

(No Model.)

J. C. CASSIDY.

COMBINED GAS AND ELECTRIC LIGHT FIXTURE.

No. 399,497.

Patented Mar. 12, 1889.

Fig. 1.

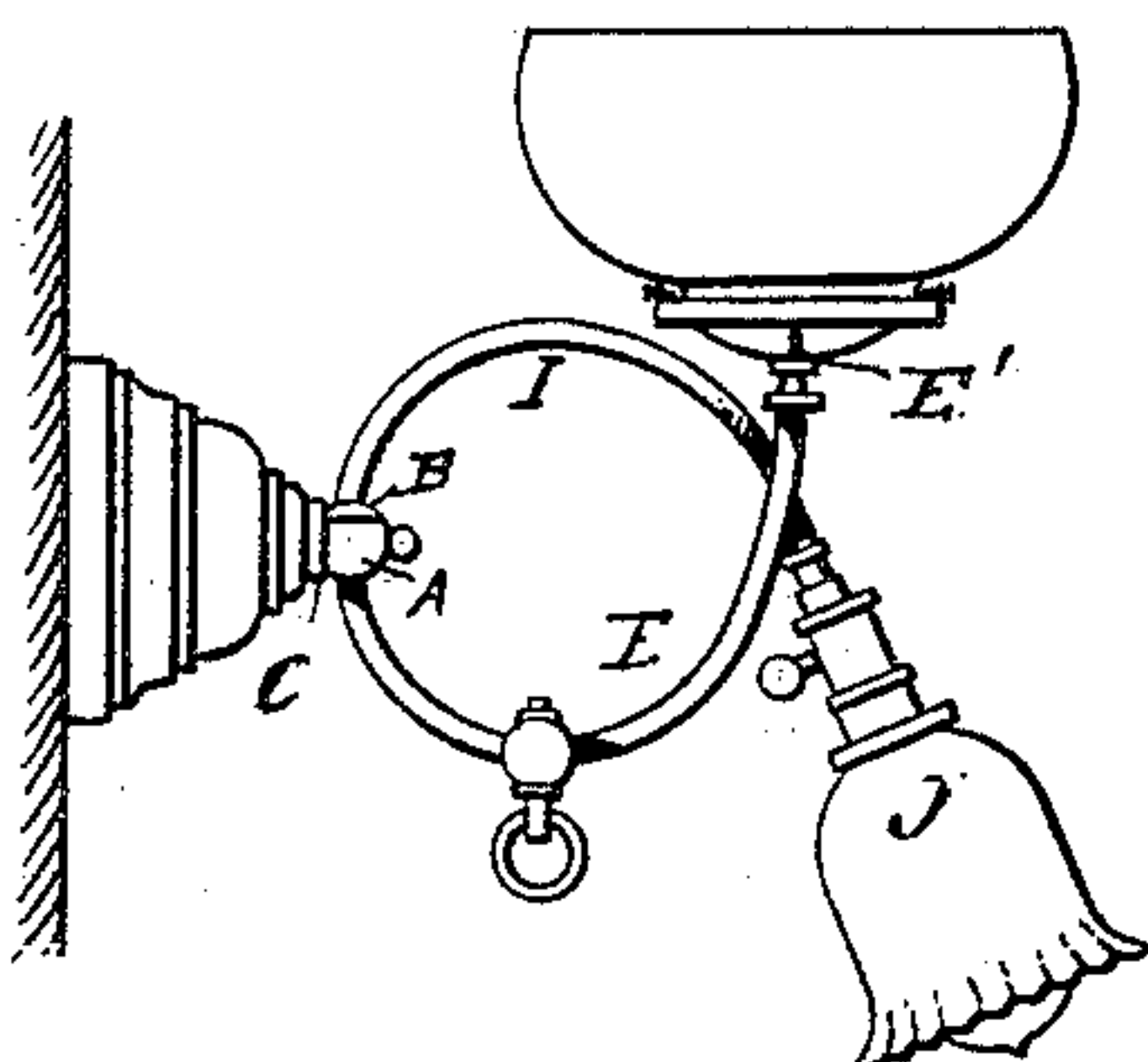


Fig. 2.

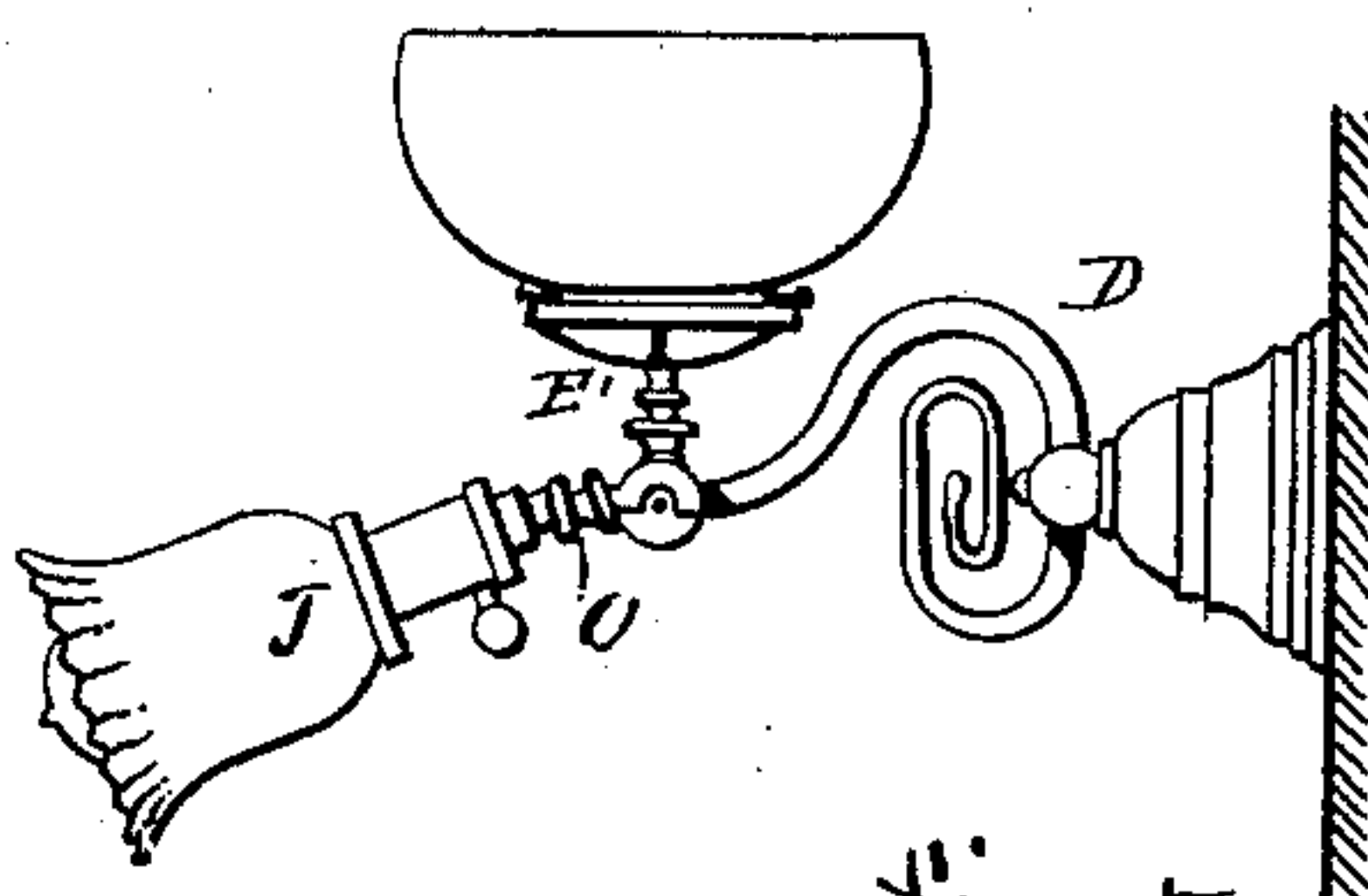


Fig. 3.

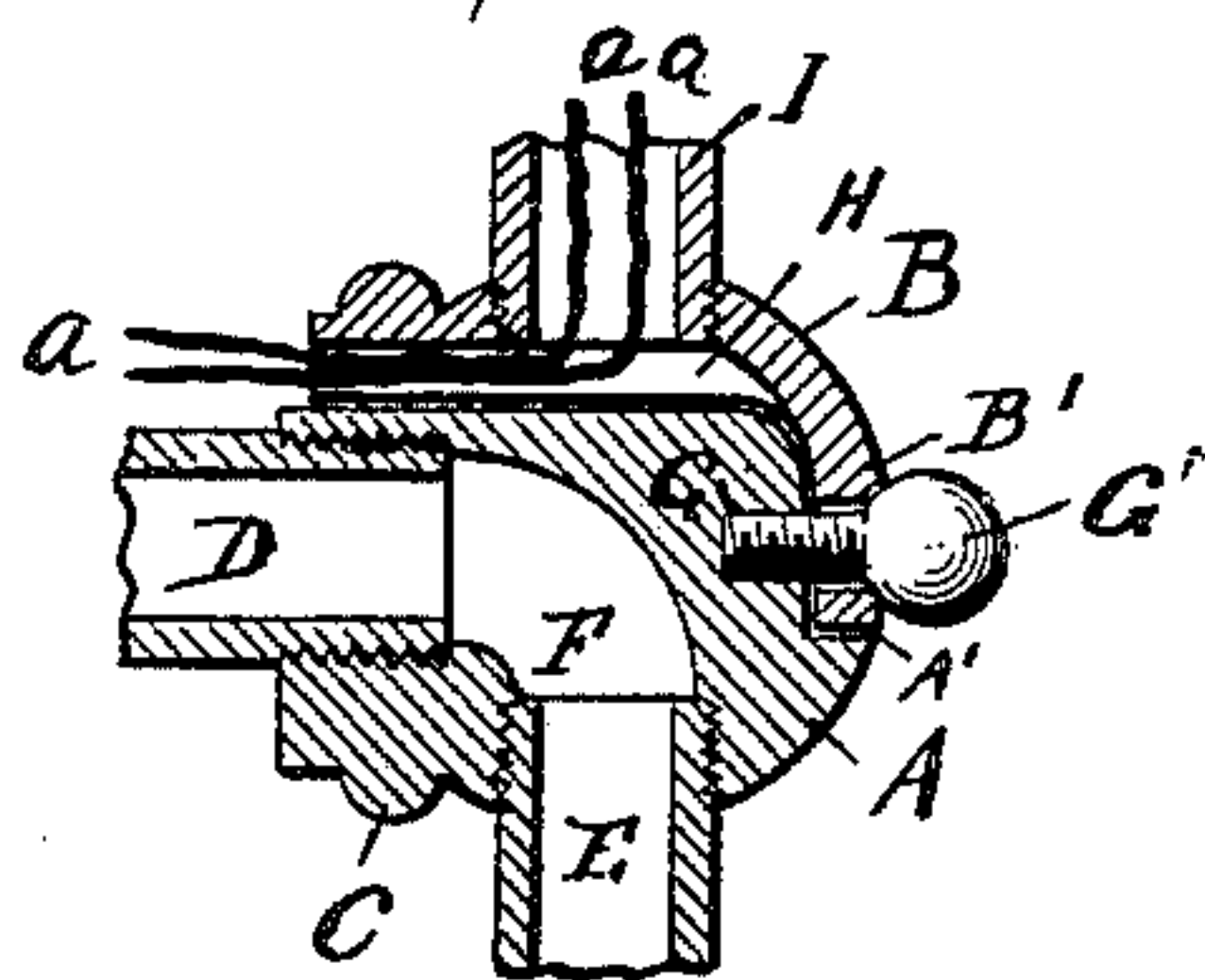


Fig. 4.

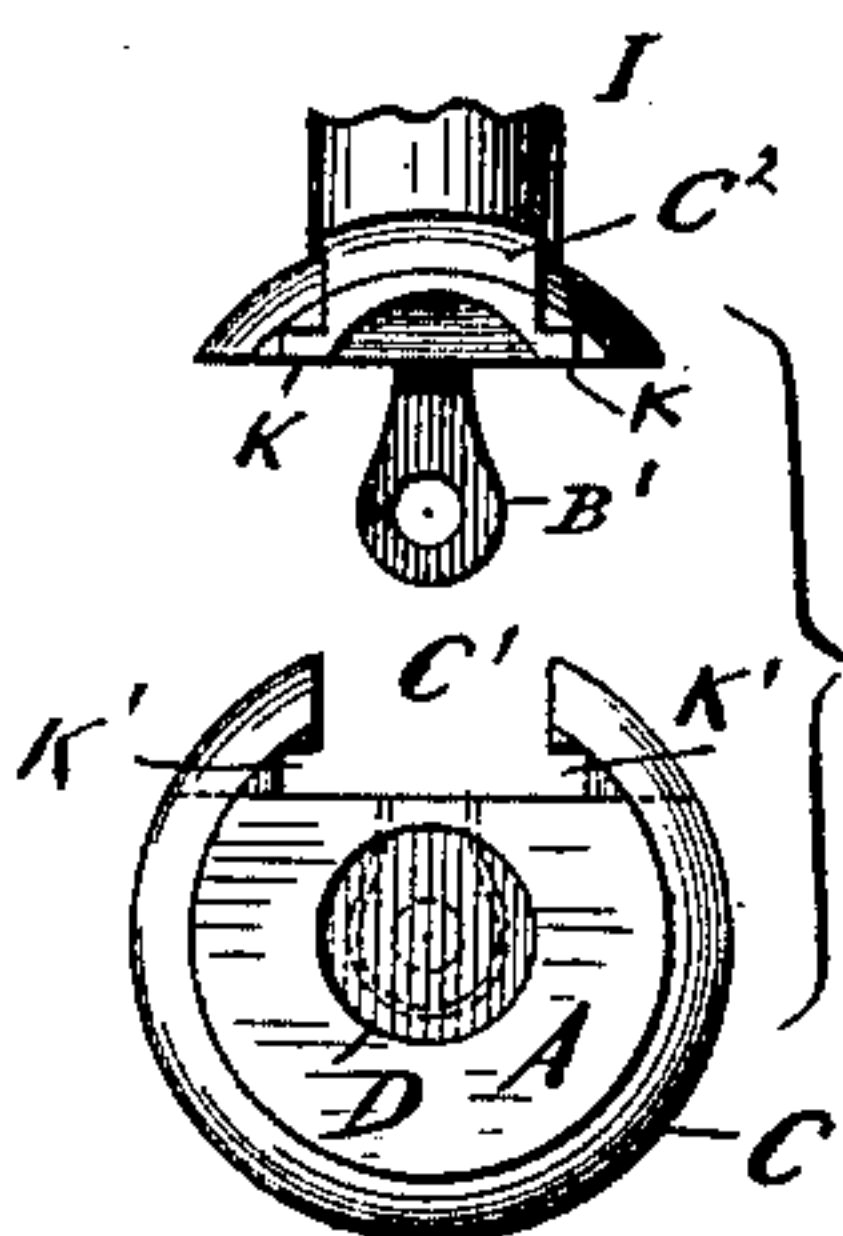


Fig. 5.

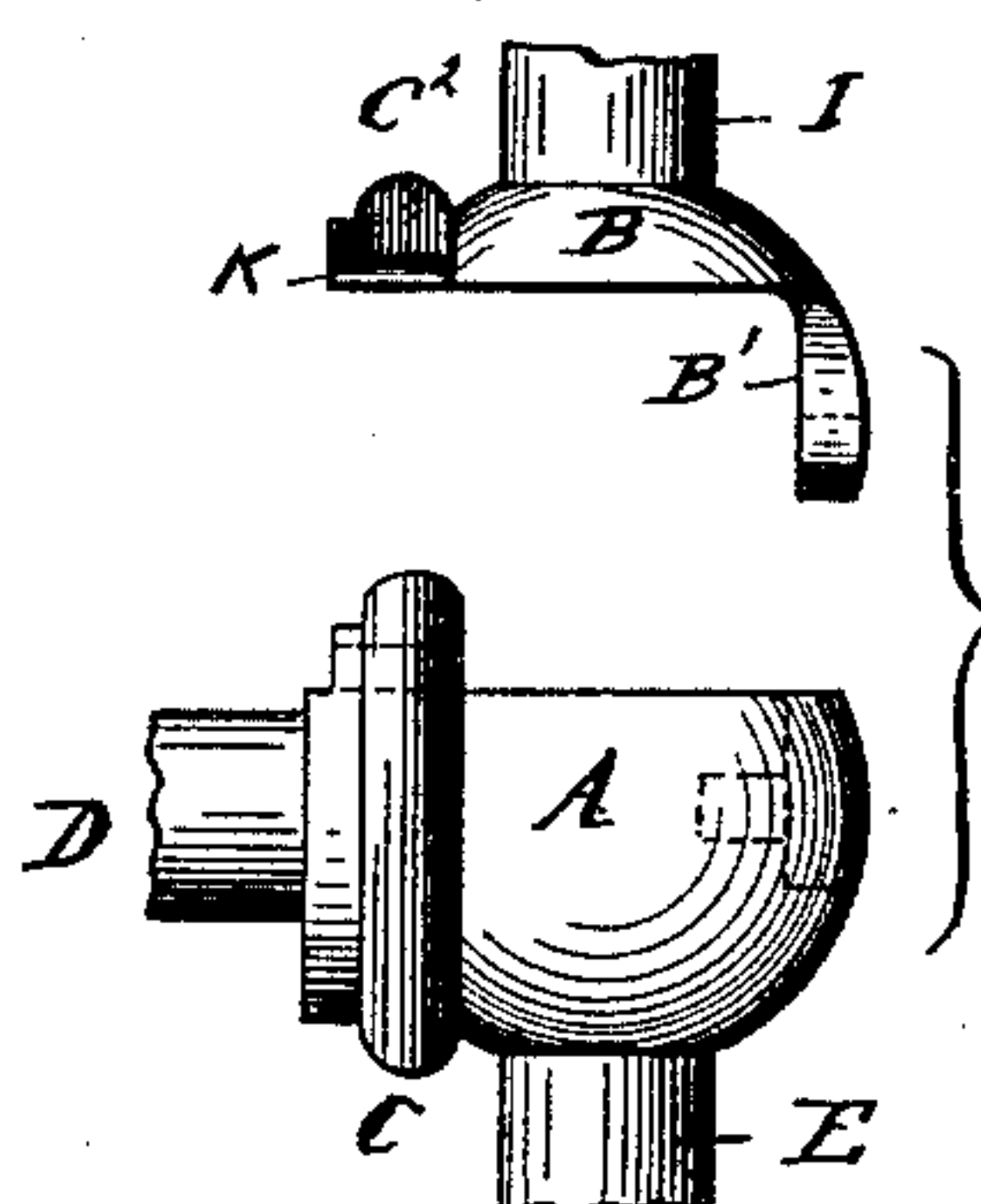


Fig. 6.

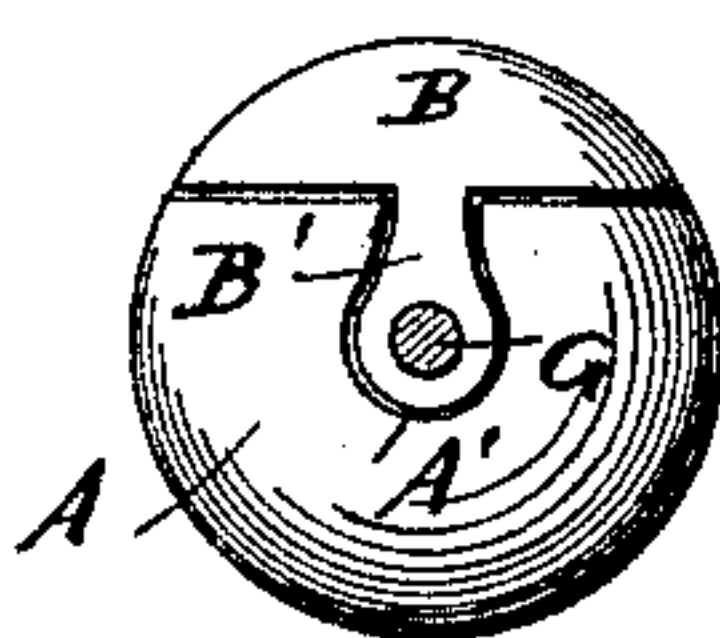


Fig. 7.

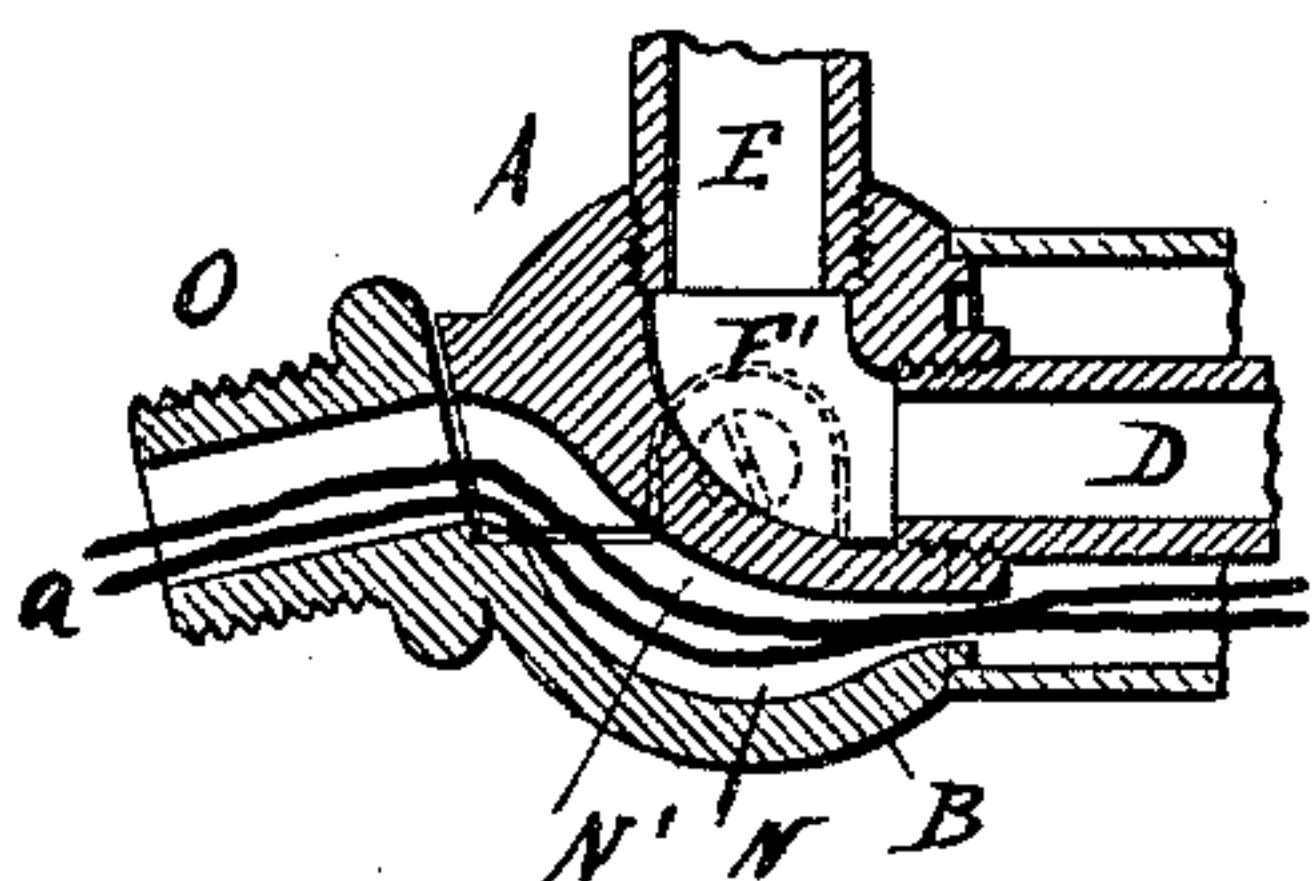


Fig. 8.

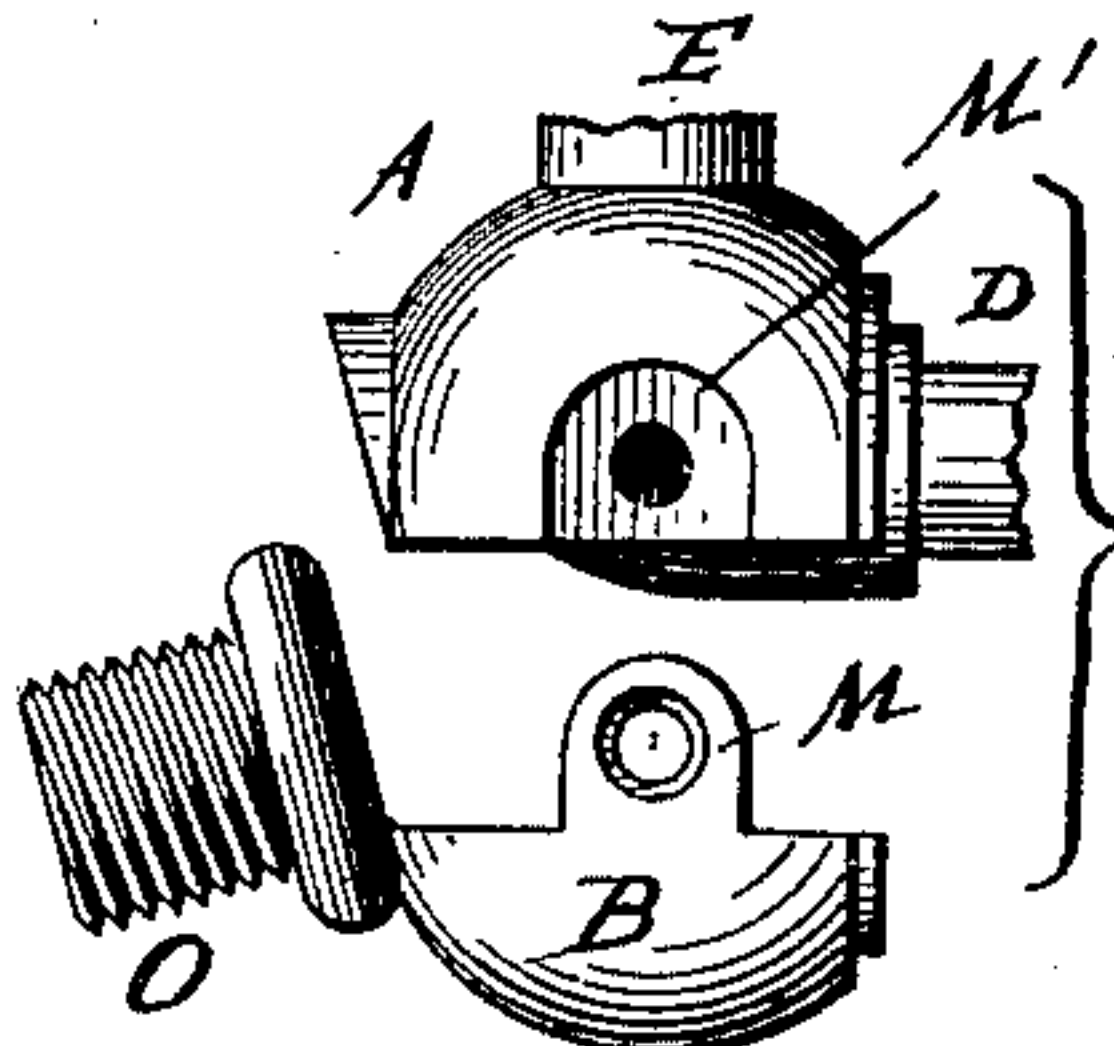
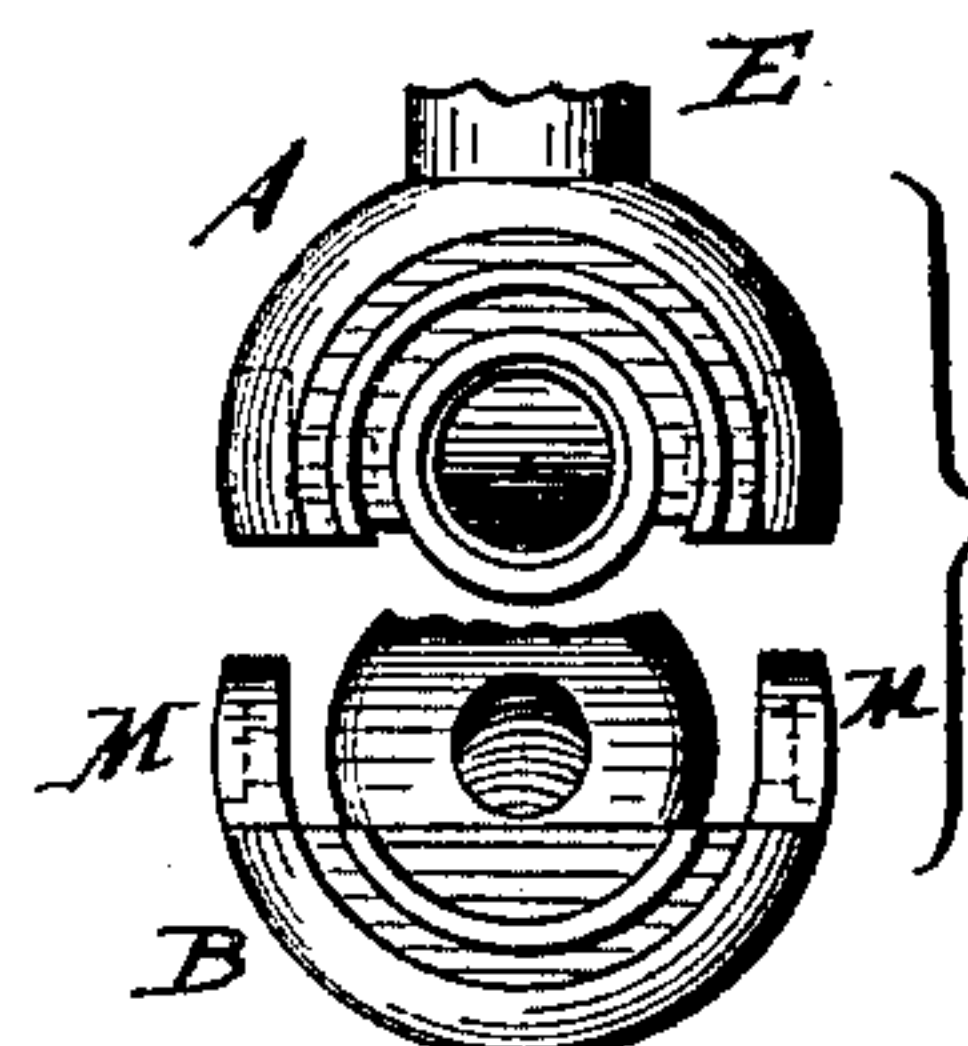


Fig. 9.



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JOHN C. CASSIDY, OF EAST ORANGE, NEW JERSEY.

COMBINED GAS AND ELECTRIC LIGHT FIXTURE.

SPECIFICATION forming part of Letters Patent No. 399,497, dated March 12, 1889.

Application filed January 3, 1889. Serial No. 295,346. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. CASSIDY, of East Orange, in the county of Essex and State of New Jersey, a citizen of the United States, have invented certain new and useful Improvements in Combined Gas and Electric Light Arms, of which the following is a specification.

This invention relates to improvements in gas-arms for brackets or chandeliers which are combined with means for attaching an incandescent electric lamp.

The object of my invention is to facilitate applying the electric conductors to the gas-arm and connecting that part of the arm containing the electric wires with the gas-conducting part.

The invention consists in the construction and combination of parts and details, as will be fully described hereinafter, and finally be pointed out in the claim.

In the accompanying drawings, Figure 1 is a side view of my improved combined gas and electric light arm. Fig. 2 is a side view of the same, showing a modified construction. Fig. 3 is an enlarged vertical transverse sectional view of the coupling used in the construction shown in Fig. 1. Fig. 4 is a rear view of the same, the parts being detached. Fig. 5 is a side view, the parts being detached. Fig. 6 is a front view of the same, the parts being united and the screw being in section. Fig. 7 is a vertical longitudinal sectional view of the coupling shown in the construction Fig. 2. Fig. 8 is a side view of the same, parts being disconnected. Fig. 9 is a rear view of the same, parts being detached.

Similar letters of reference indicate corresponding parts.

The coupling shown in Figs. 1, 3, 4, 5, and 7 is composed of two sections, A and B, the outer surface of which has the appearance of a ball or part of a ball projecting from a ring, C, the greater part of which ring is formed on the rear end of the section A and the smaller part on the rear end of the section B. The section A is provided in its bottom and rear end with apertures, into which the pipes D and E, respectively, are screwed, the ends of said pipes being connected by a curved duct, F, in the section A. The pipe

D serves to conduct the gas from the supply-pipe, and the pipe E, which may be of any desired shape, carries the gas-burner E'. The section A is provided in its front with a recess, A', adapted to receive a lug, B', fitting snugly therein and projecting downward from the front of the upper section, B, so that when the parts are united the outer face of the lug B' is flush with the face of the section A. A screw, G, having an ornamental or other head, G', is passed through an aperture in the lug B' and screwed into a screw-threaded aperture in the back of the recess A', said screw serving to hold the two sections A and B together. The section B is provided in its under side with a recess, so that when the two sections are united a cavity, H, is formed between the under side of the section B and the top of the section A, through which cavity the electric wires *a* can pass, which wires pass into the inner end of the pipe or tube I, screwed into a threaded aperture in the top of the section B, the incandescent electric lamp J being attached to the opposite end of said tube I. Part of the flat top of the section A and part of the ring C is cut out to form the cavity C', through which the wires *a* pass, the section B being provided at its rear end with a piece, C², fitting in said recess and closing the same. The section B is also provided at its rear end with lugs K, which pass into notches K' at the ends of the recess C' of the section A.

The section A of the coupling is screwed and secured on the gas-pipe D in the usual manner, and the wires *a* are drawn through the tube I, said wires being passed through the recess C' in the ring C. The section B is placed on the section A, the lugs K passing into the notches K', the piece C² passing into the recess C', and the lug B' passing into the recess A'. The two sections are then united with the screw G'.

In the construction shown in Figs. 2, 7, 8, and 9 the gas-supply pipe D is screwed into the rear end of the section A', and the burner pipe or tube E is screwed into an opening in the top of said section A, the connecting-duct F' being curved upward in this case, whereas it is curved downward in the construction shown in Figs. 1 to 6. The section B has a

lug, M, in each side *m*, which lugs pass into recesses M' in the sides of the section A, and screws are then passed through said lugs M into apertures in the backs of the recesses M'.

5 The section B is provided with a recess, N, in its upper side, so that between the upper surface of the section B and the under surface of the section A a cavity, N', is formed, through which the wires can be passed.

10 The neck O is provided on the front end of the section B, and on said neck the electric lamp or a tube is screwed, through which the wires *a* pass.

In both constructions, which are practically 15 the same, the outer appearance of the coupling is that of one complete body, as the sections are finished at the edges, so as not to show any breaks or offsets. The gas-arm can be screwed and secured to the gas-conducting 20 pipe, and when the same is in place the electric attachment can easily be applied by simply placing it against that part of the coup-

ling forming part of the gas-conductor and then securing it in place by means of a screw or screws. 25

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a coupling for combined gas and electric light arms, the combination of the section A, connected with the gas-conducting tube, with 30 the section B, connected with an electric-light-wire connecting-tube, said section B being provided in its inner surface with a recess forming a passage for the electric-light wires between the two sections, substantially as set 35 forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOHN C. CASSIDY.

Witnesses:

OSCAR F. GUNZ,

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