

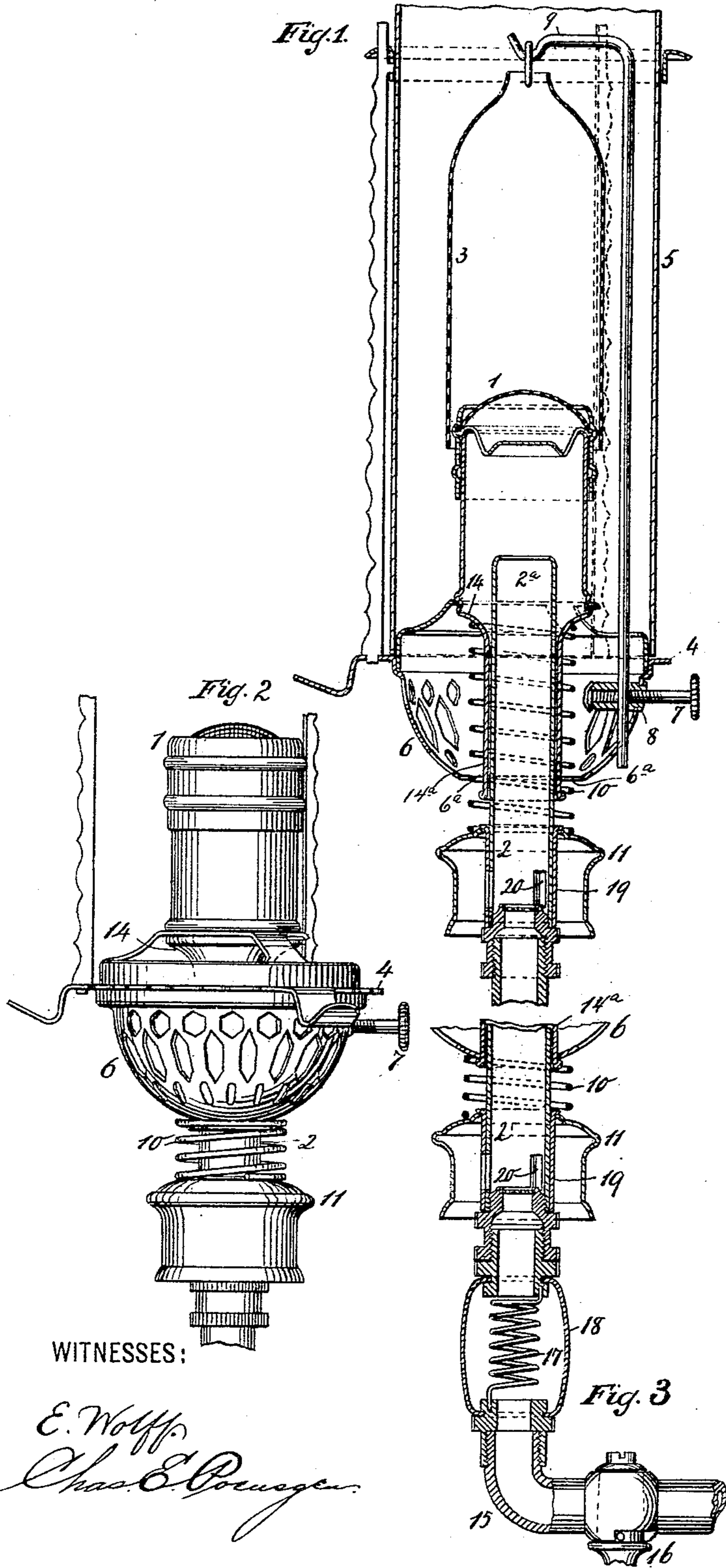
No. 638,652.

Patented Dec. 5, 1899.

L. STIASSNY.
INCANDESCENT GAS BURNER.

(Application filed Feb. 23, 1899.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

LEOPOLD STIASSNY, OF NEW YORK, N. Y.

INCANDESCENT GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 638,652, dated December 5, 1899.

Application filed February 23, 1899. Serial No. 706,544. (No model.)

To all whom it may concern:

Be it known that I, LEOPOLD STIASSNY, a subject of the Emperor of Austria-Hungary, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Lamps or Burners, of which the following is a specification.

By means of this invention a lamp or burner can be obtained which might be called "non-vibrating" or "antivibrating" and which is useful for preserving incandescent mantles against destructive shocks or vibrations, as set forth in the following specification and claims and illustrated in the annexed drawings, in which—

Figure 1 is a sectional elevation of a burner. Fig. 2 is a side elevation of a modification. Fig. 3 is a sectional elevation of Fig. 2.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numeral 2 indicates a Bunsen burner, and 1 an upper burner-section inwardly contracted to form an annular shoulder 14, which is extended downward in the form of a sleeve 14^a, telescoping or slidable vertically on the upper tubular portion 2^a of the Bunsen burner. The vertically-slidable upper burner-section 1 is provided with a gallery 4 for the chimney 5, and from the gallery depends a perforated cup-shaped ornament 6, having in the form shown in Fig. 1 an orifice 6^a in its base or lower portion to accommodate the Bunsen burner and the spring 10, hereinafter referred to. The ornament 6 is provided with a set-screw 7, engaging a screw-socket 8 to adjustably hold the wire-support 9, from the upper end of which the mantle 3 is suspended.

The Bunsen burner is provided with a fixed cup-shaped flange 11, surrounding the air-inlets 20, and on this flange rests the lower end of a spring 10, the upper end of which in Fig. 1 bears against the annular shoulder 14 of the vertically-slidable upper burner-section to form a yielding non-vibrating support for the upper burner-section, which carries the mantle-support.

In Figs. 2 and 3 the spring 10 is shown flared or of such size as to brace against the ornament 6 instead of extending inside the

latter, and the spring or its upper part could be flared or widened, as desired, to extend up about the ornament a greater or less distance. 55

In the structure shown in the drawings the flange 11 forms a handle for rotating the valve or sleeve 19 for regulating the entrance of air through passages 20 into the Bunsen burner 2 for producing the required mixture of air 60 and combustible.

The spring 10 is of suitable shape or size, strength, and material, so as to secure the required elasticity, and such spring can be left exposed, as seen in Fig. 2, or more or less concealed, as seen in Fig. 1. In case of heavier lamps two or more springs 10 could be placed to coact. The spring or springs 10 will counteract such shocks or vibrations as caused, for example, by the rattling of a wagon in the street or by the vertical shocks arising in dance-halls, bowling-alleys, and the like. The portion 2 is connected to a bracket or supply-tube 15 with stop-cock 16, and such connection may be either rigid or yielding. 75 A second spring 17, Fig. 3, interposed between tube 2 and bracket 15, will allow or compensate for lateral movement or vibration, while spring 10 takes up vertical vibrations. The spring 17 is shown inclosed or surrounded by a flexible or rubber coat or hollow ball 18, and this spring 17 is sufficiently rigid to normally hold the burner 1 and mantle-carrier 9 upright while allowing slight lateral vibration. The lateral vibrations taken up by spring 17 might be liable to arise, for example, in such places as drill-rooms from a body of men marching or coming suddenly from march to halt. 85

The ornament 6 in Fig. 1 can be omitted, if seen fit. The rubber tube or elastic part 18 could be made sufficiently strong to vibrat- 90 ingly support the burner or mantle without aid of spring 17; but the spring 17 has been found to be serviceable. 95

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

1. The combination of the Bunsen burner 2 having the lateral flange 11, the upper burner-section 1 having a chimney-gallery 4, a perforated cup-shaped ornament 6 depending from the gallery and a sleeve 14^a extending through the cup-shaped ornament and slidable vertically on the upper part of the Bun- 100

sen burner, a mantle-support mounted on the cup-shaped ornament, and a spring 10 resting at its lower end on said lateral flange and yieldingly supporting the upper burner-section, substantially as described.

2. The combination of the Bunsen burner 2 having air-inlets 20 and the cup-shaped flange 11 surrounding said air-inlets, the upper burner-section 1 having the chimney-gallery 4, the perforated cup-shaped ornament 6 depending from the gallery and the sleeve 14^a extending through the cup-shaped ornament and slidable vertically on the upper part of the Bunsen burner, a mantle-support 9 mounted on the cup-shaped ornament, and a spring 10 resting at its lower end on said cup-shaped flange and yieldingly supporting the upper burner-section, substantially as described.

3. The combination of the Bunsen burner 20 having a lateral flange 11, the upper burner-

section 1 contracted to form the annular shoulder 14 and having the chimney-gallery 4, the perforated, cup-shaped ornament 6 depending from the gallery and the sleeve 14^a extending through the cup-shaped ornament and slidable vertically on the upper part of the Bunsen burner, a mantle-support 9 mounted on the cup-shaped ornament, and the spring 10 extending through the said cup-shaped ornament, surrounding said sliding sleeve and bearing at its ends, respectively, against said annular shoulder and said lateral flange, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

LEOPOLD STIASSNY.

Witnesses:

W. C. HAUFF,

E. F. KASTENHUBER.