(No Model.)

W. M. NOEL.

GAS BURNER.

No. 313,834. Patented Mar. 10, 1885.

Fig. 1.

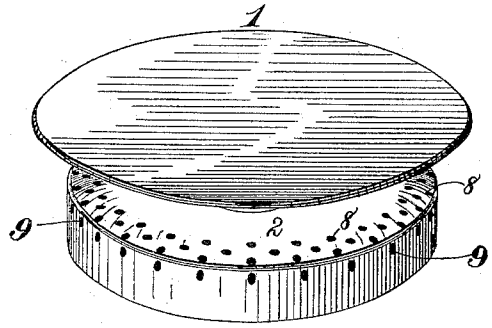
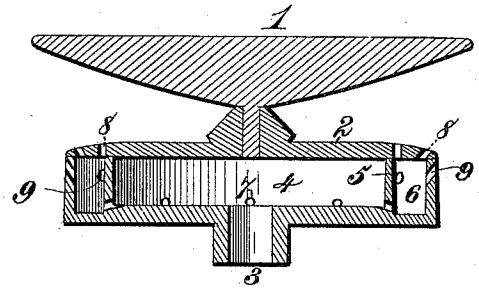


Fig. 2.



Witnesses.
Robt Everett.
J. A. Rutherford.

Inventor.
William M. Noel.
By James L. Norris.
Atty.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM M. NOEL, OF WARREN, PENNSYLVANIA.

GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 313,834, dated March 10, 1885.

Application filed December 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. NOEL, a citizen of the United States, residing at Warren, Pennsylvania, have invented new and useful Improvements in Gas-Burners, of which the following is a specification.

My invention relates to gas-burners, and the purpose thereof is to supply a superheating-burner which is adapted to consume gas from an oil-well or other natural source.

My invention consists in the several novel features of construction and combinations of parts, hereinafter fully set forth, and definitely pointed out in the claims.

Referring to the drawings, Figure 1 is a view in perspective. Fig. 2 is a central vertical section.

In the said drawings, the reference-numeral 1 denotes the deflecting-disk, which is centrally mounted upon a cylindrical chambered burner, 2. This burner is supplied with gas from a pipe, 3, which enters an inner chamber, 4, of the burner, separated by a concentric ring, 5, from an outer annular space, 6. The inner chamber, 4, communicates with the space 6 by means of apertures 7, and that part of the burner 2 which lies directly over the annular space 6 is thickly perforated with openings 8 for the escape of the gas. These openings are preferably formed in such manner that they diverge upwardly, the outer apertures forming a greater angle with the axis of the burner than the inner. A series of openings, 9, may also be formed in the outer periphery of the cylindrical burner, having an upward and an outward or radial direction.

The burner heretofore described may be varied in some particulars without departing from my invention.

I am aware that deflecting-buttons have before been used, and also that burners having inner and outer annular chambers are old; therefore I claim neither of them *per se;* but

What I do claim is—

1. A superheating gas-burner consisting of a deflecting-disk and a cylindrical chambered casing, upon which it is mounted, and which is divided into an inner and an outer annular space, substantially as described.

2. In a superheating gas-burner, the combination, with a casing having an inner gas-chamber and an outer annular space communicating with it, of a burner having apertures opening from the outer space, and a deflecting-disk, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM M. NOEL.

Witnesses:
L. R. FREEMAN,
W. G. TRUNKEY.