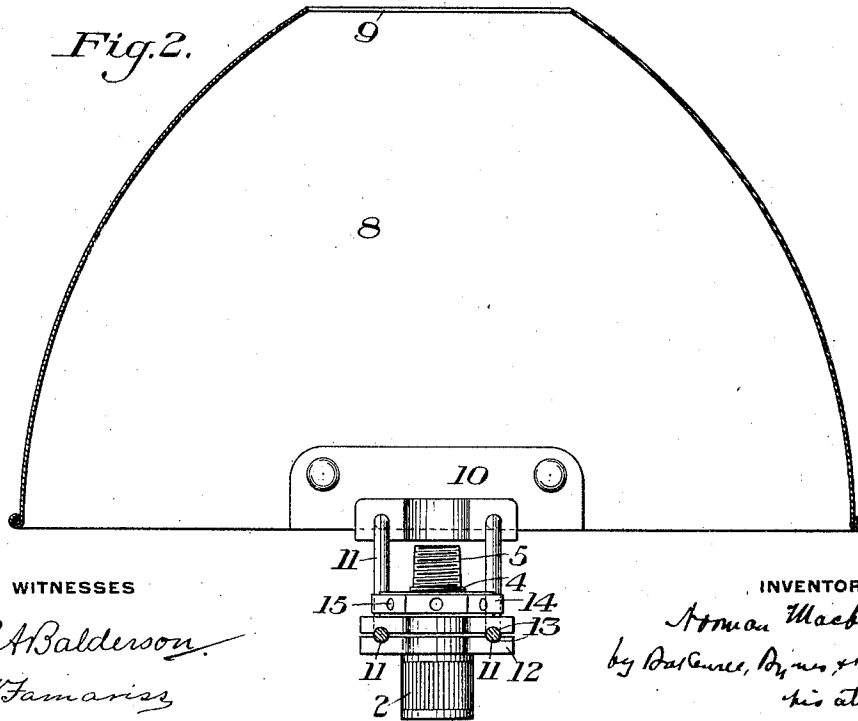
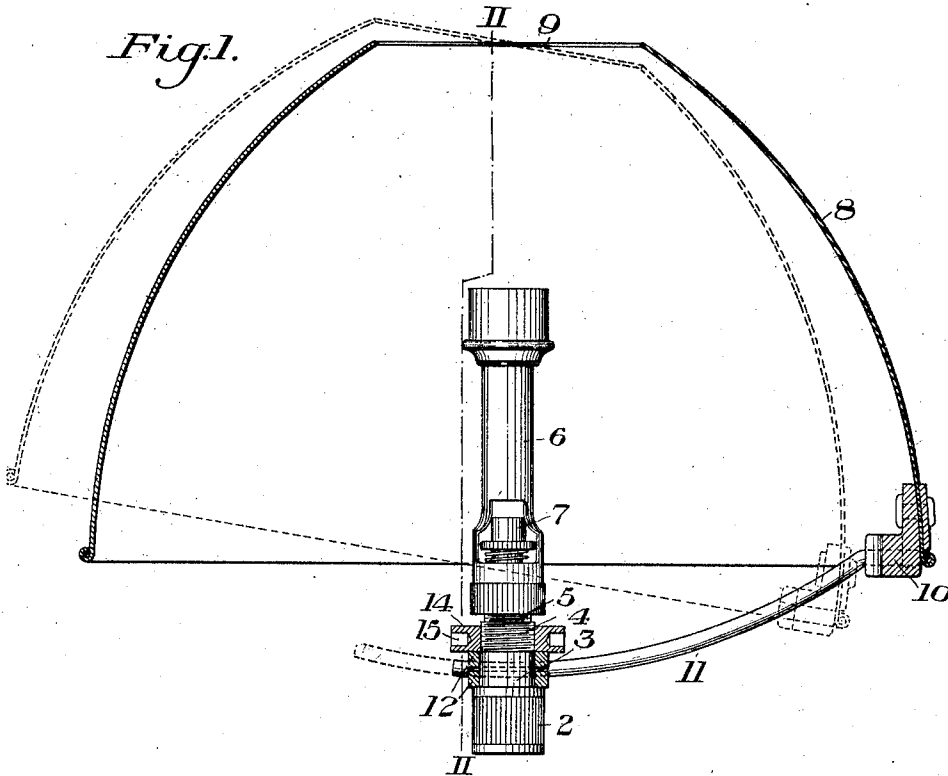


N. MACBETH.  
ADJUSTABLE REFLECTOR OR SHADE FOR GAS LIGHTS.  
APPLICATION FILED JULY 28, 1910.

1,002,593.

Patented Sept. 5, 1911.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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ADJUSTABLE REFLECTOR OR SHADE FOR GAS-LIGHTS.

1,002,593.

Specification of Letters Patent.

Patented Sept. 5, 1911.

Application filed July 28, 1910. Serial No. 574,389.

*To all whom it may concern:*

Be it known that I, NORMAN MACBETH, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Adjustable Reflector or Shade for Gas-Lights, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a sectional elevation showing the preferred form of my invention; and Fig. 2 is a section of the shade on the line II—II of Fig. 1 with the burner removed.

My invention has relation to an adjustable reflector or shade for gas lamps, and is designed to provide a simple and convenient device of this character in which the reflector or shade can be readily attached to a lighting bracket or fixture; which will permit the reflector or shade to be quickly and easily adjusted to any desired angle, and also rotated upon the support, and which can be so adjusted without danger of injury to the gas mantle.

The nature of my invention will be best understood by reference to the accompanying drawings, in which I have shown the preferred embodiment thereof, it being premised, however, that changes may be made in the details of construction and arrangement of the parts without departing from the spirit and scope of my invention as defined in the claims.

In these drawings, the numeral 2 designates a short piece of pipe, or nipple, which is provided with an interiorly threaded portion at its lower end which can be readily screwed upon a gas pipe. Above this threaded portion, which is preferably externally milled or roughened for convenience in attaching and detaching it, the nipple is formed with a plain unthreaded portion 3, and above this unthreaded portion with two threaded portions 4 and 5 of different diameters, the threaded portion 5 being preferably slightly tapered.

6 is a burner tube, such as the ordinary Bunsen tube, having a gas regulator 7. This tube is internally threaded at its lower end to screw upon the tapered threaded portion 5 of the nipple.

8 designates the shade or reflector, which may be of any desired character, and shown as being of dome or conical form with a cen-

tral opening 9 at its upper end. It is preferably provided with a suitable interior coating of light reflecting character, such as aluminum paint, although my invention is not limited in this respect.

Secured to the inner wall of the reflector or shade at one side, and adjacent to its lower edge is a suitable lug 10 which carries two projecting supporting members 11. These preferably consist of parallel wires, which are bent downwardly with a curvature whose radius is struck from the center of the opening 9 at the top of the shade, for the purpose hereinafter described.

Mounted on the unthreaded portion 3 of the nipple are two clamping plates 12 having notches or recesses 13 to receive the parallel supporting members 11, and being secured in clamping engagement with said members by means of a nut 14, which is seated on the threaded portion 4 of the nipple, the interior diameter of this nut being sufficiently large to permit it to be readily slipped over the upper threaded portion 5 of relatively smaller diameter. This nut may be of any suitable shape, and may be provided with holes or depressions 15 in its periphery so that it can be engaged with a suitable tool for turning in case it becomes too hot to be turned with the fingers. By releasing this nut, the supporting members 11 can be slid through the clamps 13 so as to permit the reflector or shade to be tipped to any desired angle, one such adjustment being shown in dotted lines in Fig. 1. By reason of the curvature of the members 11, it will be seen that no matter what may be the angular position of the shade within the limits of the adjustment, the vertical axis of the burner will always be directed toward the center of the opening 9. This not only affords a proper draft for the lamp, but it also prevents injury to the mantle by contact therewith of the reflector or shade when tipped to an angle. In this tipped position the shade can also be turned to any desired position by a rotary movement, since the clamping members 13 turn freely on the unthreaded portion 3 of the nipple.

The advantages of my invention will be readily understood, since it provides a shade or reflector which can be quickly and readily attached to an ordinary lighting fixture, the only additional fixture required being the nipple 2, to which the usual burner tube is

attached, which is screwed upon the fixture. The desired adjustment of the reflector or shade can be quickly and easily made.

It will be understood that various changes may be made in the details of construction and arrangement. Thus, the shade or reflector may be of any desired form, and the precise character of the supporting members may be varied, as may also the specific form of the clamp.

What I claim is:—

1. A reflector or shade attachment for gas lamps, comprising a nipple member adapted for attachment to a gas supply pipe and having means for the attachment thereto of a burner pipe section, a clamping device carried by the nipple, and a reflector or shade having supporting members adjustably engaging the clamping device; substantially as described.

2. A reflector or shade attachment for gas lamps, comprising a nipple member adapted for attachment to a gas supply pipe and having means for the attachment thereto of a burner pipe section, a clamping device carried by the nipple, and a reflector or shade having supporting members adjustably engaging the clamping device, the clamping device being rotatably mounted upon said nipple to permit rotation of the reflector or shade; substantially as described.

3. A reflector or shade attachment for gas lights, comprising a nipple having means for its attachment to a gas pipe or fixture, and also having means for the attachment thereto of a burner, clamping members seated on the nipple, and a reflector or shade having parallel supporting members projecting inwardly from one side thereof, and means for adjustably securing the supporting members in the clamping members; substantially as described.

4. A reflector or shade attachment for gas lights, comprising a nipple having means for its attachment to a gas pipe or fixture, and also having means for the attachment thereto of a burner, clamping members seated on the nipple, and a reflector or shade having

parallel supporting members projecting inwardly from one side thereof, and means for adjustably securing the supporting members in the clamping members, said supporting members having a downward curve; substantially as described.

5. A reflector or shade attachment for gas lights, comprising a nipple having means for its attachment to a gas pipe or fixture, and also having means for the attachment thereto of a burner, clamping members seated on the nipple, and a reflector or shade having parallel supporting members projecting inwardly from one side thereof, and means for adjustably securing the supporting members in the clamping members, said supporting members having a downward curve whose radius is struck approximately from the center of the opening in the top of the reflector or shade; substantially as described.

6. A reflector or shade attachment for gas lights, comprising a nipple having a threaded portion at its lower end for attachment to a gas pipe or fixture, an intermediate unthreaded portion, and an upper threaded portion of two different diameters, a clamping device seated on the unthreaded portion of the nipple, and a nut seated on the threaded portion of larger diameter and arranged to secure the clamping members, and a reflector or shade having a support projecting inwardly from one side thereof and engaging the clamping members; substantially as described.

7. In a reflector or shade holder, a curved rigid arm for the shade arranged to slide through a socket on the supply pipe and tilt the shade into different positions, with means for clamping the same into adjusted position.

In testimony whereof, I have hereunto set my hand.

NORMAN MACBETH.

Witnesses:

JOSEPH H. JOHNSON,  
W. A. DEVLIN.