E. D. Ashe. Lamp Chimney.

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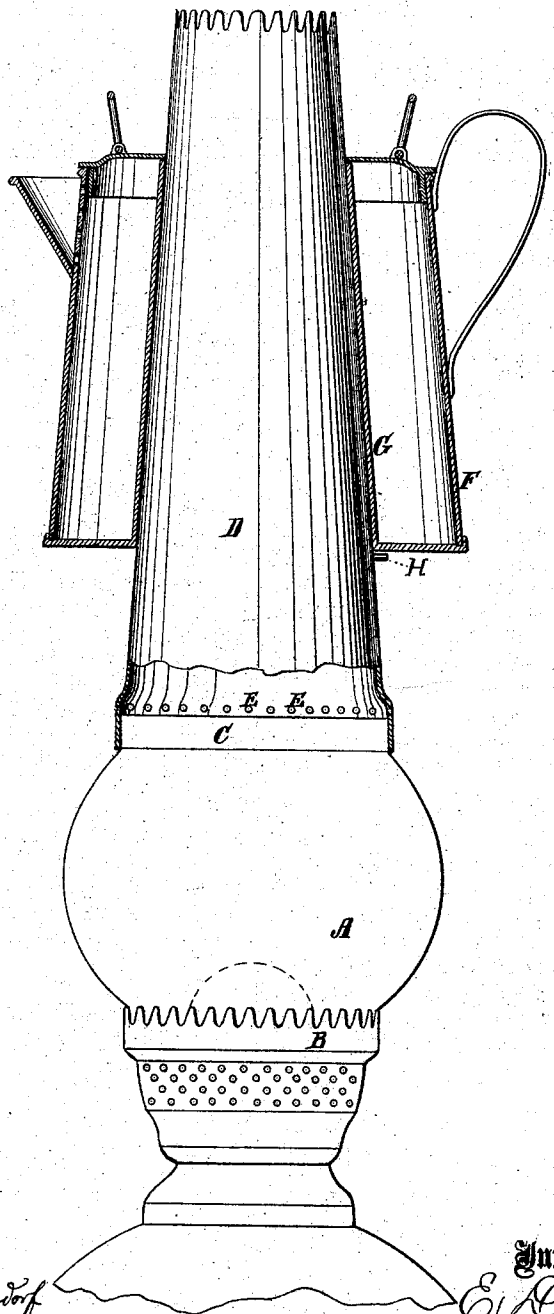
PATENTED AUG 1 1871



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD DAVID ASHE, OF BROMPTON, ENGLAND.

IMPROVEMENT IN LAMP-CHIMNEYS.

Specification forming part of Letters Patent No. 117,500, dated August 1, 1871.

To all whom it may concern:

Be it known that I, EDWARD DAVID ASHE, of Brompton, in the county of Middlesex, England, have invented a new and useful Improvement in Lamp-Chimneys; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention relates generally to lamp-chimneys, but particularly to a new way of adapting them to the heating of liquids in small quantities. This new way or principle consists in forming the upper section of the chimney of conducting and radiating material, which shall rapidly absorb the heat evolved from combustion and convey it to an adjacent vessel of water.

The said metal section is made conical, and is suited for the reception of small sheet-metal vessels having vertical central conical pipes through them, which may be put on for heating water or other substances.

The drawing represents my improved chimney in elevation, with a small part of the metal section broken out and a sectional elevation of a vessel applied for heating.

A is a short glass section, which is fitted to the lamp-top B in the ordinary or it may be any approved manner, and it may be in any approved form. It is provided with a cylindrical or slightly conical part, C, at the upper end. D is the tin or other sheet-metal section. It is fitted at the lower end on the part C, so as to hold with sufficient power by the frictional contact of the parts, and immediately above the top of the glass section it is provided with the air-holes E for admitting air to the flame at or above the top, by which the combustion is made more perfect, smoking prevented, and the flame improved in brilliancy. The said air-supply is derived from the volume of external air impinging against the base of the part A, and rising upward around it in consequence of being heated, and is thereby more favorable for combustion than the colder air would be. The metal section D is well adapted for the reception of tin or other vessels, F, with central tubes, G, provided for the purpose, for heating water or other liquids. H represents a series of studs arranged around the outer surface of section D and in the same horizontal plane. This forms a seat for the vessel to be heated, and prevents its becoming jammed on the chimney. Instead of these, however, an annular flange may be used and will serve the same purpose.

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

A section, D E, formed of radiating metal, and horizontally studded or annularly flanged at H, combined with the converging neck C of the glass section A, for the purpose specified.

E. D. ASHE.

Witnesses:

ALEXR. FORREST,

CHAS. F. DUFFET.