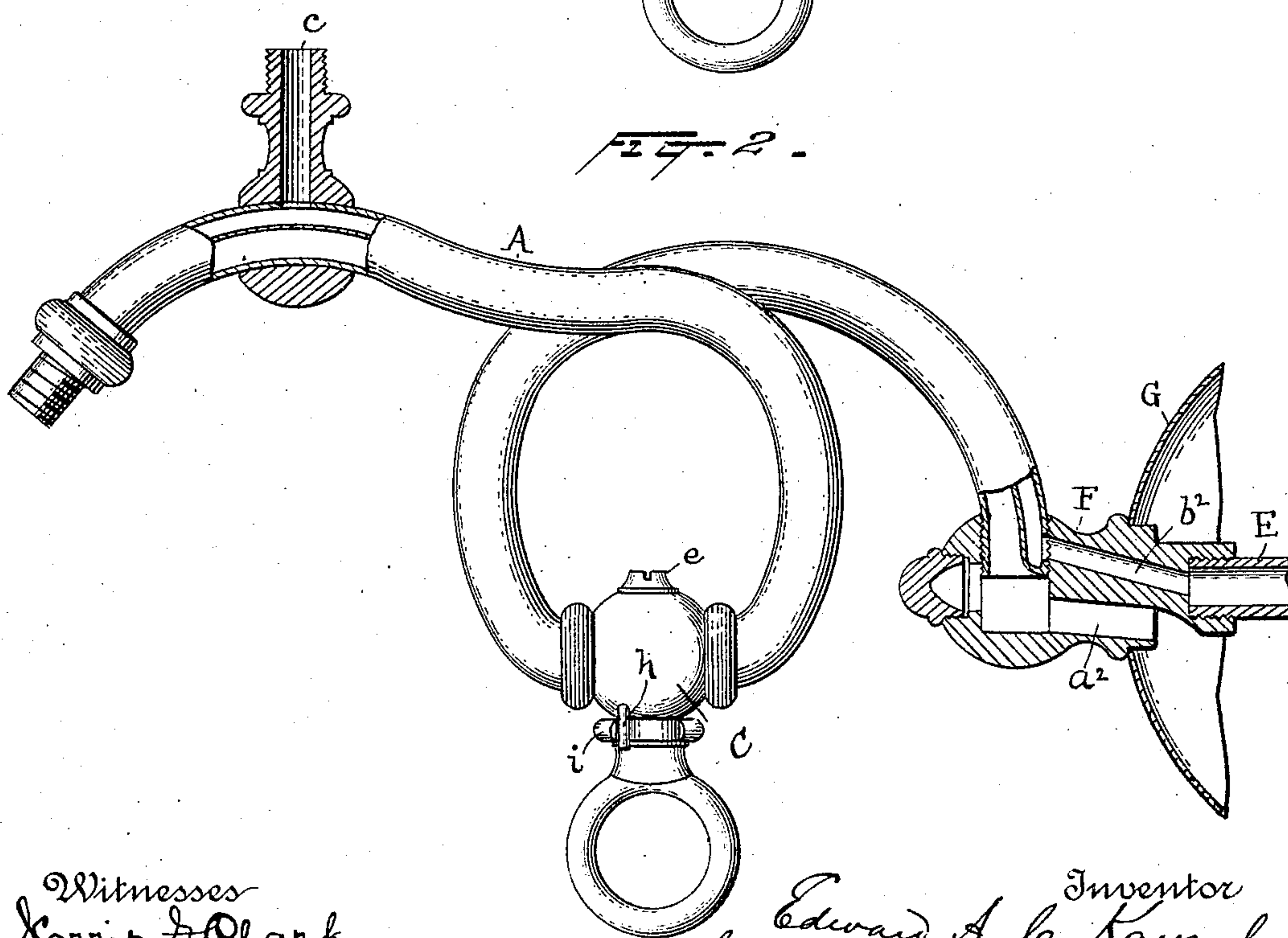
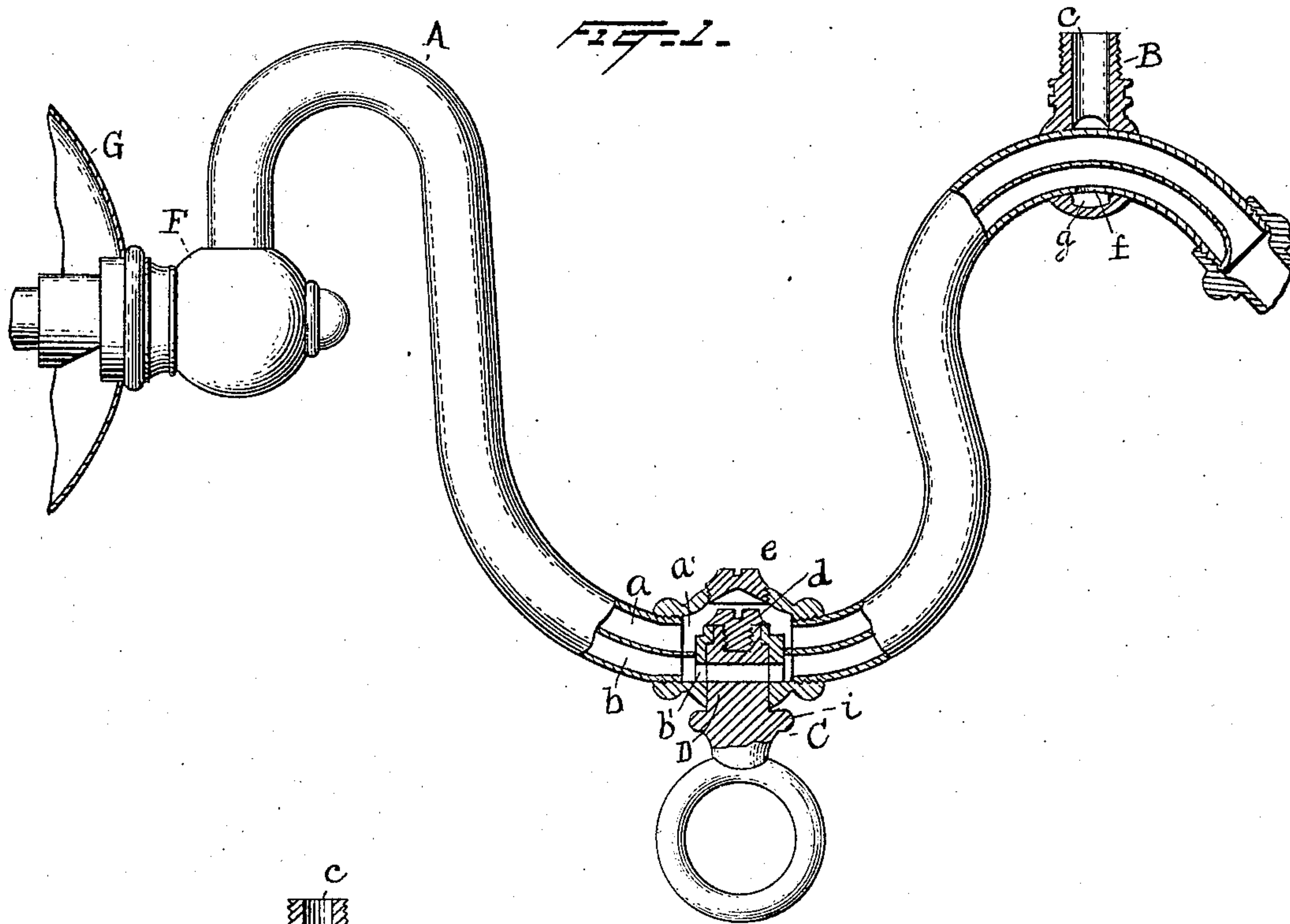


(No Model.)

E. A. C. KAYSEL.  
GAS FIXTURE.

No. 574,907.

Patented Jan. 12, 1897.



Witnesses  
Norris H. Clark.  
John R. Taylor.

Inventor  
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# UNITED STATES PATENT OFFICE.

EDWARD A. C. KAYSEL, OF NEW YORK, N. Y., ASSIGNOR TO THE MITCHELL-VANCE COMPANY, OF SAME PLACE.

## GAS-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 574,907, dated January 12, 1897.

Application filed June 24, 1896. Serial No. 596,684. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD A. C. KAYSEL, a citizen of the United States, residing at New York city, in the county and State of New York, have invented a certain new and useful Improvement in Gas-Fixtures, of which the following is a specification.

My invention relates to an improvement in combination gas and electric fixtures and such fixtures where it is desirable to have, besides the gasway, another passage-way through the same pipe in which to place wires for electric lamps, gas-lighting devices, &c.

By my invention I have made it possible to carry the wires in the same pipe with the gas, safely maintaining the necessary insulation of the wires, while controlling the gas in the way usual in simple gas-fixtures.

Referring to the drawings, where similar letters indicate similar parts, Figure 1 is a view of an arm, either of a chandelier or a bracket, provided with both gas and electrical connections, parts being shown in section. Fig. 2 shows a modification of such arm with sections of the gas-jet and connection with the main pipe and a view of the form of gas-cock claimed herein.

The arm A is made of combination-pipe, well-known to the gas-fixture trade, having two passages *a* and *b*, the lower one of which, *b*, serves as the gasway from the main pipe to the jet B. The cock C, which controls said gasway, is placed on the arm between the main pipe and the jet instead of being placed upon the jet controlling the way *c*, as heretofore. This arrangement, besides making a more ornamental fixture, puts the gas-controlling device in a very much more convenient position, allowing the thumb-piece of the cock to extend downward instead of off to the side, as has been the necessary construction heretofore. The cock C is arranged to control the gasway only and to leave the passage *a* open and uninterrupted. In order to do this and to place the cock in convenient position, as well as to insure there being no leakage of gas, it is necessary to have the pipe A arranged so that the gasway *b* shall enter the main body of the cock C below the wire-conduit *a*. The two portions of the arm A screw into the main body C of the cock. This main

body is cast or bored so that it shall have a large open way *a'* extending through it to form a continuation of the pipe-conduit *a* through the body of the cock. The lower portion of C is solid, except for a small aperture *b'*, communicating with the gasway *b*, and which is controlled by the plug D of the cock in well-known manner. This plug extends up through the solid portion of C and is held in place by a screw *d*, whose shoulders abut on such solid portion. This screw, it will be seen, is in the interior of the cock, with a free open space above it for the passage of the wires. Heretofore the plug D has extended entirely through the pipe, being secured by a screw in position of the dummy-screw *e* shown in the drawings, and here used merely to gain access to the screw *d*. In order to make connection between the gasway *b* and the jet-pipe *c*, it is necessary to make an aperture *f* in the lower part of the pipe A, such aperture being covered by the body of the jet B, a groove *g* in such body encircling the pipe A, connecting said aperture *f* with the jet-pipe *c*. The gasway *b* is sealed by solder or in other suitable manner at a point beyond the jet.

In the modification shown in Fig. 2 there is no necessity for the groove *g* in the main body of the jet-pipe, since the turn given to the pipe A serves to bring the gasway below the pipe-conduit at the point where the cock is placed, and above such pipe-conduit at the point where the jet is placed, where nothing more is necessary than the usual aperture through the pipe A from the gasway into the jet-pipe. The movement of the plug may be limited in its open and closed positions by a pin *h*, carried on the body of the cock and working in a recess *i*, cut in a flange on the plug, as shown in Fig. 2, or in any other appropriate way.

The arm A is connected to the main pipe E, or to the distributing-body in the case of a chandelier, through a suitable connection F, having a way *b<sup>2</sup>* therein to conduct the gas from said main pipe to the gasway *b* and a way *a<sup>2</sup>* to connect the pipe-conduit *a* with the interior of the ornamental casing of the bracket or chandelier, from whence the wires are led away to form proper electrical connections, being concealed from view by the



ordinary methods. The ornamental casing G fits onto a shoulder of F in such position that the wires issuing from  $b^2$  cannot possibly be cut by the sharp edges of the casing. The insulated wires entering such arm are passed through  $b^2$  into the conduit  $b$ , where they lie safe from fear of abrasion. At the point where the gas-cock is placed the wires pass straight through the large opening provided for them, made in the main body of said cock, lying over the screw  $d$ . When the parts of the arm are put together, solder is run along the threading of the screws, as is usual, to close all joints and make the arm gas-tight.

What I claim is--

1. In a fixture, the combination with a gas and electrical connection, of a pipe-arm having two adjacent parallel ways therein; one a gasway and the other a conduit for wires, said conduit being above the gasway at the main pipe connection, a gas-cock having two ways therein corresponding and registering with the ways of said pipe-arm, and a plug in said gas-cock extending into the gasway only, substantially as set forth.

2. In a fixture, the combination with a gas and electrical connection, of a pipe-arm having two adjacent parallel ways therein, one

a gasway and the other a conduit for wires, said conduit being above the gasway at the main pipe connection, a gas-cock having two ways therein corresponding and registering with the ways of said pipe-arm, a plug in said gas-cock extending into the gasway only, and entirely clear of the conduit and a dummy-screw in the conduit above said plug, substantially as set forth.

3. In a fixture, the combination with a gas and electrical connection, of a pipe-arm having two adjacent parallel ways therein, one a gasway and the other a conduit for wires, said conduit being above the gasway at the main pipe connection, a gas-cock having two ways therein corresponding and registering with the ways of said pipe-arm, a plug in said gas-cock extending into the gasway only, and a jet-body having a groove and jet-pipe, said groove communicating with the gasway, substantially as set forth.

This specification signed and witnessed this 23d day of June, 1896.

EDWARD A. C. KAYSEL.

Witnesses:

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