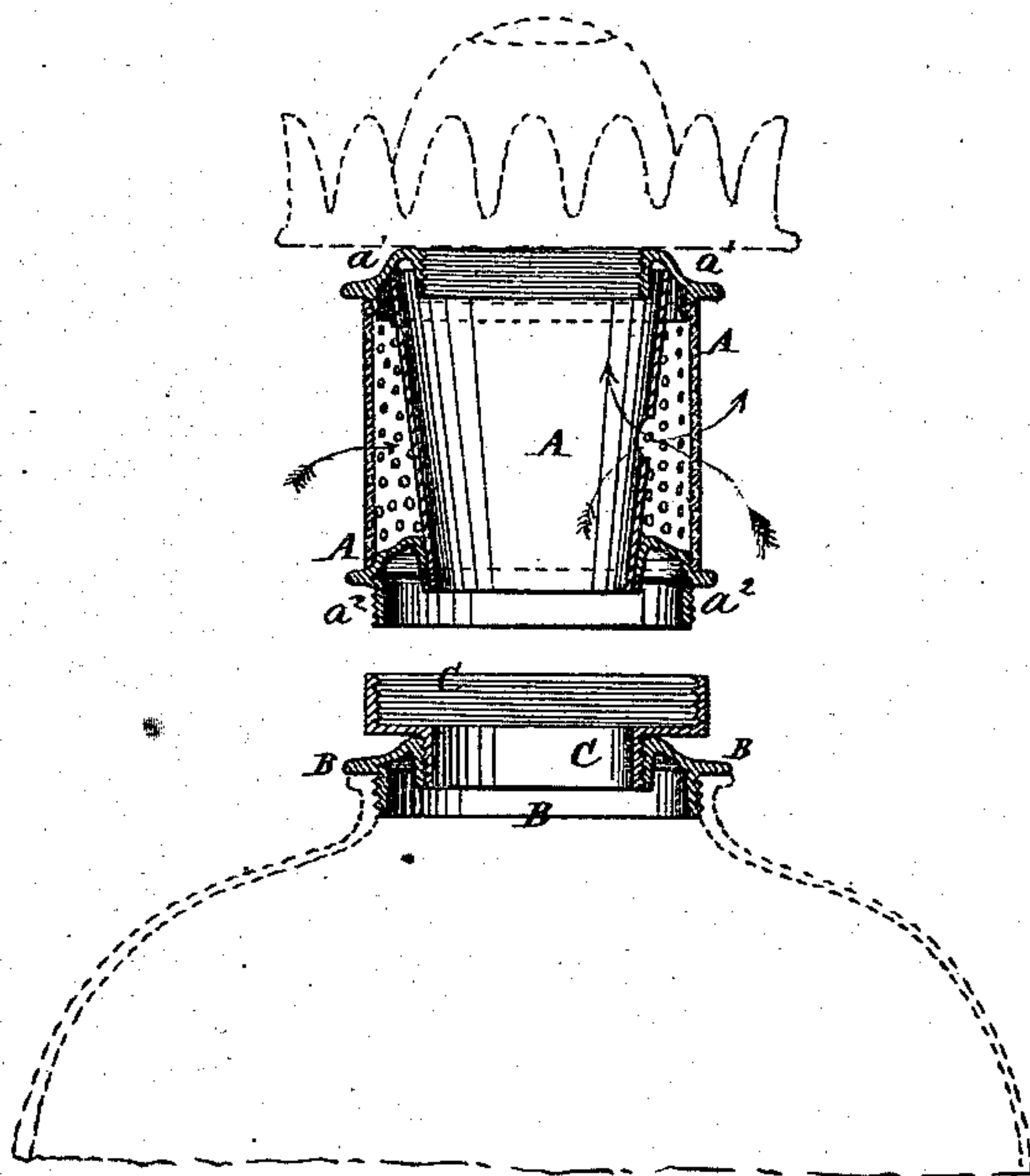


J. GLEASON.
Lamp-Burners.

No. 158,700.

Patented Jan. 12, 1875.



WITNESSES:
A. W. Almqvist
A. F. Terry

INVENTOR:
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UNITED STATES PATENT OFFICE.

JOHN GLEASON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **158,700**, dated January 12, 1875; application filed December 28, 1874.

To all whom it may concern:

Be it known that I, JOHN GLEASON, of Brooklyn, Kings county, New York, have invented a new and useful Improvement in Saftety Extension-Collar for Lamps, of which the following is a specification:

The figure is a vertical section of my improved extension-collar.

My invention has for its object to prevent the upper part of a lamp from being heated by the burner, and thus guard against explosion, and at the same time produce a better light. The invention consists in the safety extension-collar, formed of the double-walled body, having its outer wall finely perforated and a single hole in its inner wall, and provided at its ends with collars to adapt it to be interposed between the burner and collar of a lamp; and in the combination of an intermediate collar with the lower end of the extension-collar, as hereinafter fully described.

A represents the extension-collar, which is made cylindrical in form, and with double walls, connected at their upper ends by a ring-collar, a^1 , having a screw-thread cut in its inner surface to receive an ordinary burner. The double walls of the body A are connected at their lower ends by a ring-collar, a^2 , having a screw-thread cut upon its outer surface to screw into an ordinary lamp-collar, B, which is secured to the mouth of a lamp in the ordinary manner. In case the lamp-collar be too small to receive the lower end of the extension-collar, an intermediate collar, C, may be used, having its upper end large, with a screw-thread cut in its inner surface to receive the lower end of the extension-collar A, and hav-

ing its lower end small, and with a screw-thread cut in its outer surface to screw into the lamp-collar. The outer wall of the extension-collar A is made of finely-perforated sheet metal, and the inner wall is made of sheet metal with a small hole formed through it. With this construction the cold air will circulate freely through the space between the walls, so as to keep it always cool, and thus prevent the lamp from being heated. A portion of the cold air will also pass in through the hole in the inner wall, and will pass up around the wick, increasing the brilliancy of the flame. The hole in the inner wall of the extension-collar A will also allow any explosive gas that may be formed in the lamp to escape, thus further guarding against explosions.

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

1. The safety extension-collar, formed of the double-walled body A, having its outer wall finely perforated and a single hole in its inner wall, and provided at its ends with collars a^1 a^2 to adapt it to be interposed between the burner and collar of a lamp, substantially as herein shown and described.

2. The combination of an intermediate collar, C, with the lower end of the extension-collar A a^1 a^2 , substantially as herein shown and described.

JOHN GLEASON.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.