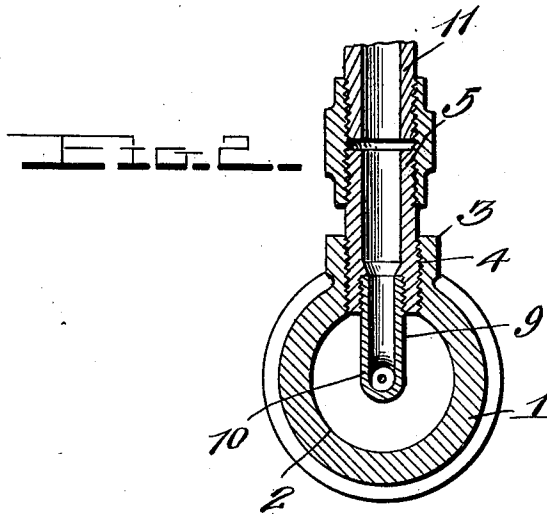
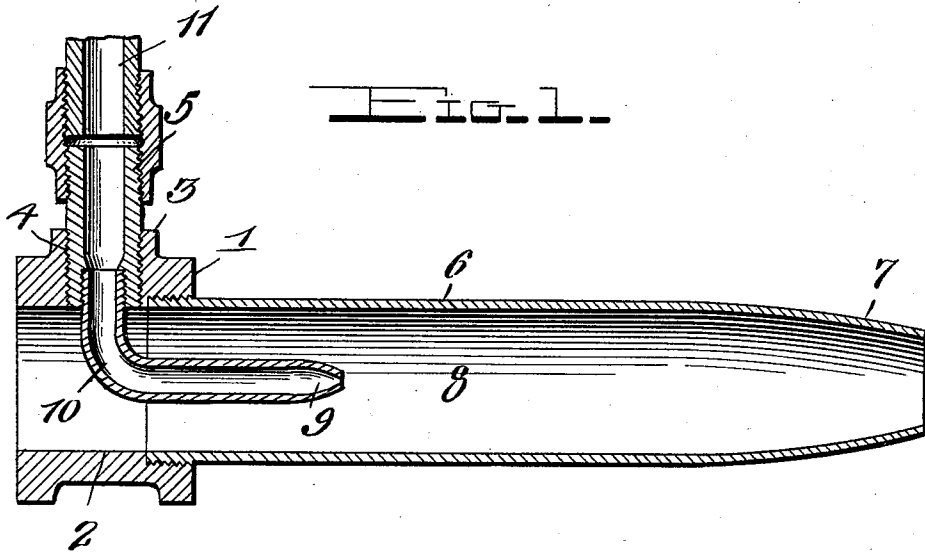


S. B. WARNOCK.
GAS BURNER.
APPLICATION FILED NOV. 28, 1910.

1,007,162.

Patented Oct. 31, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL B. WARNOCK, OF CATLETTSBURG, KENTUCKY.

GAS-BURNER.

1,007,162.

Specification of Letters Patent.

Patented Oct. 31, 1911.

Application filed November 26, 1910. Serial No. 594,407.

To all whom it may concern:

Be it known that I, SAMUEL B. WARNOCK, a citizen of the United States, residing at Catlettsburg, in the county of Boyd and State of Kentucky, have invented certain new and useful Improvements in Gas-Burners, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention is an improved gas burner and consists in the construction, combination and arrangement of devices hereinafter described and claimed.

15 In the accompanying drawings—Figure 1 is a vertical longitudinal sectional view of a gas burner constructed in accordance with my invention. Fig. 2 is a vertical transverse section of the same.

20 In the construction of my improved gas burner I provide a cylindrical base member 1, which has a bore 2 extending therethrough from end to end, the said bore being open at its ends, and forming an air chamber in the said base member. At one end of the bore, the base member is provided with interior screw threads. The base member is provided on one side with a boss 3 which is provided with a threaded opening 4 in which is screwed one end of a threaded tubular nipple 5, the said tubular nipple being also provided with interior screw threads at and extending from its ends.

25 A tubular nozzle 6 which has its outer end tapered as at 7 has its inner end provided with screw threads which are engaged with the interior screw threads in one end of the base member 1 so that the said nozzle is detachably connected to the base member 1. The said nozzle being thus in communication with the air chamber 2 in addition to acting as a nozzle, also serves to form a mixing chamber 8. The gas jet nozzle 9 is disposed in the inner end of the mixing and discharging nozzle 6 and is provided at its inner end with an elbow 10 the end of which is screw threaded and has threaded engagement with the inner end of the tubular nipple 5. The threaded connection between the gas jet and the nipple is of the same pitch as that between the nipple and the air cham-

ber. Hence the gas jet may be detached from the burner by first unscrewing the nipple 5 to which the gas service pipe 11 is connected.

By my improved construction of burner, the same comprises only four parts to wit, the base member, the nipple, the gas jet nozzle and the mixing and discharging nozzle, and all of the parts of the device are detachable, and any one of them may be renewed or replaced by another at very slight expense.

In the operation of my improved burner, the gas jet discharged from the nozzle 9 through the nozzle 6, creates suction in the air chamber 2 and causes air to be supplied from said chamber into the mixing chamber 8 of the nozzle 6, and hence the gas is mixed with a sufficient quantity of air in the mixing nozzle or chamber to produce a highly combustible mixture which burns in a flame or jet projected from the outer end of the nozzle 6.

I claim:—

The herein described gas burner comprising a base member having an opening extending therethrough, from end to end, and forming an air chamber, the said base member being further provided with a threaded opening in one side, a gas supplying tubular nipple having exterior threads engaging those of the said threaded opening of the base member, and also provided with interior threads, a gas jet nozzle having its inner portion disposed in the air chamber and provided with an elbow which is externally threaded and engaged with the interior threads of the inner end of the gas supplying nipple, and a mixing and discharging nozzle having its inner end screwed to the base member, and communicating with the air chamber thereof, the said gas jet nozzle being disposed in the inner end of the said mixing and discharging nozzle.

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

SAMUEL B. WARNOCK.

Witnesses:

JOHN H. REEVES,
S. W. PORTER.