

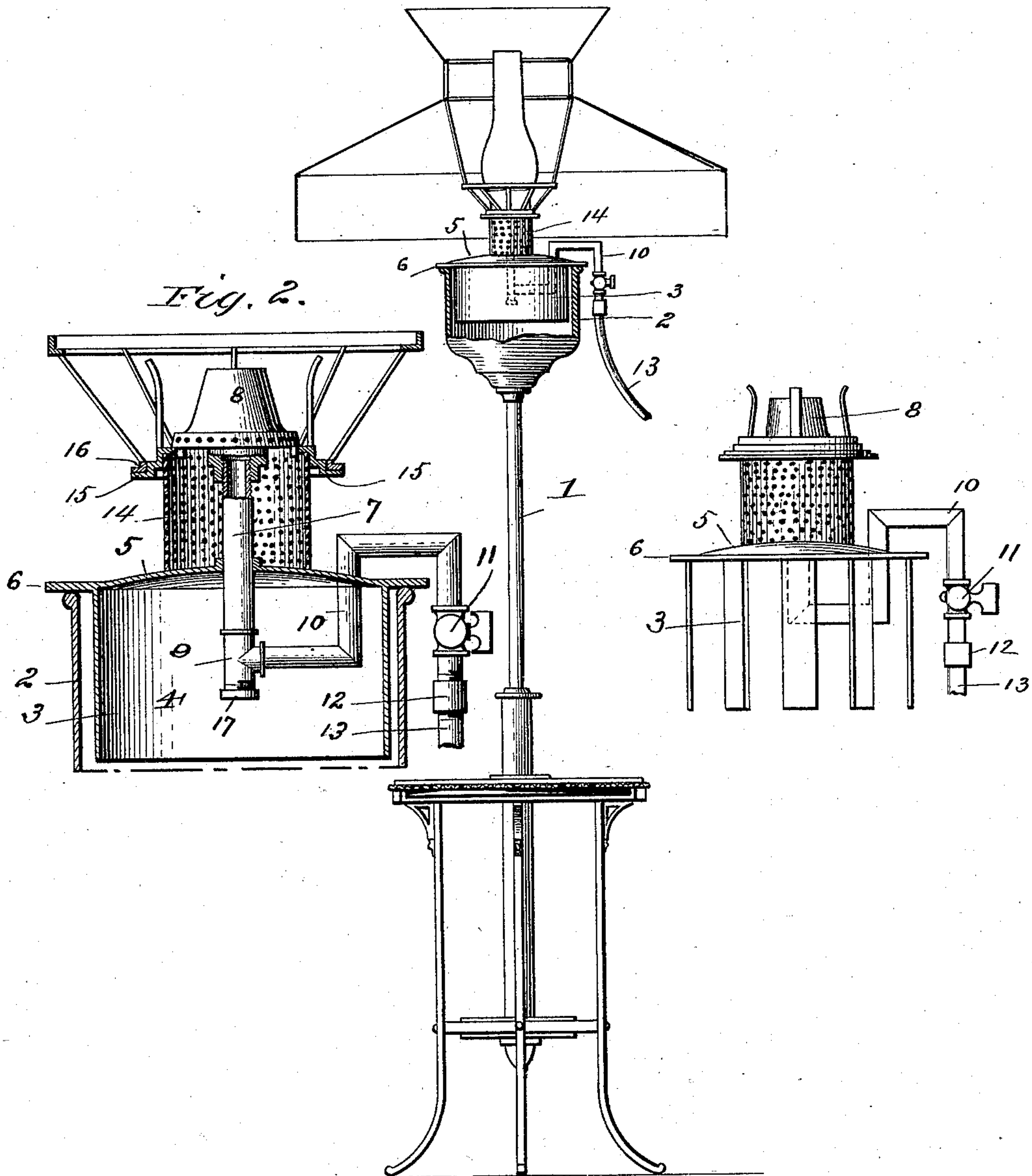
(No Model.)

W. M. MILLER.  
DROP LIGHT.

No. 545,087.

Patented Aug. 27, 1895.

*Fig. 1.*



Witnesses  
*G. M. L. L. L.*  
*W. M. L. L.*

Inventor  
*William M. Miller*  
*Alexander Davis*  
his Attorneys



# UNITED STATES PATENT OFFICE.

WILLIAM M. MILLER, OF RICHMOND, VIRGINIA.

## DROP-LIGHT.

SPECIFICATION forming part of Letters Patent No. 545,087, dated August 27, 1895.

Application filed May 14, 1895. Serial No. 549,298. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM M. MILLER, a citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Drop-Lights, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to new and useful improvements in drop-lights for burning gas; and it has for its object to provide a light of this class which will be adapted to be used in the place of the usual oil standard-lamps known as "piano" and "banquet" lamps.

To this end the invention consists in providing a standard with a hollow head at its upper end similar to the head on the ordinary piano-lamps, and to provide a frame to fit within this head, which frame carries a gas-burner, shade-holder, and chimney-holder, as will be more fully hereinafter described, and particularly pointed out in the claims appended.

25 In the drawings, Figure 1 is a side elevation, parts being shown in section to more clearly show the construction. Fig. 2 is an enlarged detail sectional view. Fig. 3 is a detail elevation of the removable frame.

30 Referring to the various parts by numerals, 1 designates a standard, which may be of any suitable size and design; 2, the hollow head carried by said standard at its upper end. Within this head fits a frame 3, which is formed of the cylindrical body portion 4 and the solid top 5, which extends entirely over the body portion, its edge projecting slightly beyond it and forming the annular radial flange 6. This flange rests upon the upper edge of the head 2 and supports the frame 3, as is manifest.

45 Extending a suitable distance above and below the top 5, from the center thereof, is a tube 7, whose upper end is threaded to receive the threaded lower end of a gas-burner 8, the lower end of said tube being provided with a T-coupling 9. Connected to the horizontal member of this coupling is a tube 10, which is carried up through the top 5 and is then carried downwardly, outside of the flange 6 for a short distance, and is there provided with a valve 11, by means of which the sup-

ply of gas may be entirely cut off from the burner. The outer lower end of the tube 10 is provided with a coupling 12, by means of which the supply-tube 13 is attached. Surrounding the tube 7 and resting at its lower edge on the top 5 is a perforated cylinder 14, which is much larger in diameter than the tube 7 and is about equal thereto in height. A chimney-supporting ring 15 rests on the upper end of this cylinder, and the cylinder and chimney-carrying ring are clamped in place by the burner 8, as shown. A shade-supporting ring 16 is carried by the chimney-supporting ring, as shown.

Instead of forming the body portion of the frame cylindrical, it may be formed of depending strips or legs, as shown in Fig. 3. A removable cap 17 is secured over the lower end of the coupling 9, in order to permit the tube 7 to be drained of any water of condensation which may accumulate therein.

In operation draft is supplied to the flame through the perforated cylinder 14 and passes up through the burner 8 to the flame inside of the chimney, as is manifest, and the supply of gas is regulated by means of the valve 11.

From the foregoing, when taken in connection with the accompanying drawings, it will be seen that I provide a drop-light well adapted for use in the place of the usual oil-lamp, which is carried by standards. It will also be seen that by the use of my removable frame and its attached parts any of the oil-lamps of the class described now in use may be converted into drop-lights by simply removing from them the oil-reservoir and inserting my improved frame in the hollow head and connecting the tube 10 with a convenient gas-fixture by a flexible tube, or in any other suitable manner.

One of the objects and advantages of forming a removable burner-carrying frame for drop-lights is that the cost of manufacturing the stands for such lights is thereby materially cheapened, as the usual central gas-tube need not be built therein. It will also be readily understood that an adjustable drop-light standard may be used with my device, as it is unnecessary to have a gas-tube in said standard.

Making the burner-carrying frame removable from the standard is of great advantage



in packing the drop-lights for shipment, as is manifest.

Having thus fully described my invention what I claim is—

5 1. In a drop-light, the combination of a standard having at its upper end an open head, a frame fitting removably within said head and provided with a top or cover, a gas tube passing centrally through the top or  
10 cover, said tube being provided with a removable drainage cap at its lower end, a perforated cylinder resting on the top and surrounding the gas tube, a chimney-supporting ring on top of this cylinder, a burner screwed  
15 on the central gas tube and serving to clamp said ring and cylinder in place, and a gas-supply pipe passing down through the top and connecting with the central gas-tube, as and for the purposes described.

2. In a drop-light, the combination of a 20 standard having at its upper end an open head, a frame fitting removably within said head and provided with a top or cover, a gas tube passing centrally through the top or  
25 cover, a perforated cylinder resting on the top and surrounding the gas tube, a chimney-supporting ring on top of this cylinder, a burner screwed on the central gas tube and serving to clamp said ring and cylinder in place, and  
30 a gas-supply pipe passing down through the top and connecting with the central gas-tube, as and for the purposes described.

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

WILLIAM M. MILLER.

Witnesses:

W. LEAKE WINGFIELD,  
G. H. REDD.