T. R. ALMOND.

GAS-BURNERS FOR PRODUCING HEAT.

No. 194,025. Patented Aug. 14, 1877.

Fig: 1

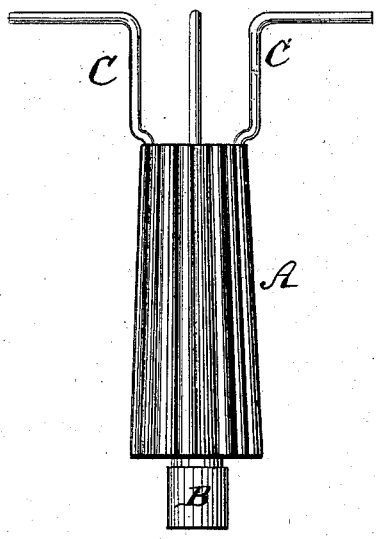


Fig: 2

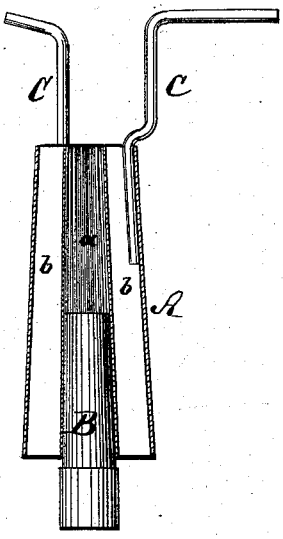


Fig: 4

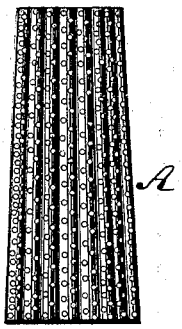
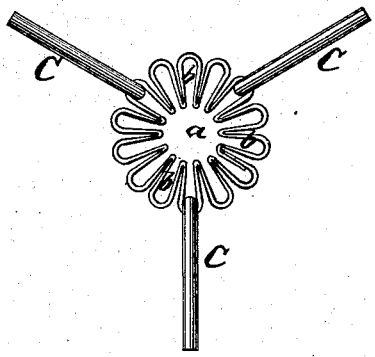


Fig: 3



Witnesses

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THOMAS R. ALMOND, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN GAS-BURNERS FOR PRODUCING HEAT.

Specification forming part of Letters Patent No. **194,025**, dated August 14, 1877; application filed January 6, 1877.

To all whom it may concern:

Be it known that I, THOMAS R. ALMOND, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Gas-Burner, of which the following is a specification:

Figure 1 is a side view of my improved gas-burner; Fig. 2, a vertical longitudinal section, and Fig. 3 a top view, of the same. Fig. 4 is a side view of a modification of the same.

Similar letters of reference indicate corresponding parts in all the figures.

This invention relates to a new gas-burner for producing a heating-flame, and is adapted to be placed over any ordinary illuminating-burner, or over any simple gas-pipe, its construction being such that it adapts itself readily to burners or pipes of varying sizes.

The invention consists, principally, of a burner made of crimped sheet metal, gauze, or equivalent material, in manner hereinafter described, and also in its connection with supporting-brackets.

The burner A, which, in side view, has the appearance of a fluted cylinder, truncated cone, or other shape, is made of one or more pieces of sheet metal, or equivalent material, crimped in manner substantially as indicated in Fig. 3, to produce an inner central opening, *a*, and grouped around the same are a series of vertical air-passages, *b b*. By crimping the metal in manner shown, the burner is made elastic, so that it may be placed upon a gas-supply pipe or illuminating-burner, B, of varying size. The spring in the crimped burner A will cause it to hug the supply pipe or burner B, and to support the burner A thereon; but suitable supporting-brackets may, if desired, be applied to the lower part of the burner A. The flutes or channels *b b* serve as air-supply passages for the gas to be consumed, and cause the crimped burner to produce a superior bluish heating-flame; but said channels *b* serve, also, the additional purpose of sockets for the wire brackets C C, that are inserted therein, in manner clearly shown in the drawing.

Upon these brackets the vessels or things to be heated may be placed.

It will be seen that this burner is very simple and inexpensive, self-adjusting, and compact; at the same time it is nearly perfect in its results.

The material of which it is made may either be solid, as in Fig. 1, or perforated, as in Fig. 4.

The brackets C C may be rigid or jointed. In the latter case they may, for transportation, be almost entirely concealed within the channels *b*.

I claim as my invention—

1. A heater or heater attachment to gas-burners, constructed of a fluted metallic tube, the flutes extending from end to end, to constitute self-adjusting fastening devices and form air-channels, substantially as herein shown and described.

2. The gas-burner A, having upright air-channels or flutes *b*, combined with the brackets C, placed therein, substantially as herein shown and described.

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