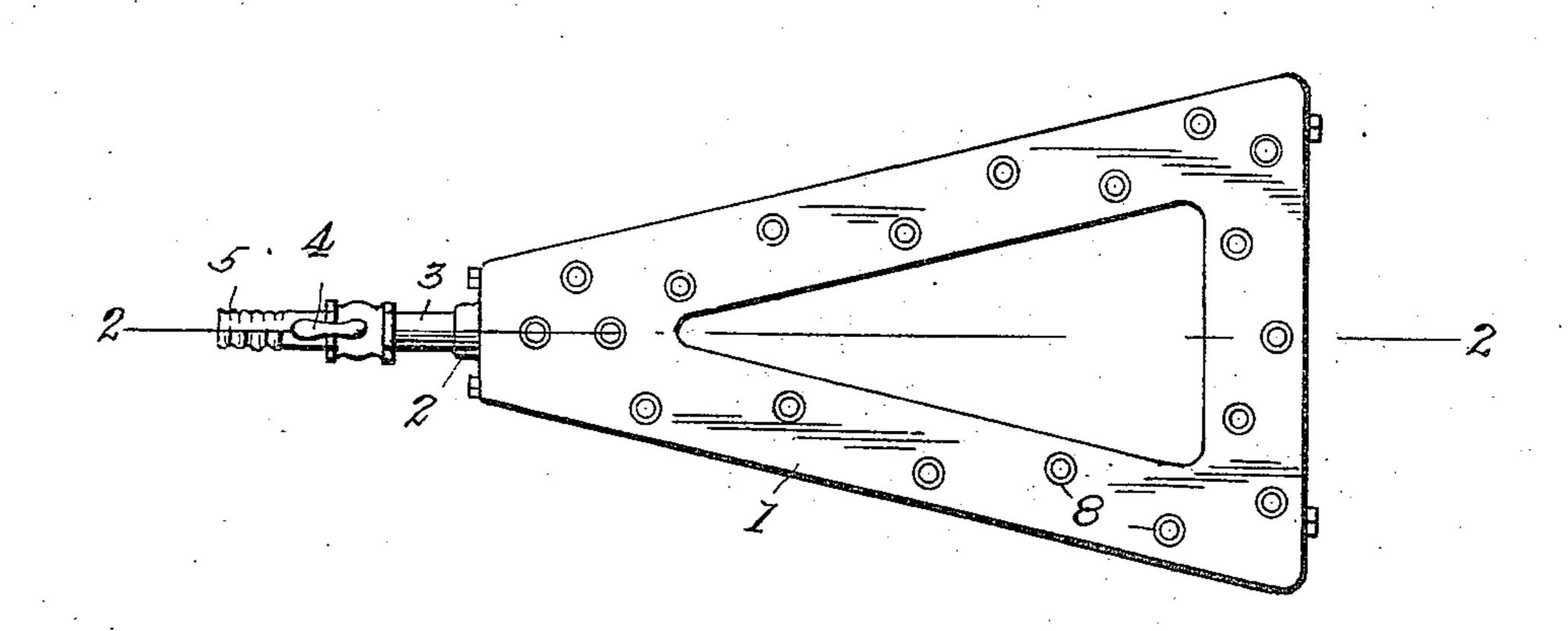
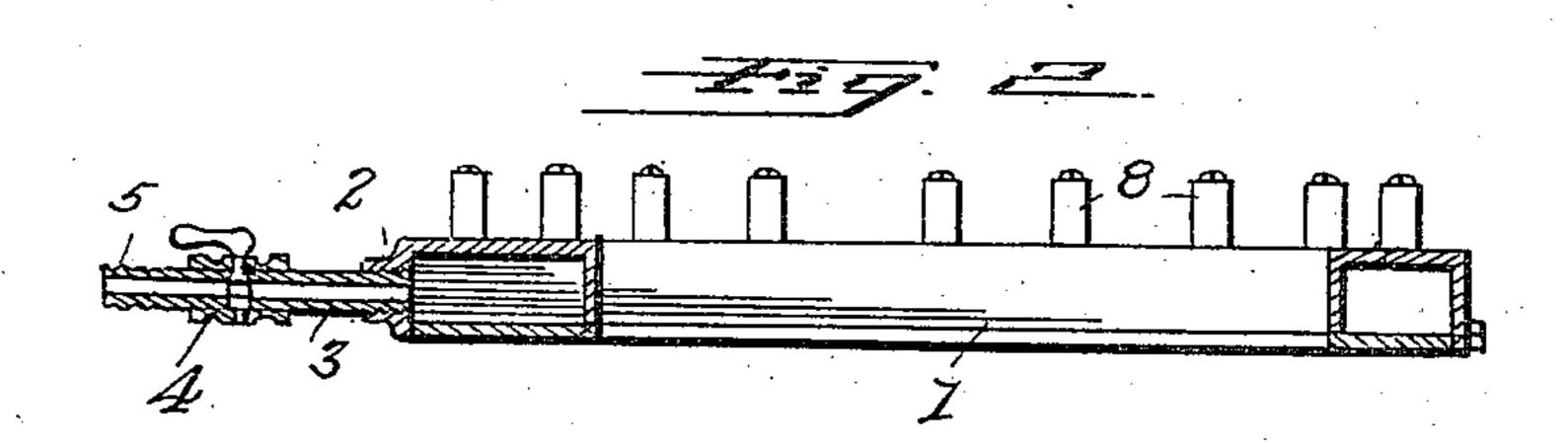
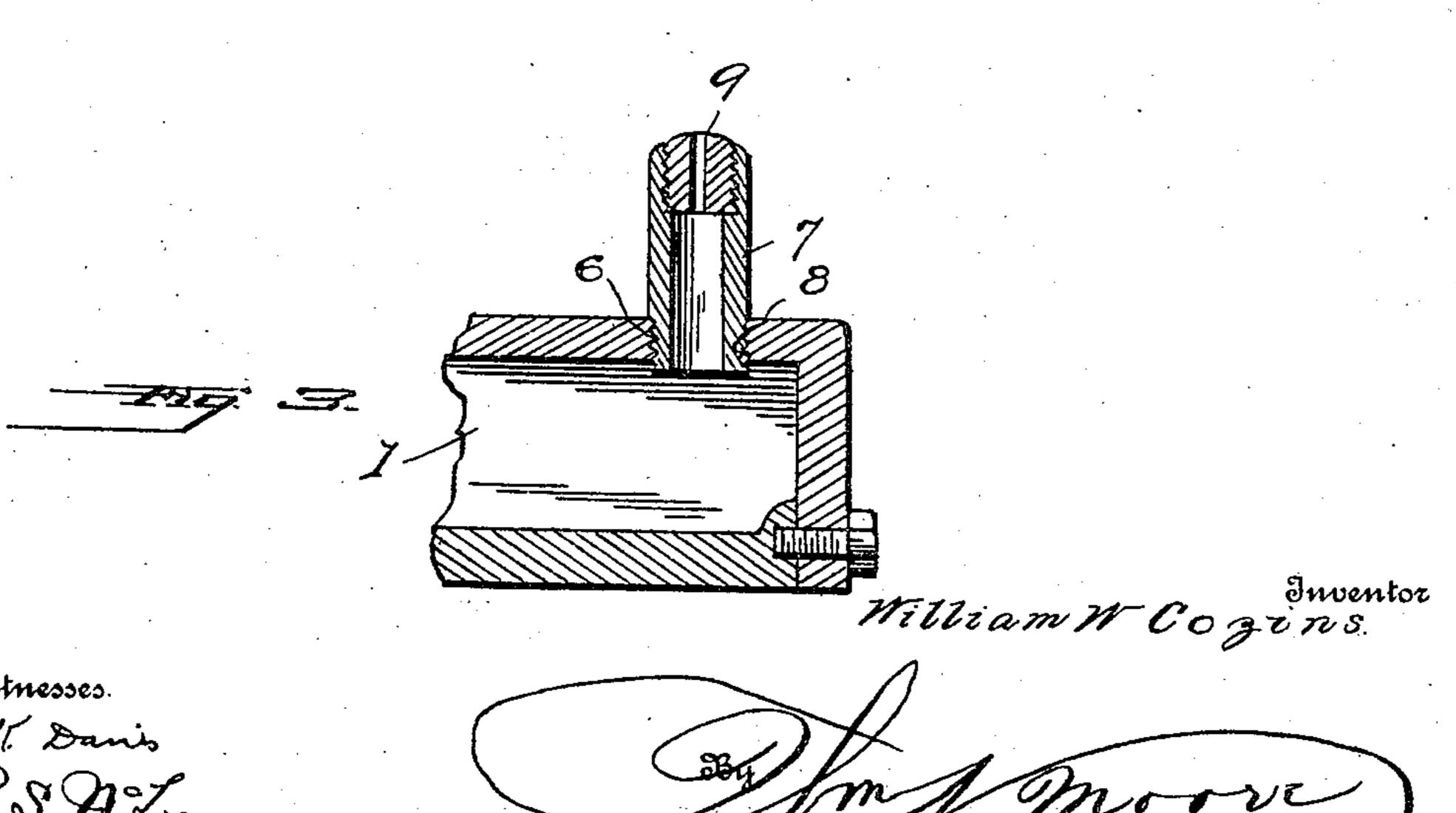
W. W. COZINS. GAS BURNER. APPLICATION FILED SEPT. 4, 1906.









UNITED STATES PATENT OFFICE.

WILLIAM WEBSTER COZINS, OF HADLEY, PENNSYLVANIA.

GAS-BURNER.

No. 848,444.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed September 4, 1906. Serial No. 333,103.

To all whom it may concern:

Be it known that I, William Webster Cozins, a citizen of the United States, residing at Hadley, in the county of Mercer and State of Pennsylvania, have invented certain new and useful Improvements in Gas-Burners, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in acetylene-gas burners, and has particular reference to the multiple-burner type used in stereopticons and moving-picture machines.

The object of my invention is the provision of a burner of compact form which will carry a large number of individual burners, but which at the same time will occupy but a comparatively small space.

Another object of the invention is to provide a burner adapted to be well supplied with air at all times, so that the combustion

of the fuel will be perfect.

With these and other objects in view my invention consists of a hollow base of such form as to allow the ready circulation of air thereabout, a gas-supply to the base, and a plurality of individual tips mounted upon said base.

The invention further consists of a gasburner embodying certain other novel features of construction, combination, and arrangement of parts, substantially as disclosed therein.

Figure 1 is a top plan view of my improved burner. Fig. 2 is a longitudinal sectional view thereof on the line 2 2 of Fig. 1. Fig. 3 is a detail sectional view of the base and one of the tips or individual burners mounted thereon.

In the drawings, the numeral 1 designates the hollow base or chamber, preferably constructed of metal. I have shown this base as in the form of a triangle, so as to provide an open space in the center to allow for the ready circulation of the air around the base;

but the said base could be made in any other

form, such as circular or rectangular, to suit different circumstances. In one side of the base, which in the present instance is the apex to the triangle, an interiorly-threaded neck or 50 extension 2 is provided, within which is screwed the pipe-coupling 3. Mounted upon the coupling is a valve or cock 4 to control the passage of gas to the chamber, and a sleeve 5 is carried by the valve for connection to the 55 source of supply. The upper face of the hollow base is provided with a series of spaced and threaded openings 6 for the reception of the tubes 7, having the lower threaded ends 8. In the upper ends of the tubes are 60 threaded or otherwise secured the burnertips 9, which are made of lava or other suitable material. These tips are not necessarily threaded, but may be frictionally secured in the tubes. By constructing a burner in 65 this manner a large degree of heat and light may be produced in a comparatively small space, and as free circulation of air through and around the burner is provided for the proper mixture for perfect combustion is al- 70 ways assured.

From the above description, taken in connection with the drawings, it will be evident that I have accomplished all the objects herein set forth and have produced an acety-75 lene-gas burner which is of simple durable construction and is thoroughly practical and

efficient.

I claim—

An acetylene-gas burner comprising a tri- 8c angular gas-chamber having a central opening therethrough, an inlet and valve at the apex of the triangular chamber, and burner-tubes mounted in staggered series on the chamber and having threaded engagement 85 therewith.

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

WILLIAM WEBSTER COZINS.

Witnesses:

DE ETTA SHAW, Q. J. BURNETT.