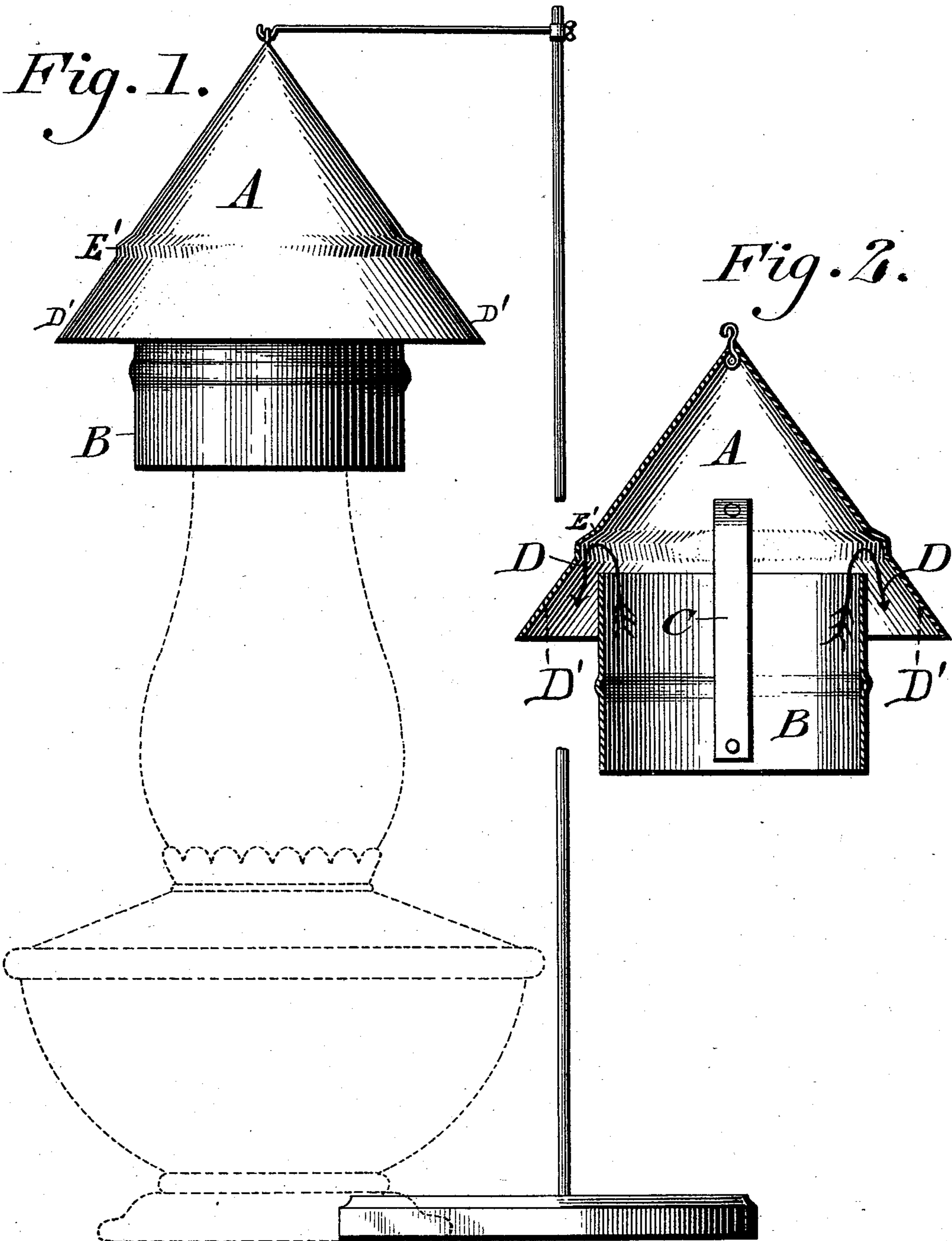


(No Model.)

C. S. JONES.
HEATER.

No. 498,122.

Patented May 23, 1893.



WITNESSES:

P. F. Hagler.
L. Douville.

INVENTOR
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UNITED STATES PATENT OFFICE.

CONRAD S. JONES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO MARY E. JONES, OF SAME PLACE.

HEATER.

SPECIFICATION forming part of Letters Patent No. 498,122, dated May 23, 1893.

Application filed November 19, 1892. Serial No. 452,480. (No model.)

To all whom it may concern:

Be it known that I, CONRAD S. JONES, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Heaters, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a heater formed as hereinafter described adapted to receive the products of combustion from a lamp or gas jet and deflecting the same in such manner as to heat the ascending cold air thus presenting an effective medium for producing large volumes of heat.

Figure 1 represents a side elevation of a heater embodying my invention. Fig. 2 represents a vertical section thereof.

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

Referring to the drawings: A designates a hood of conical or other form, and B designates a cylindrical or other shaped collar that is suspended within said hood and secured thereto by means of the arm C, or other suitable means, it being noticed that a passage D exists between the top of the collar and the adjacent portion of the hood, and the top of the collar is above the bottom of the hood, so that the lower portion of the latter forms a wide deflector as at D', which opens downwardly above the top of the collar, it being noticed that the cone is unbroken from base to point, and is closed at top. In the cone, between the base and point is an outwardly projecting shoulder E' which acts as an auxiliary deflector, and is located just above the top of the collar, so that when the combined pro-

ducts of combustion and air leave the top of the collar they expand and some of the same is impacted against said shoulder E' and thus deflected downwardly, and causing an increased downward draft, whereby the hot air is forcibly injected by the lower deflector D' through the open bottom of the hood D.

The operation is as follows: The device is sustained on a suitable stand, and the hood placed over a lamp chimney or gas jet, the products of combustion of which rise and enter the hood, and as fresh air is drawn into the latter it is subjected to the action of the heat therein and causes circulation of the same and its injection from the hood into the apartment, while the hood and collar also present heat-radiating surfaces which increase the effectiveness of the device.

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

1. A heater consisting of a cone, and a depending collar, said cone being closed at top, the top of the collar being within the cone and having a passage way between it and a projecting deflector on the periphery of said cone, said parts being combined substantially as described.

2. A conical hood having a collar suspended within the same, the lower end of the hood being below the top of said collar forming the main deflector D', the hood having above said collar the auxiliary deflector E', said parts being combined substantially as described.

CONRAD S. JONES.

Witnesses:

JOHN A. WIEDERSHAM,
A. P. JENNINGS.