No. 615,658. Patented Dec. 6, 1898.

T. WILSON.

WELSBACH OR OTHER INCANDESCENT LIGHT.

(Application filed Mar. 7, 1898.)

(No Model.)

Fig. 5

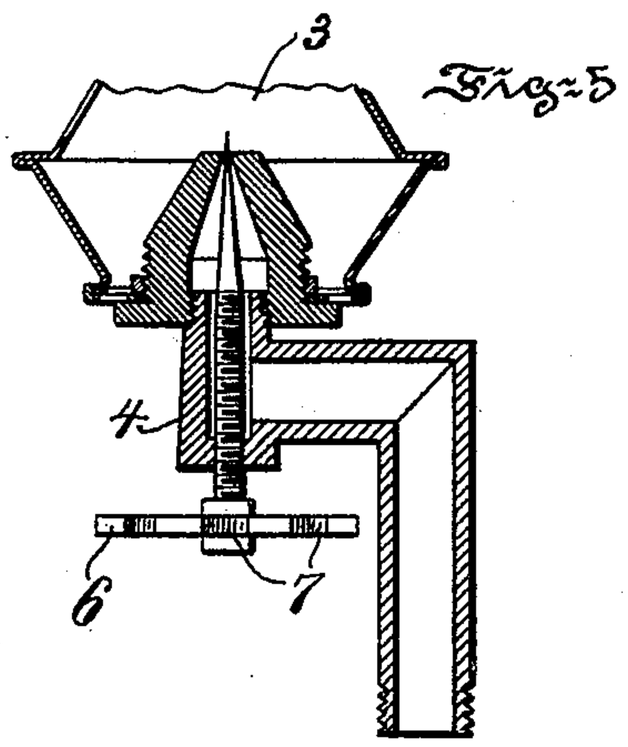
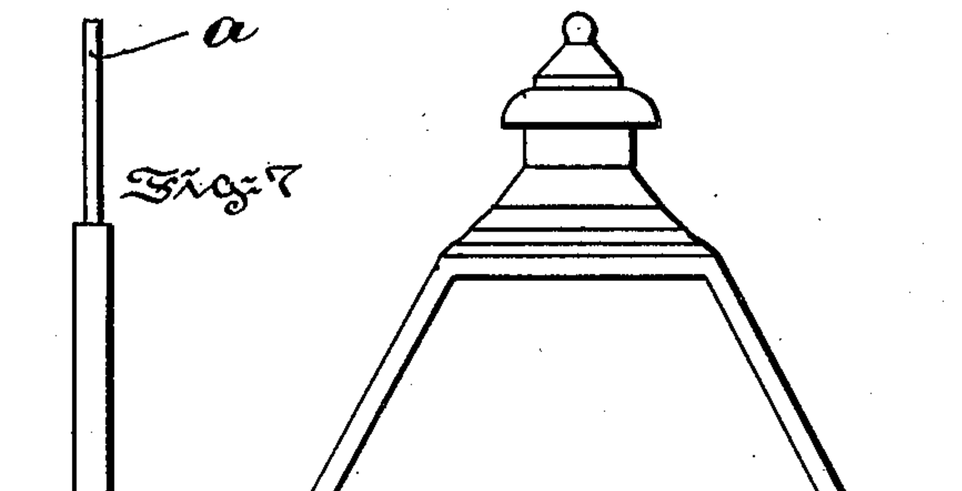


Fig. 7



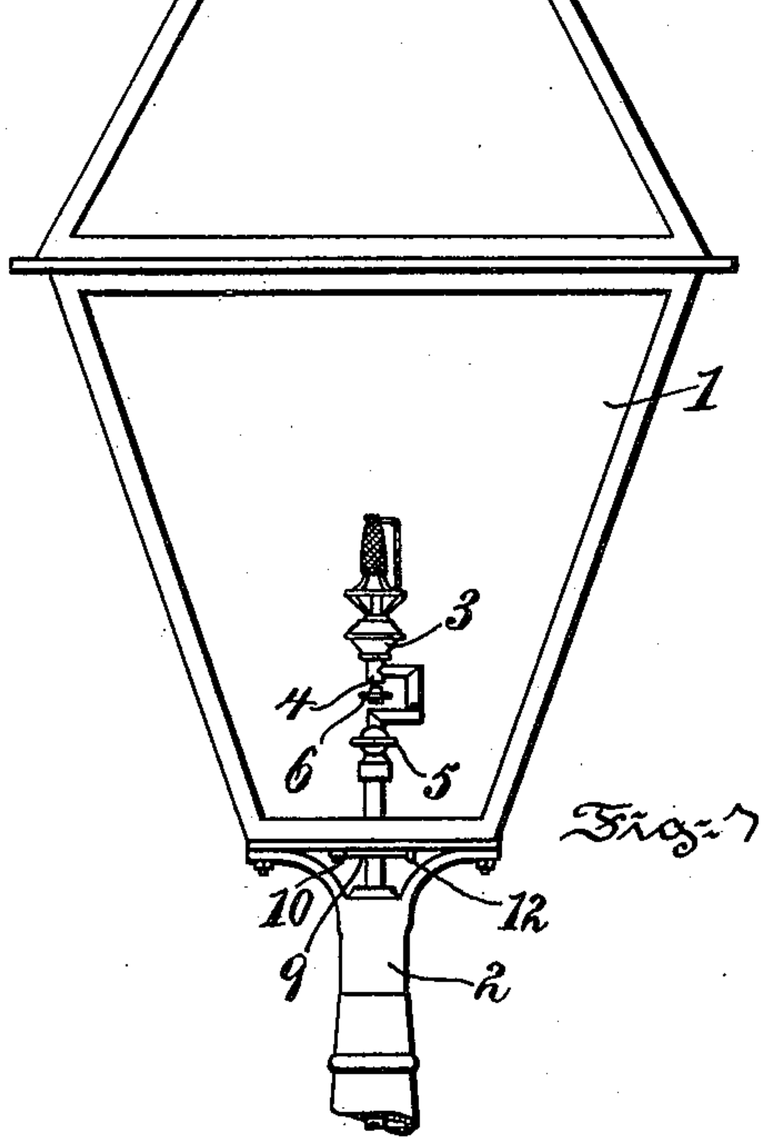


Fig. 2

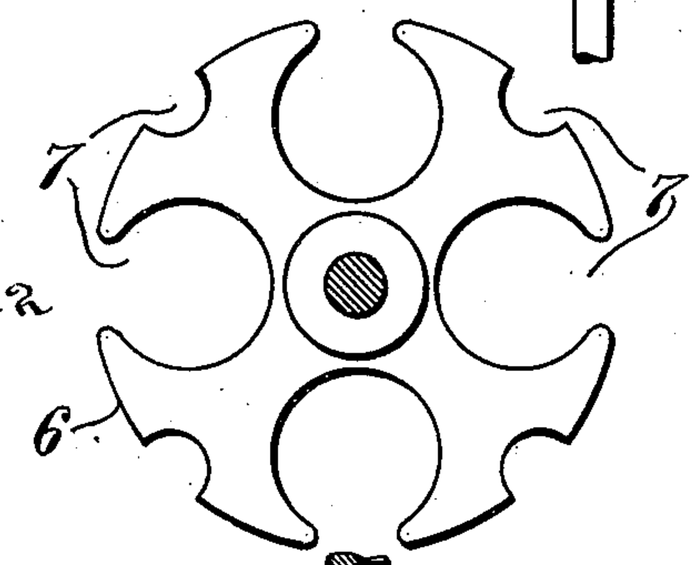


Fig. 3

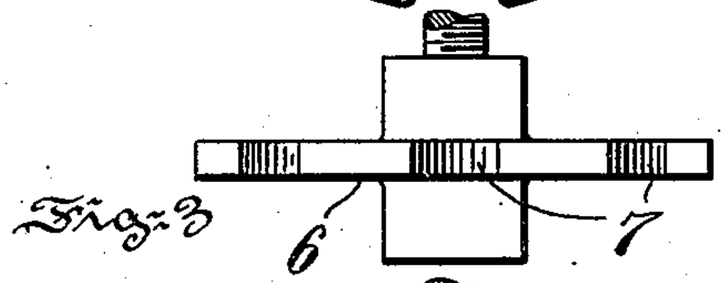


Fig. 4

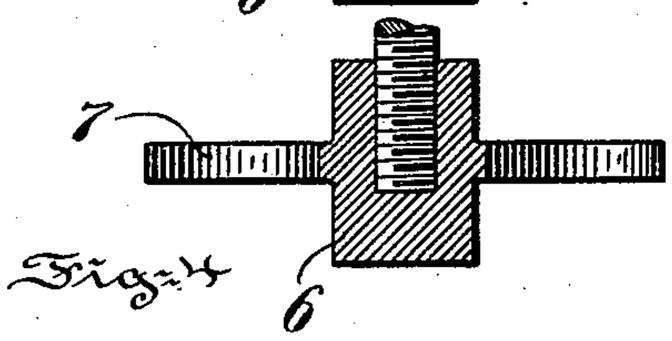
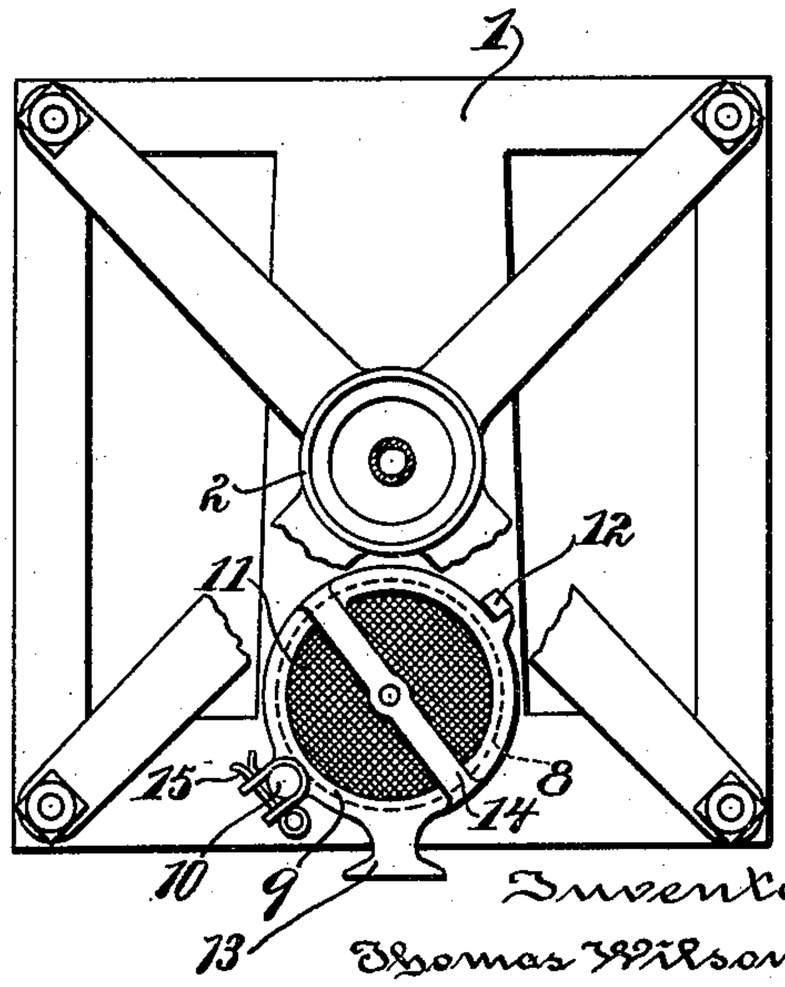


Fig. 6



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UNITED STATES PATENT OFFICE.

THOMAS WILSON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE PENNSYLVANIA GLOBE GAS LIGHT COMPANY, OF SAME PLACE.

WELSBACH OR OTHER INCANDESCENT LIGHT.

SPECIFICATION forming part of Letters Patent No. 615,658, dated December 6, 1898.

Application filed March 7, 1898. Serial No. 672,926. (No model.)

To all whom it may concern:

Be it known that I, THOMAS WILSON, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Welsbach or other Incandescent Lights, of which the following is a specification.

One object of the present invention is to provide for the control from the ground or sidewalk of the mixture of air and gas supplied to a Welsbach or other incandescent light without having to open the lantern with which such lights when used as street-lamps are commonly provided.

The nature, characteristic features, and scope of the invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part thereof, and in which—

Figure 1 is an elevational view of a street-lamp embodying features of the invention. Fig. 2 is a top or plan view of the notched and perforated wheel applied to the controlling-valve shown in Fig. 1. Fig. 3 is a side elevational view of the same. Fig. 4 is a central sectional view thereof. Fig. 5 is a sectional view illustrating, on a substantially correct scale, the portion of the light that is provided with the wheel shown in Fig. 2. Fig. 6 is a plan view of the under side of the base of the lantern drawn to an enlarged scale, and Fig. 7 is a view of an implement which may be designated a "lighting-stick."

In the drawings, 1 is a lantern of any size and shape mounted on a lamp-support 2 and provided within its interior with a Welsbach or other incandescent light 3, having a controlling-valve 4. As shown, the controlling-valve 4 is arranged to operate upon the supply of gas, although a controlling-valve might be employed and arranged for operating upon the supply of air. The controlling-valve 4 is intended for use in adjusting the supply of gas in accordance with the pressure in the gas-mains, and means are usually provided for turning on and off the gas when the lamp is lighted and extinguished. An example of such means is illustrated at 5.

6 is a notched and perforated wheel applied to the controlling-valve, for example, by way of its spindle and constructed for operation by means such as an implement shown in Fig. 7 and herein designated a "lighting-stick." The notches and perforations 7 are arranged for the reception of the end *a* of the lighting-stick, as will appear by reference to the drawings. The base of the lantern, Fig. 6, is provided with an opening 8.

9 is a ring or frame pivoted, as at 10, so as to turn parallel with the base of the lantern.

11 is a perforated cover for the ring, and 12 is a stop for limiting its range of motion. The ring or frame 9 is provided with a lug 13, extending beyond the base of the lantern, and with a bridge 14, to which the perforated cover 11 may be attached. As shown, the ring or frame 9 is pivoted by means of ears fitted to the shank of the headed pivot 10 and held to place by a split pin 15. The opening 8 may be covered and uncovered by pushing the lug 13 by means of the end *a* of a lighting-stick or the like, and the perforated cover 11 serves to exclude insects, drafts, &c., from the lantern.

To adjust the light, the attendant may stand on the sidewalk or ground and with his lighting-stick or similar implement operate upon the lug 13 so as to uncover the opening 8, through which the lighting-stick is inserted. The end *a* of the lighting-stick is caused to operate upon the notches or perforations of the wheel 6, and the body *b* of the lighting-stick resting upon a support, as the walls of the opening 8, serves to guide and support it during the operation. In this way the controlling-valve may be readily adjusted from the ground or sidewalk without opening the sides of the lantern, which would permit such drafts of air to enter as might tend to destroy the mantle or incandescent.

It will be obvious to those skilled in the art to which the invention appertains that modifications may be made in details without departing from the spirit thereof. Hence the invention is not limited to the precise construction and arrangement of parts hereinabove set forth, and illustrated in the accompanying drawings; but,

Having thus described the nature and objects of the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. Means for controlling the mixture of air

and gas supplied to a Welsbach or other incandescent street-lamp comprising a peripherally notched and perforated wheel applied horizontally to the controlling-valve of the lamp and constructed for operation by means of a lighting-stick or the like, substantially as described.

2. In combination a street-lamp having a lantern containing a Welsbach or other incandescent light, a notched and perforated wheel applied to the controlling-valve of the light and constructed for operation by a lighting-stick or the like, and an opening in the base of the lantern arranged for the passage of the stick and constructed to constitute a bearing for the same, substantially as described.

3. The combination of a lantern constructed with a base having an opening therein, a ring or frame provided with a bridge and with a lug and pivoted to the base of the lantern, a perforated cover attached to said bridge, and a stop, substantially as described.

4. The combination of a lantern-base provided with an opening and with a headed pivot, a ring or frame provided with ears adapted to engage the shank of said pivot, and a split pin engaging said ears, substantially as described.

In testimony whereof I have hereunto signed my name.

THOMAS WILSON.

In presence of—
K. M. GILLIGAN,
W. S. JACKSON.