

A. W. WILKINSON.

Oxy-Hydrogen Gas Fixtures.

No. 123,535.

Patented Feb. 6, 1872.

Fig. 1.

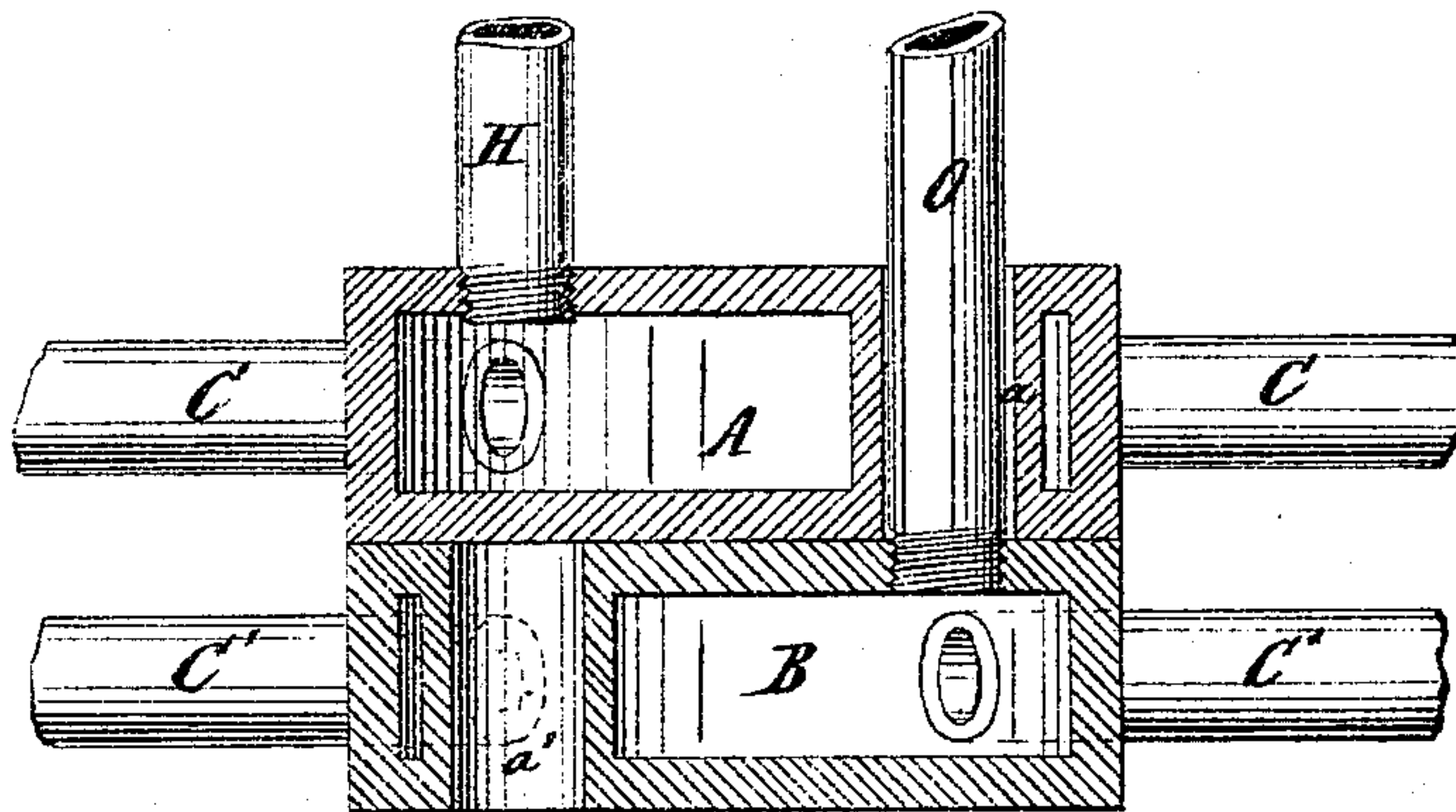
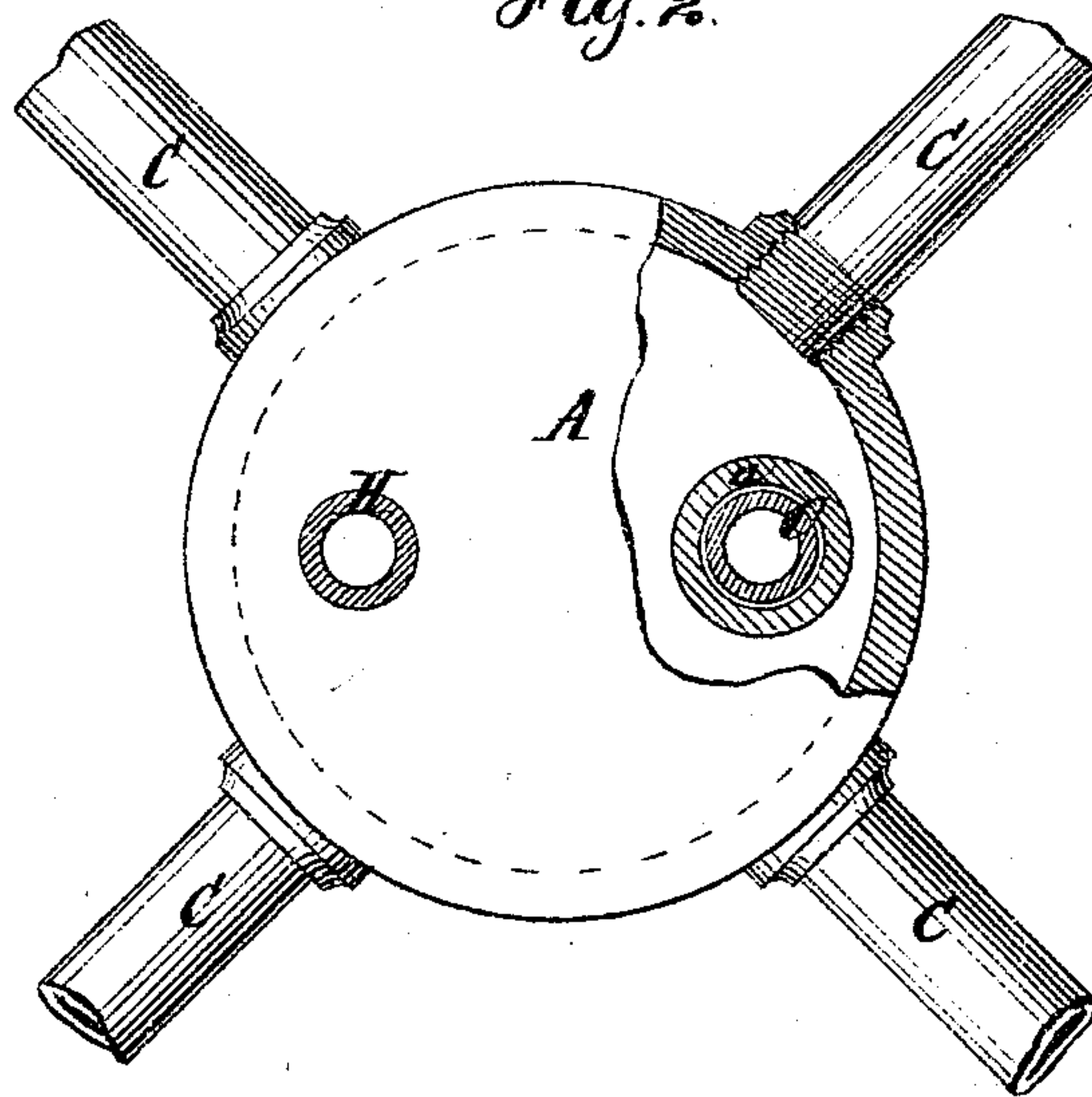


Fig. 2.



Witnesses.
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IMPROVEMENT IN OXYHYDROGEN GAS-FIXTURES.

Specification forming part of Letters Patent No. 123,535, dated February 6, 1872.

To all whom it may concern:

Be it known that I, ASA W. WILKINSON, of the city, county, and State of New York, have invented a new and useful Improvement in Oxyhydrogen Gas-Fixtures; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a vertical central section of my invention. Fig. 2 is a sectional plan or top view of the same.

Similar letters indicate corresponding parts.

This invention consists in the arrangement of two detached chambers, one placed above the other, the upper chamber being provided with a socket or nipple to receive a pipe which connects with a reservoir containing hydrogen or other combustible gas, and with a channel passing clear through it for the passage of a pipe which screws in a socket or on a nipple of the lower chamber, and which connects with a reservoir containing oxygen, each of said chambers being also provided with four (more or less) radiating-pipes, extending therefrom in pairs in such a manner that, by placing the two chambers in the center of a chandelier or gas-fixture, the pipes connecting them with the gas-reservoir can be readily concealed in the vertical stem of the fixture, while the pipes radiating from said chambers are in a convenient position for their connection with a stop-cock and burner, which I have constructed for this purpose, and at the same time said radiating-pipes will readily be concealed in the arms of the chandelier or gas-fixture.

In the drawing, the letters A B designate two chambers, which are, by preference, made round and precisely of the same size and shape, so that they can be cast from the same pattern. These two chambers are placed one on the top of the other, and the upper cham-

ber A connects, by a pipe, H, with a reservoir containing hydrogen or carbureted hydrogen, while the lower chamber, B, connects, by a pipe, O, with a reservoir containing oxygen. The pipe H screws either in a socket provided in or on a nipple projecting from the chamber A, while the pipe O passes through a channel, *a*, which extends clear through the chamber A, and is connected to the chamber B in any desirable manner—by preference, in the same manner in which the pipe H is connected to the chamber A.

By referring to Fig. 1 of the drawing, it will be seen that the chamber B is also provided with a channel, *a'*, and, if desired, the chamber A can be tapped at the bottom, and a pipe run through the channel *a'* to a second pair of chambers, if it is desired to construct a chandelier with two or more series of radiating-arms one above the other.

From the chambers A B extend the radiating-pipes C C', the pipes C' of the chamber B being situated just below and in line with the pipes C of the chamber A, so that the same can be connected with a stop-cock and burner of suitable construction, without difficulty. I have constructed a stop-cock and burner for this purpose; but these devices form the subjects of separate applications for patents, and I will not describe them here.

What I claim as new, and desire to secure by Letters Patent, is—

The arrangement of two chambers, A B, one placed above the other, and each of the chambers being provided with a series of radiating-pipes, (two or more,) in combination with pipes O H, connected to said chambers substantially in the manner and for the purpose herein shown and described.

A. W. WILKINSON.

Witnesses:

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