

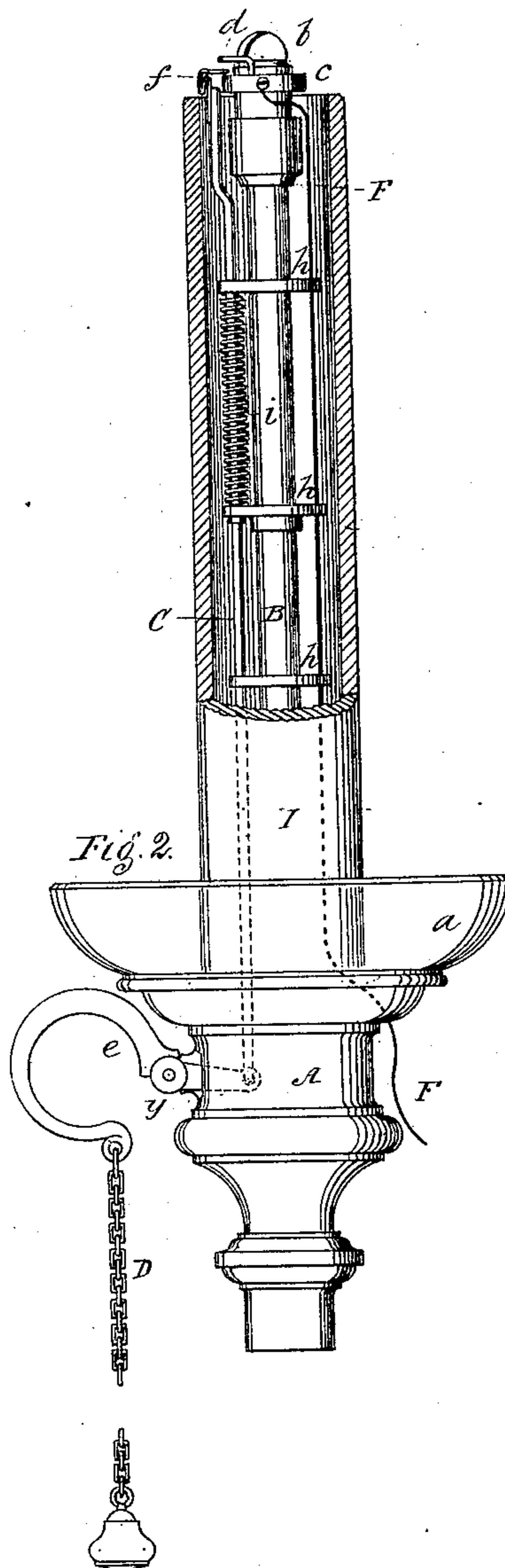
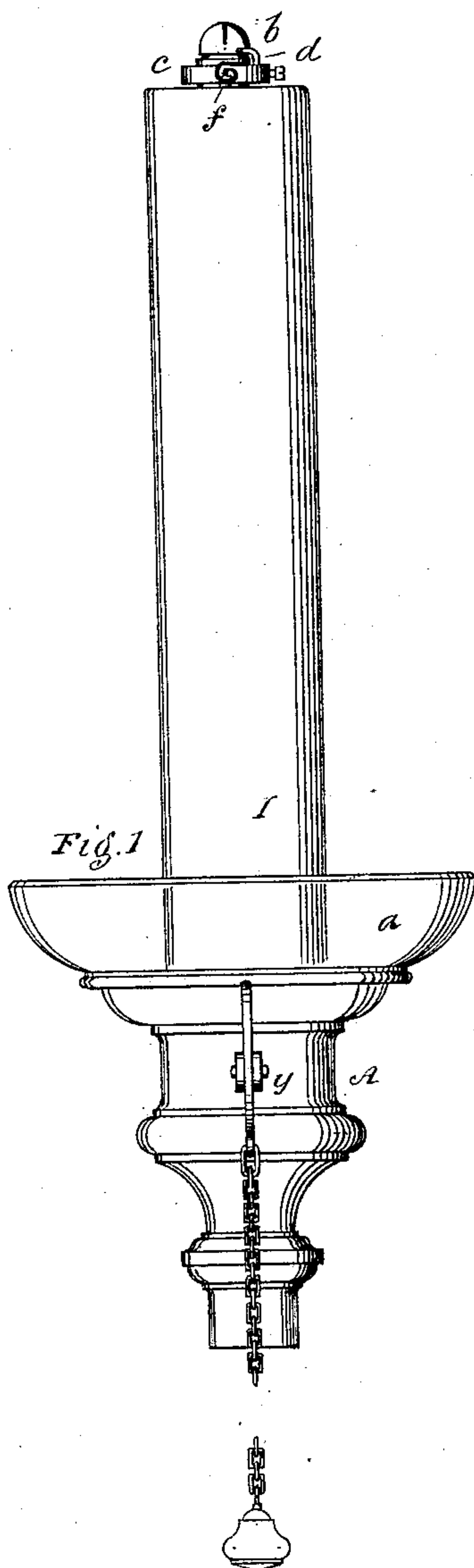
(No Model.)

A. L. BOGART.

ELECTRIC LIGHTING GAS BURNER.

No. 282,043.

Patented July 31, 1883.



WITNESSES:

*M. H. Fipping*  
*Geo. R. Riley*

INVENTOR

*A. Livingston Bogart*

BY

*John S. Thornton*  
ATTORNEY

# UNITED STATES PATENT OFFICE.

A. LIVINGSTON BOGART, OF JAMAICA, NEW YORK.

## ELECTRIC LIGHTING GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 282,043, dated July 31, 1883.

Application filed January 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, A. LIVINGSTON BOGART, of the town of Jamaica, and the county of Queens and State of New York, have invented a new and useful Improvement in Electric Lighting Gas-Burners; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The object of this invention is to make a gas-burner in the form and presenting the appearance of a wax or sperm candle, the same being provided with appliances for lighting the gas by electricity, thereby producing a burner of novel and ornamental appearance, which cannot be distinguished from a candle except upon close inspection of the same, and which can be instantaneously lighted or extinguished.

The invention consists in a gas-burner composed of a tube or cylinder of porcelain or similar material, to represent a wax or sperm candle, an ordinary lava gas-tip, and an inner tube, forming a passage-way for the gas, provided with appliances for lighting the gas by means of electric sparks produced by the same at or near the orifice of the tip, all of which is hereinafter particularly described.

In the accompanying drawing, Figure 1 represents an exterior elevation of my improved gas-burner, and Fig. 2 a sectional elevation of the same.

Similar letters of reference indicate the same parts in both the figures.

A represents a base or stem, which forms the support of the burner, and which may be fixed in a chandelier or on a bracket or other suitable place or position.

a represents a glass bowl or similar article, which is merely for ornamentation, and does not form part of the invention.

B is an upright tube, which is connected at its lower end to the gas-supply pipe, and into the upper end of which is fitted an ordinary lava gas-tip, b, upon which latter is fitted a metal collar, c, carrying a fixed electrode, d.

C is an upright rod, pivoted at its lower end to a suitable lever, e, which may have its ful-

crum at any convenient point, as at y, by means of which a reciprocating vertical movement is imparted to said rod. At the upper end of said rod is secured a platinum wire, or other suitable electrode, f, which makes and breaks contact with the electrode d whenever the rod c is either raised or lowered.

h h are flanges secured upon the tube B, having perforations formed in them through which the rod C passes, and which form bearings or guides for the same to keep it in proper position, so that the electrode f shall make contact with d whenever the rod C is raised and lowered.

i is a spiral spring, fitted upon some portion of the rod C between two of the flanges h, its lower end being secured to the rod, and its upper end resting against one of said flanges, which serves to retract said rod whenever it has been raised by said lever e.

D is a chain or cord for operating the lever e, which may be used when the burner is placed at a height which cannot be conveniently reached.

F is an insulated wire, attached at its upper end to the collar c, and connecting the same with an ordinary battery. (Not shown in the drawings.) An electric circuit being formed through the medium of the wire F when the electrodes are in contact, and broken when they separate, a spark is produced by each ascent and descent of the rod C, which lights the gas if it is turned on.

I is a tube or cylinder, of porcelain or other suitable material, representing a wax or sperm candle, which incloses the tube B, its upper extremity terminating just below the collar c, as shown in the drawings, and concealing from view the appliances for lighting the gas.

I am aware that a tube or cylinder has been used in lamps to represent a candle; but that I do not claim as my invention.

What I claim as my invention is—

1. A gas-burner consisting of an upright tube, B, carrying a non-conducting tip, and having flanges h, a fixed electrode at the tip, having a wire connection to the external circuit, a reciprocating electrode supported in the flanges, and operated by a lever and spring, and a tube or cylinder of porcelain or similar



material embracing the whole, substantially as described.

2. In a burner having the gas-pipe B terminating in a tip, and surrounding tube I, the  
5 igniting device consisting of a fixed electrode and a reciprocating electrode, with connections extending below the tube I, and an oper-

ating-lever located in the base-piece A, substantially as described.

A. LIVINGSTON BOGART.

Witnesses:

JOHN S. THORNTON,  
M. H. TOPPING.