EDWARD S. LAUHON, a citizen of the United States, residing at Catlettsburg, in the county of Boyd, State of Kentucky, have invented certain new and useful Improvements in Gas-Burners; 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 to make and use the same.

This invention relates to new and useful improvements in gas burners and it has for its object to provide a gas burner embodying a novel construction, combination and arrangement of parts, and in which novel means are provided for regulating the amount of air supply to the burner tube.

The details of construction will appear in the course of the following description in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:

Figure 1 is a front elevation of a burner constructed in accordance with the present invention. Fig. 2 is a central longitudinal sectional view thereof. Fig. 3 is a bottom plan view thereof. Fig. 4 is a section on the line 4—4 of Fig. 3.

The invention in its practical embodiment comprises a plate 1 constructed of sheet metal and having depending sides 2 and a depending front portion 3, which, at its lower edge is rolled as at 4. A plate 5 is secured to the under face of the plate 1 by means of rivets 6, and the plate 5 is formed with deep transverse corrugations 7 which coact with the plate 1 to afford burner pipes. The corrugations 7 at their front ends communicate with openings 8 cut into the front portion 3 and of larger size than the said corrugations, whereby air spaces 9 are afforded to permit air to circulate from the space beneath the plate 5 through the front portion 3 and to mingle with the flames. Adjacent the sides 2 brackets 10 are provided, the latter being constructed with collars 11, which support a gas supply pipe 12, one end of which is projected through an enlarged opening 13 provided in one of the sides 2 and beyond said opening is threaded as at 14 for connection with a suitable main or conductor. The shanks of the brackets 10 are formed with longitudinal slots 15 and bolts 16 are thread-

ed through the plates 1 and 5 and are engaged through said slots as fastening means for the brackets 10 in which function they coöperate with jam nuts 17.

By virtue of the provision of the bolt 16 and the nut 17, the brackets 10 are longitudinally adjustable whereby the distance between the pipe 12 and the ends of the corrugations 7 may be varied to increase or diminish the air space between said pipe and said corrugations. It is noted that the pipe 12 is formed with openings 18 which register with the several corrugations 7 and through which the gas discharges into said corrugations. A burner constructed in accordance with the present invention is simple in its structural details, inexpensive to manufacture, and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but while the elements herein shown and described are well adapted to serve the functions set forth it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claims.

What is claimed is:

1. A gas burner including connected plates constructed to afford transverse burner pipes, a gas pipe arranged rearwardly of said burner pipes and longitudinally with relation to said plates, and brackets supporting said gas pipe and mounted for transverse adjustment with relation to said plates; said gas pipe having openings formed to register severally with said burner pipes.

2. A burner of the type set forth, comprising a plate formed with a depending front portion, a second plate secured to the under surface of said first plate and formed with deep transverse corrugations, and a gas pipe arranged longitudinally of said plates rearwardly of said corrugations and having openings formed to register therewith, said depending portion having openings of larger size than and formed to register with said corrugations as and for the purpose set forth.

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

EDWARD S. LAUHON.

Witnesses:

J. B. WILLIAMS,  
A. W. GRANT.