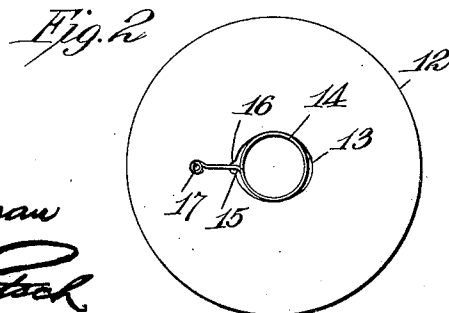
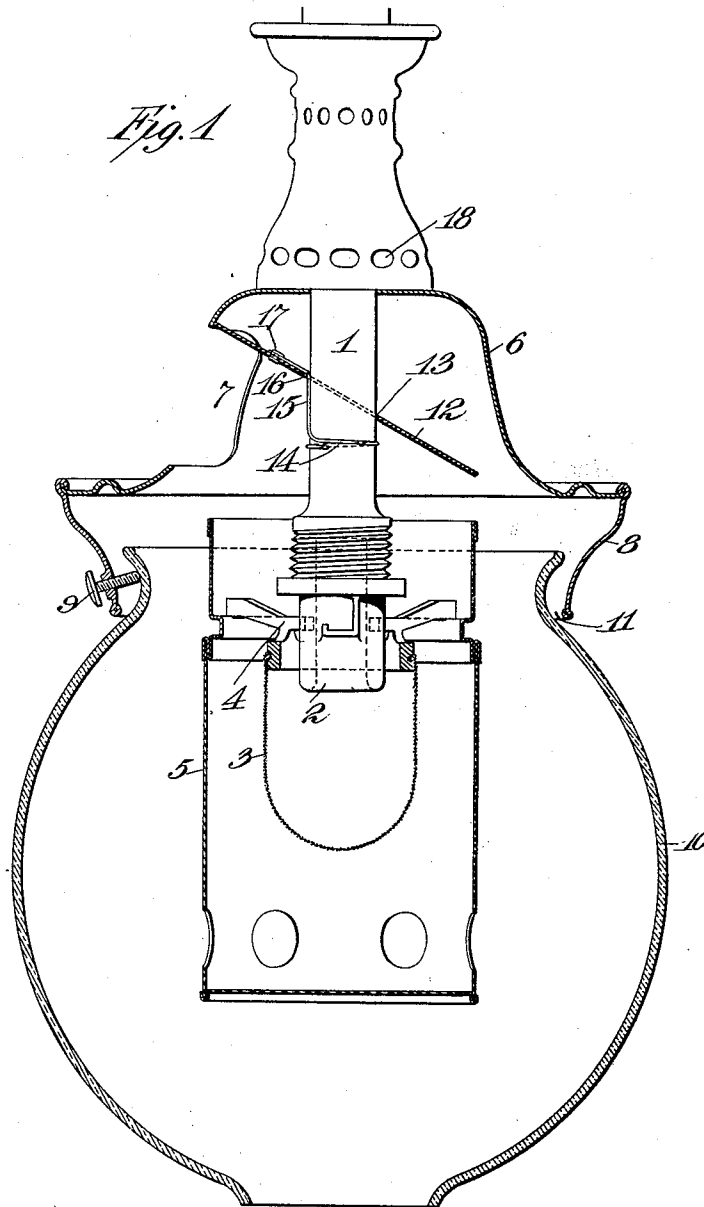


A. P. STORRS.
BURNER.
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1,000,048.

Patented Aug. 8, 1911.



Witnesses:

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UNITED STATES PATENT OFFICE.

AARON P. STORRS, OF OWEGO, NEW YORK, ASSIGNOR TO STORRS MICA COMPANY, OF
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BURNER.

1,000,048.

Specification of Letters Patent.

Patented Aug. 8, 1911.

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To all whom it may concern:

Be it known that I, AARON P. STORRS, a citizen of the United States, residing in the city of Owego, county of Tioga, and State of New York, have invented a certain new and useful Improvement in Burners, of which the following is a specification.

My invention is particularly applicable to gas burners of the type characterized by an inverted mantle surrounded by a chimney and globe, and its general object is to provide, for a burner of this kind, a deflector by means of which the heated gases evolved by combustion will be harmlessly disposed of and by which the hood and other portions of the gas fixture will be protected from heat. These and further objects of my invention will appear from consideration of the embodiment thereof set forth in the following specification and accompanying drawings, in which—

Figure 1 is a view partly in section, of a burner, mantle, chimney and globe, with appurtenances embodying my invention. Fig. 2 is a plan view of the deflector.

In both of the views, like parts are designated by the same reference characters.

In Fig. 1, the Bunsen tube 1, the burner tip 2, the mantle 3 and the mantle ring 4 are of the usual and well known character. The chimney 5 is of mica and is supported in position in the manner illustrated in my pending application for patent filed June 23, 1910, Ser. No. 568,464. It will be understood that any other form of chimney, mantle, ring, tip or tube may be employed, those illustrated forming no portion of the present invention. The hood 6 is of the usual type, having an opening 7 for ventilation. This hood has a depending skirt 8 and a plurality of screws 9. These screws support and center the globe 10. When in position there is an annular opening 11 between the globe and the skirt 8.

The improved deflector or shield 12 is of any suitable material. In practice I prefer to make it of mica, which is light, easily worked, and heat resisting. This deflector is of circular shape, and is provided with an oval opening 13 in the center. This oval opening in its least diameter is equal to the diameter of the tube 1, and is made oval so as to permit the deflector to be inclined, as shown in Fig. 1. This deflector is support-

ed upon the tube 1, and is preferably so supported as to be adjustable up and down upon the latter to accommodate different kinds of burners. The means for supporting the deflector upon the tube comprises a wire or spring 14, which has a portion 60 bent to encircle the tube 1. This portion, when in position, will lie horizontally. A vertical portion 15 of the wire extends up the side of the tube and passes through the opening 13. To permit this portion of the wire to pass between the deflector and the tube a notch 16 is provided in the opening 13. The wire passes then over the top of the shield and is secured in position by means of a rivet 17. By passing the wire from the under side of the shield through the notch 16, a more rigid support may be had, particularly when the device is slid up and down on the burner tube.

When in the position shown in Fig. 1, the hot gases resulting from the combustion in the burner will strike the deflector and be deflected through the ventilating opening 7. This will protect and keep cool the other side of the hood 6, and will also deflect the heated gas away from the other portions of the fixture. At the same time, the cold air will be drawn upward through the annular opening 11, and over the top of the deflector, cooling the latter and also cooling the inside of the hood.

In accordance with the provisions of the patent statutes, I have described the principle of my invention, together with the apparatus which I now consider to represent the best embodiment thereof; but I desire to have it understood that the apparatus shown is merely illustrative and that the invention may be carried out in other ways.

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

1. A deflector for a gas burner comprising a disk having an oval opening therein through which the burner tube passes, and a wire support secured to said disk and surrounding the burner tube and adapted to hold said disk in an inclined position with reference to the burner tube.

2. A deflector for a gas burner having a disk, an opening therein, a wire support having a portion on one side of said disk adapted to engage with the burner tube and

a portion which passes through the opening of the disk and is attached to the other side of the disk.

5 3. A deflector for a gas burner which comprises a disk with an oval opening therein and a notch on one edge of the opening, a wire support attached to one side of the disk and passing through the

notch and having a circular coil at the other end.

This specification signed and witnessed this 13th day of August, 1910.

AARON P. STORRS.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."