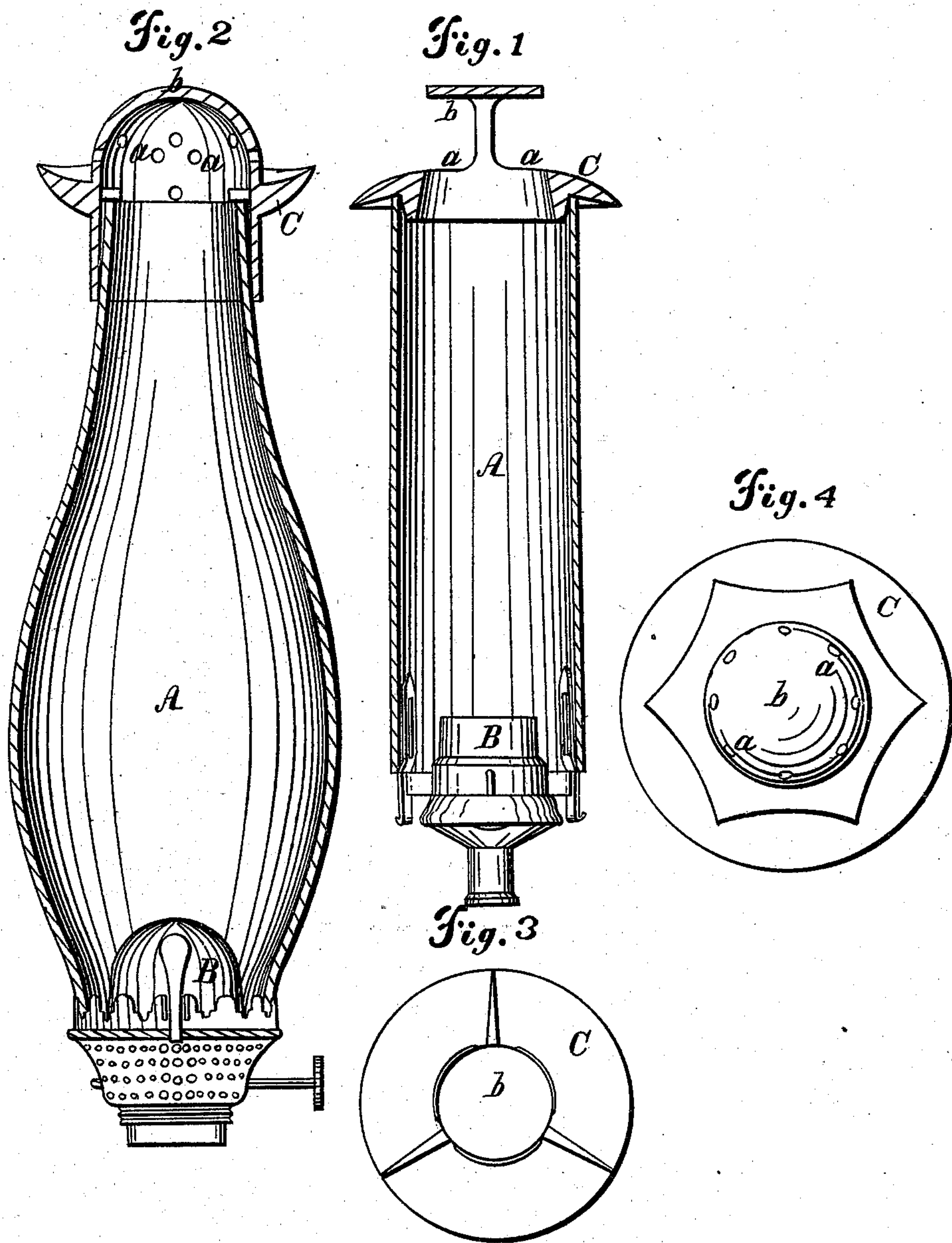


J. G. DREYFUS.
Lamp-Chimney Cap.

No. 89,743.

Patented May 4, 1869.



Witnesses,
W. C. Corbin
J. H. Haynes

Inventor,
J. G. Dreyfus

United States Patent Office.

JULES GEORGE DREYFUS, OF NEW YORK, N. Y.

Letters Patent No. 89,743, dated May 4, 1869.

CAP FOR LAMP-CHIMNEY.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JULES GEORGE DREYFUS, of the city, county, and State of New York, have invented a new and useful Cap for Chimneys to Gas and Lamp-Burners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figures 1 and 2 represent vertical sections of a gas-burner, or lamp-chimney, as applied to a burner, and with my invention applied to it under two different forms or styles of construction; and

Figures 3 and 4, plans or top views of the same.

Similar letters of reference indicate corresponding parts.

This my invention is applicable to chimneys of various kinds or shapes and materials fitted to or over gas-burners, kerosene, and other lamps. It will suffice here, however, to describe the improvement in connection with the burning of the ordinary coal-gas used for illuminating-purposes, though the same may be employed with like effect in the combustion of other gases, whether produced from solids or fluids.

The invention consists in a cap made in one piece, of porcelain or enamelled ware, arranged to fit on or within the top of the chimney to the burner, in such manner as to be carried by said chimney, and so constructed as that while, by suitable perforations or openings made in it, provision is made for keeping up the draught and for escape of the gaseous products of combustion, unconsumed gas escaping from the burner up the sides of the chimney is deflected or turned back again down the chimney, so as to be consumed by the burner-flame.

The advantages of an appendage of this description will be readily seen when it is considered that there has heretofore been not only much waste or loss of gas from the escape of it from the burner outside of the flame, and creeping of it without being consumed up the sides of the chimney and out through the top of the latter, but the deleterious effects of such escaping gas are oftentimes serious, both on the health of

those exposed to it and on various articles or goods, which are apt to be tarnished or injured by it.

These bad effects my invention obviates, doing away with the disagreeable odor too attendant upon the escape of unconsumed gas, and by the adoption of it, there will be found much economy and a stronger or intenser light without objectionable smoke or heat.

Referring to the accompanying drawing—

A represents a lamp or gas-burner chimney, fitted or applied to a burner, B, of any suitable description.

On the top of this chimney is seated or fitted, preferably in a loose or detachable manner, a cap, C, which may either be made to enter the upper portion of the chimney, as in fig. 1, or to embrace the chimney on the outside, as in fig. 2, and which, while it may be of varied configuration, is constructed to present any suitable number of openings, *a*, for keeping up the draught, and to provide for the escape of any gaseous products of combustion, with a shield or deflecting-surface, *b*, arranged to lie over the central portion of the chimney, so that any unconsumed gas creeping up the the sides of or within the chimney will be caused to strike said shield and be reverted or made to descend the chimney, so as to be consumed by the burner-flame.

I am aware that devices somewhat similar have been used heretofore, but they are constructed of mica, or other refractory substance, and being generally made of unsuitable forms for practical use, are destructible from the intense heat to which they are exposed, unsightly, and oftentimes expensive; such, therefore, I do not claim.

What is here claimed, and desired to be secured by Letters Patent, is—

A porcelain or enamelled chimney-cap, *b c*, with perforations *a*, constructed as shown and described, as a new article of manufacture.

JULES GEORGE DREYFUS.

Witnesses:

FRED. HAYNES,
JOHN D. ROSELL.