(No Model.)

# A. W. BEALL.

## BURNER FOR GAS STOVES.

No. 329,527. Patented Nov. 3, 1885.

Fig. 4.

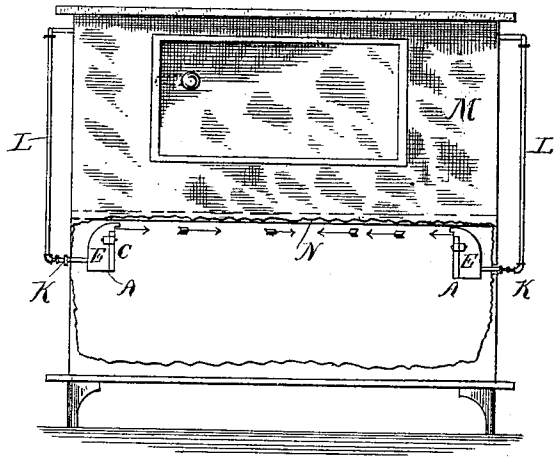



Fig. 1

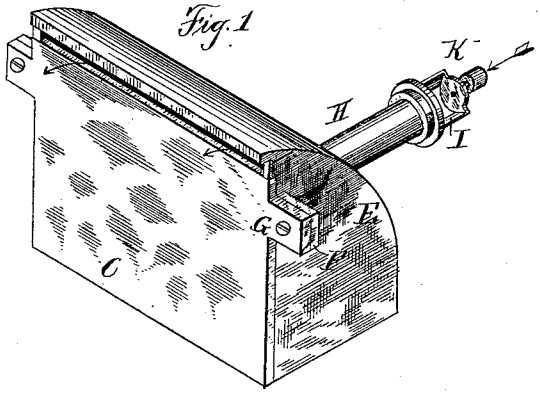



Fig. 2.

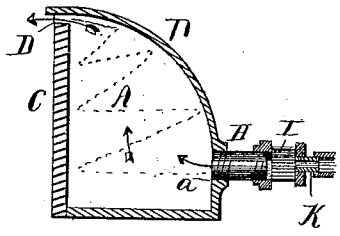
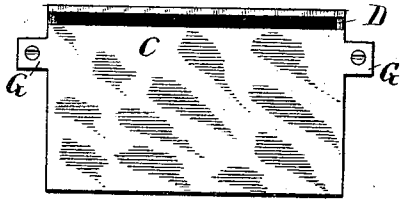



Fig. 3.




Witnesses.
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# UNITED STATES PATENT OFFICE.

AUGUSTUS W. BEALL, OF DAYTON, OHIO.

## BURNER FOR GAS-STOVES.

SPECIFICATION forming part of Letters Patent No. 329,527, dated November 3, 1885.

Application filed April 6, 1885. Serial No. 161,271. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUSTUS W. BEALL, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Burners for Gas-Stoves, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to burners for gas-stoves; and it consists in certain details of construction and arrangement of parts, as hereinafter specified and claimed.

The object of the invention is to produce a burner in which the gas shall be mixed with a proper proportion of air for combustion, and the flame directed in a thin film over a large surface.

In the drawings, Figure 1 is a perspective view of one of my burners for gas-stoves. Fig. 2 is a cross-section of the same. Fig. 3 is a face view of the burner; and Fig. 4 is a front view of gas stove or oven with two of my burners applied, the front of the stove being partly broken away.

A indicates the body of the burner. This is of metal, preferably cast for cheapness of construction, the arched portion B forming the back and top and the removable plate C forming the front of the burner. The part B slightly overhangs the front plate, C, and a narrow passage, D, is left between the same. The end plates, E, have preferably a projection, F, to which the extensions G of the front plate may be screwed. The pipe H enters the back of the burner, and opens directly toward the flat front plate. On this pipe H, a little in the rear of the burner, there is an enlarged chamber, I, which has apertures for the entrance of external air, and the nipple K, connected to gas-supply pipe L, leads to this chamber. The burners A A are arranged, preferably, on opposite sides of the stove M, as shown in Fig. 4, with the openings facing each other, and a little below the main heating-plate N of the stove. When gas is turned on, the entering current of air and gas at *a* is mixed in the body of the burner, and, being ignited at D, where it issues from the burner, is spread out into a broad film.

The burners can be used with any form of gas-stove. I prefer to use them in pairs, as shown, under the heating or oven plate of a cooking-stove, in which case the heat and flame from the burner will be spread very evenly across the bottom surface of the plate, the flame from the two burners meeting at the central line of the oven-plate, and by the complete combustion of the gas a high degree of heat will be obtained, and offensive odor almost entirely avoided.

I claim—

1. A burner for gas-stoves, having flat bottom, ends, and face-plate, a single inlet which enters through the curved back, and a narrow outlet or burner-slot between the face-plate and curved top plate, substantially as described.

2. A burner for gas-stoves, having flat bottom, ends, and face-plate, a single inlet which enters through the curved back, a narrow burner-slot between the face-plate and curved top plate, and an overhang on the curved plate above said slot, extending in front of the face-plate, as set forth.

3. The combination, in a burner for gas-stoves, of the inclosing ends and bottom plate, and a supply-pipe entering through the arched back and opening directly toward the flat front plate, and the flat front plate, and the arched back and top plate, said top extending slightly beyond the face-plate and leaving a narrow opening between, as set forth.

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

AUGUSTUS W. BEALL.

Witnesses:
A. DE ARMON,
CHAS. I. WILLIAMS.