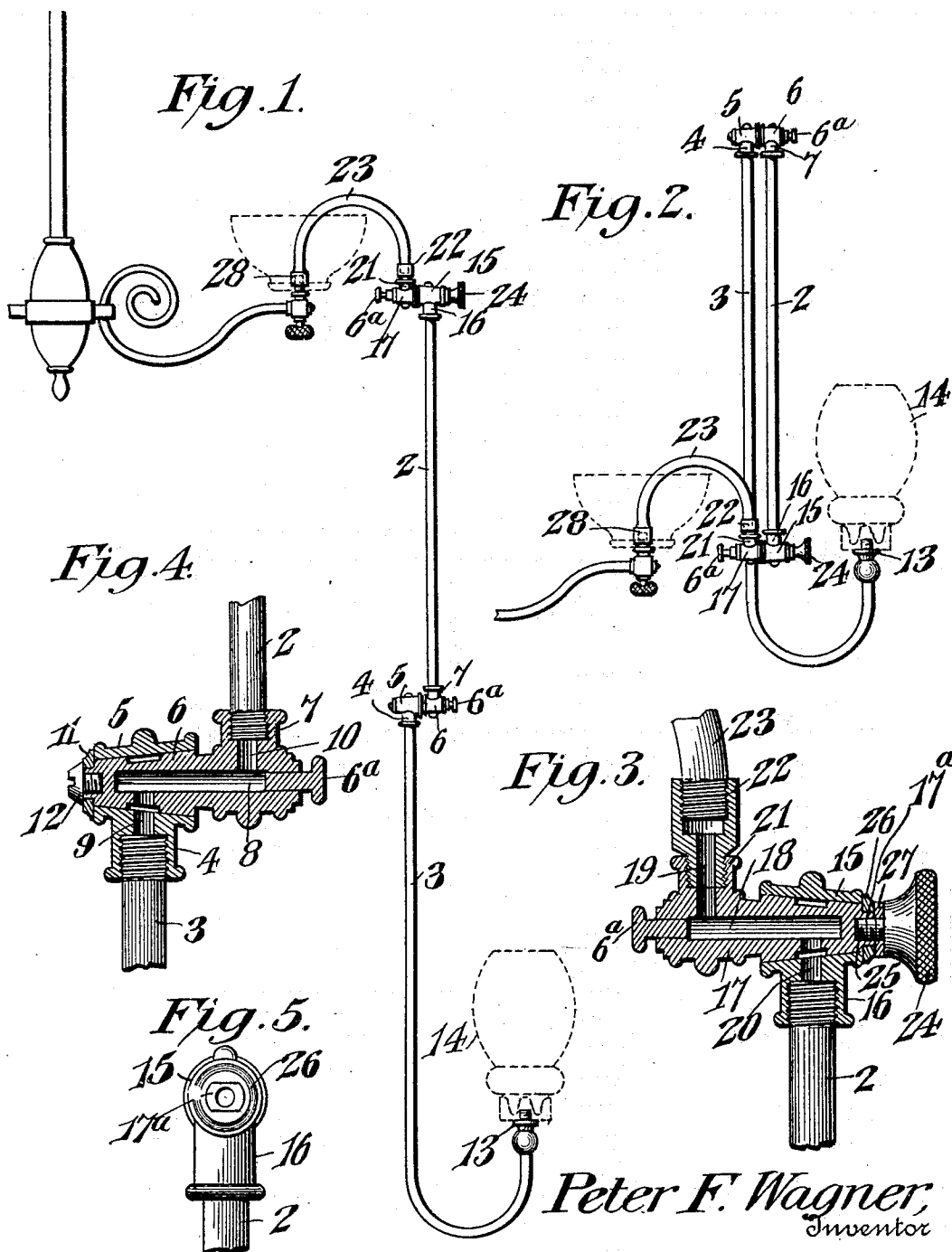


P. F. WAGNER.
ADJUSTABLE DROP LIGHT.
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929,639.

Patented July 27, 1909.



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Witnesses
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UNITED STATES PATENT OFFICE.

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ADJUSTABLE DROP-LIGHT.

No. 929,639.

Specification of Letters Patent.

Patented July 27, 1909.

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To all whom it may concern:

Be it known that I, PETER F. WAGNER, a citizen of the United States, residing at Greensburg, in the county of Decatur and State of Indiana, have invented a new and useful Adjustable Drop-Light, of which the following is a specification.

My invention relates to drop lights, and particularly to those which are adapted to be attached to a gas bracket or chandelier and be easily detachable therefrom, and which depend from said bracket, the object of my invention being to provide a drop light of this character which is so constructed that it will fold up so as to lower the burner thereof to any desired distance below the permanent gas bracket, or that the drop light may be raised to such a position that the burner thereof is brought to a level with the burner of the permanent gas bracket.

The invention consists in the details of construction and arrangement of parts described in the accompanying specification and specifically stated in the appended claims.

In the drawing, Figure 1 is a side elevation of my drop light as applied to a chandelier, the parts being extended; Fig. 2 is a like view showing the drop light in its raised position; Fig. 3 is a longitudinal section of the pivotal connection between the goose-neck and one section of the drop light; Fig. 4 is a like longitudinal section of the pivotal connection between the two sections of pipe; Fig. 5 is an end view of the hub 17 and sleeve 15, the head being removed.

In the drawings, 2 and 3 denote two lengths or sections of ordinary gas pipe. The section 3 is screw-threaded at its upper end into a nipple 4, forming part of and projecting from a sleeve 5. This sleeve surrounds and is relatively rotatable upon a hub 6, which is preferably conical and is provided at one end with the projecting nipple 7. The interior of the hub is formed with a passage 8 to which a passage 9 extending through the nipple 4 and through the side of the hub connects. A passage 10 passes through the nipple 7 and enters the longitudinal passage 8. The end of the hub is closed by a plug 6^a, as common in constructions of this character, thus permitting the passage 8 to be bored. At its other extremity the hub 6 is reduced and surrounded by a washer 11, which bears against the sleeve 5. A tightening screw 12 is inserted

in the small end of the hub, its head bearing against the washer 11. By turning this screw the hub is drawn into the sleeve 5, and held tightly in place, thus increasing the rigidity of the joint and tightening it so that no gas may escape. The lower end of the pipe 3 is bent upward and is provided with any form of burner connection 13, and with the usual shade, 14, of any desired form. The upper end of the section 2 of pipe is also provided with a joint similar to the joint connecting the two sections. As will be seen in Fig. 3, the pipe 2 is screw threaded into a nipple 16, projecting from a conical sleeve 15, which surrounds a conical hub 17. This hub is formed with a central bore, 18, and with the passages 19 and 20, passing through the nipples.

At one end the hub is formed with the nipple 21, into which screws the connecting reducer 22, screwed upon the lower end of a goose-neck, 23. The other end of the hub is provided with the tightening screw 25, formed with an enlarged head 24. A washer 26 surrounds the squared end 17^a of the hub and a washer 27 bears against the washer 26, and the head 24. It will be obvious that by turning this head in one direction, the hub will be drawn more firmly into the sleeve and that the joint will thus be tightened to any desired extent. This not only prevents any leakage of gas through the joint, but also provides a means whereby the joint may be so tightened as to hold the sections 2 set at any angle desired around the hub and thus permit the drop light to be raised or lowered if desired. The other end of the goose-neck is provided with an enlarged head 28 adapted to fit over and be attached to the burner nipple of any ordinary gas fixture.

In Fig. 1 my drop light is shown as extended, while in Fig. 2, the two sections have been rotated upon the hub 17 to bring them into a position wherein the shade 14 is raised to a point level with the ordinary permanent burner of the chandelier. In this position the drop light provides a burner practically the same as the permanent burner of the gas fixture, while, at the same time, it may be adjusted to any point in a vertical plane desired by loosening the screw head 24 and drawing the sections downward and again tightening the screw head.

Inasmuch as the hub 6 and the sleeve 5 merely form a pivotal connection between

the two sections, 2 and 3, of the pipe, and merely require to be tightened to prevent leakage of gas, there is no necessity of providing a clamping or adjusting head to the screw, 12, but the pivotal connection between the pipe 2 and the goose-neck or other connection used for connecting the hub 17 to the regular gas burner, must be provided with means whereby the pipe 2 may be clamped in various positions so as to hold the drop light at various heights or in the position shown in Fig. 2. It is to this end I have provided the enlarged head 24, and because of the fact that this head has to be loosened and tightened whenever the drop light is adjusted, I am obliged to use the gasket which prevents any leakage of gas. While I have shown a goose-neck, 23, as connecting the hub 17 to the gas burner, I do not wish to be limited to this, as any other connection may be used between the hub and the regular gas burner. The goose-neck, however, is best, as it permits the drop light to be applied over the ordinary lamp shade without having to remove the shade.

My invention is simple, easily applied, quickly detached and may be very simply and cheaply made. It may be applied to any form of burner and while I have shown what I believe to be the preferred construction I do not wish to be limited to the precise details displayed.

Having thus described my invention, what I claim as new and desire to secure by Letters-Patent, is:

1. A drop-light including a tubular hub having a screw threaded portion projecting from one side adapted to be connected to the burner of a permanent gas bracket, said hub being frusto-conical, and a frusto-conical sleeve surrounding and rotatable upon said hub having a nipple projecting therefrom connecting with the bore of the hub, a clamp screw projecting into the hub having an enlarged head and adapted to urge

the sleeve into tight engagement with the hub, a section of pipe attached to the nipple of the sleeve, a section of pipe pivotally connected to the first-named section for movement in a parallel plane, and a burner attached to the free end of the last-named section.

2. A drop-light including a relatively fixed attachment formed into a goose-neck, and provided at one end with means for attachment to the burner of a permanent gas bracket, a section of pipe pivoted to said attachment for movement in a vertical plane, means for clamping said section in any of its adjusted positions relative to said fixed attachment, and a section of pipe pivoted to and depending from said first-named section for movement in a plane parallel thereto and carrying at its end a burner.

3. A drop-light including a tubular hub having a screw threaded reducer projecting from one side, a goose-neck attached to said reducer and at its other end provided with means for engagement with the burner of a permanent gas fixture, a sleeve surrounding and rotatable upon the hub and having a nipple thereon connecting with the bore of the hub, a clamp screw projecting into the hub having an enlarged head and adapted to urge the sleeve into tight engagement with the hub, a pipe section attached to the nipple of the sleeve, a tubular hub attached to the end of said pipe section, a sleeve rotatable upon said hub having a nipple connected to the interior of the hub, a pipe section attached to said nipple and depending therefrom and having at its end an upturned portion provided with a burner.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

PETER F. WAGNER.

Witnesses:

JOHN A. MCKINNEY,
LOUIS E. LAIRD.