

No. 626,243.

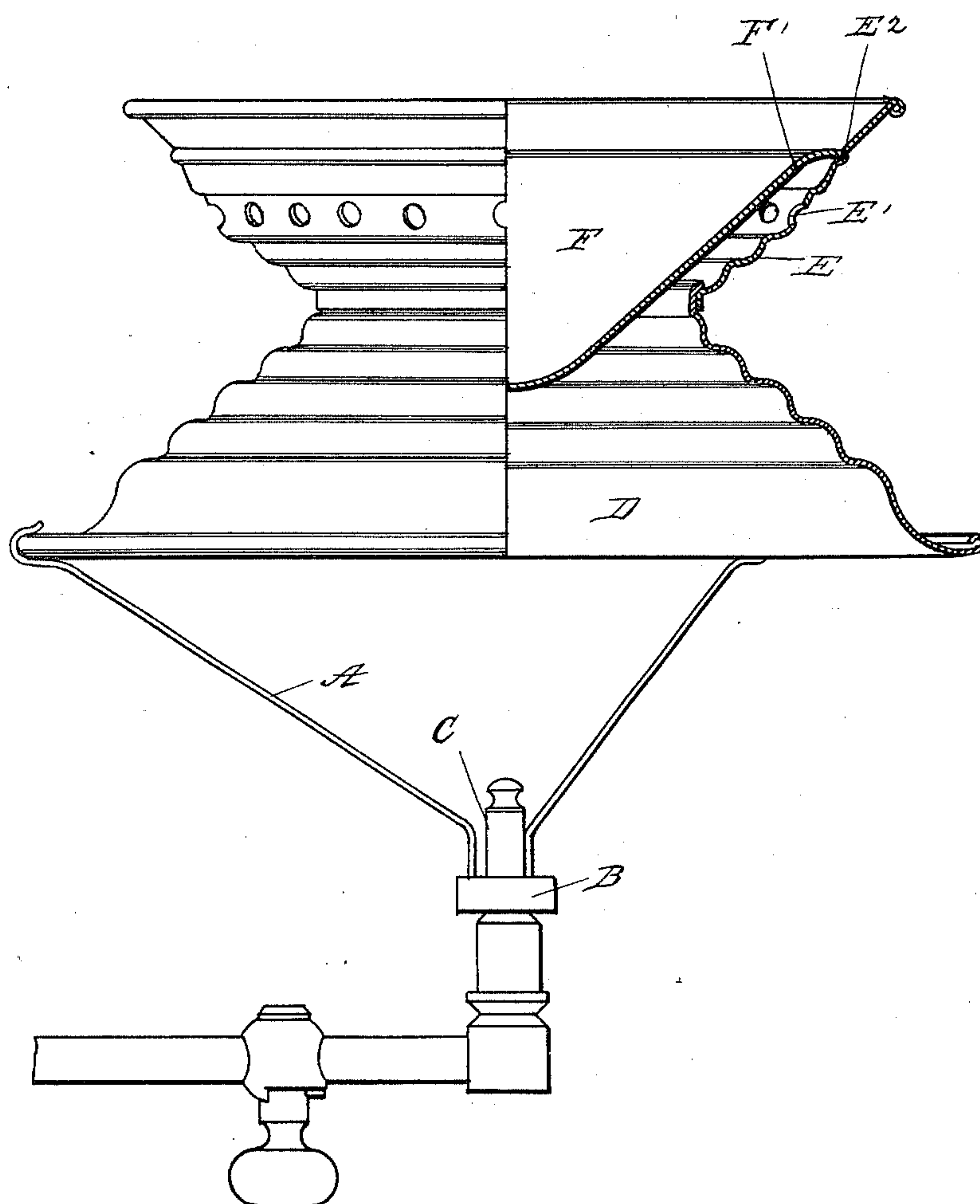
Patented June 6, 1899.

L. G. McKAM.

HEATING ATTACHMENT FOR GAS BURNERS.

(Application filed Feb. 13, 1899.)

(No Model.)



Witnesses:
D. C. Hanson
T. M. Currier.

Inventor:
L. G. McKam
by J. H. Anderson
Attorney

UNITED STATES PATENT OFFICE.

LAWRANCE GEORGE MCKAM, OF TORONTO, CANADA, ASSIGNOR OF THREE-FOURTHS TO BYRON ROOF, OF MINDEN, AND JOHN H. FLYNN, OF SYRACUSE, NEW YORK.

HEATING ATTACHMENT FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 626,243, dated June 6, 1899.

Application filed February 13, 1899. Serial No. 705,393. (No model.)

To all whom it may concern:

Be it known that I, LAWRANCE GEORGE MCKAM, a citizen of Canada, residing at Toronto, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Heating Attachments for Gas-Burners, of which the following is a specification.

This invention relates to heating attachments for gas-burners; and the object of my improvements is to provide a simple and efficient heater which will at the same time act as a reflector for the light and which may be readily mounted on any ordinary gas-burner.

The accompanying drawing represents a partly-sectional and partly-elevated side view of the heater in combination with a gas-burner.

A represents a supporting-frame comprising three upwardly-directed supporting-arms, which are joined at their lower ends by a ring B. This ring is adapted to fit snug over the burner C and hold the frame in an upright position. The upper ends of the supporting-arms are bent inwardly in order to better hold the reflector-cone, hereinafter referred to.

Loosely mounted on the upper ends of the supporting-arms is a cone-shaped reflector D, the upper small end of which is opened and joined to an inverted cone E. This cone is provided at its upper portion with an annular row of perforations E', through which the heated air escapes. Resting in a groove E² above the perforations and closing the upper large end of the inverted cone is a conical cup F, extending with its pointed end downward toward the burner and adapted to form a deflector for the heated air. This deflector is preferably provided at its upper end with an outwardly-extending rim or flange F', which engages the groove above mentioned and holds the lower portion of the deflector suspended, so as to leave an annular space between the said portion of the deflector and the inverted cone.

The heater having been mounted on the burner and the gas ignited, the heat from the flame passes upwardly and is deflected by the conical cup into the annular space between same and the inverted cone and finally escapes through the perforations in the cone.

The efficiency of the heater is due to the fact that the reflector-cone and the deflector present a great deal of radiating-surfaces which are subjected to the direct intense heat from the flame. By means of the annular space between the deflector and the inverted cone and the perforations communicating with said space a continual supply of fresh air is made to circulate over the radiating-surfaces.

The heater is adapted to be made of sheet metal, spun or pressed into cone-shaped shells, as shown.

In order to promote the durability and appearance of the heater, the reflector and the inverted cone are provided with annular corrugations. For the purpose of maintaining a bright finish, a requirement which is essential for the reflector, aluminium or some other non-corrosive metal should be used in the construction of the shells.

Composed of but three parts, this heater is extremely simple and inexpensive to manufacture. By means of the supporting-frame above described it is quickly mounted on any ordinary gas-burner and may be conveniently removed from one burner to another. By reflecting the light in a downward direction the illuminating effect of the light is increased at the points where it is most needed. The small and well-proportioned dimensions of the heater make it a very attractive fixture and adds greatly to the appearance of a burner.

I do not desire to limit myself to the particular shape and construction of parts as herein shown and described, but hold myself at liberty to make such changes as would fairly come within the scope of my invention.

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

1. A heater for gas-burners comprising a skeleton supporting-frame removably mounted on the burner, a conical reflector for the light mounted on the upper ends of the supporting-frame, an inverted cone joined to the upper small end of the reflector-cone, said inverted cone being provided at its upper portion with an annular row of perforations, a conical deflector resting in and closing the upper end of the inverted cone and arranged

to leave an annular space or passage between the deflector and the inner side of the inverted cone, substantially as described and for the purpose set forth.

- 5 2. A heater for gas-burners comprising a supporting-frame removably mounted on the burner, a conical reflector for the light mounted on the supporting-frame, an inverted cone joined to the upper small end of the reflector-
10 cone, said inverted cone being provided with

perforations, a conical deflector resting in and closing the upper end of the inverted cone and arranged to leave an annular space or passage between the deflector and the inner side of the inverted cone, substantially as described and for the purpose set forth. 15

LAWRANCE GEORGE MCKAM.

Witnesses:

JNO. LINDEN,
V. E. TODD.