

E. KERSEY.
GAS BURNER TIP.

APPLICATION FILED MAR. 30, 1908.

903,579.

Patented Nov. 10, 1908.

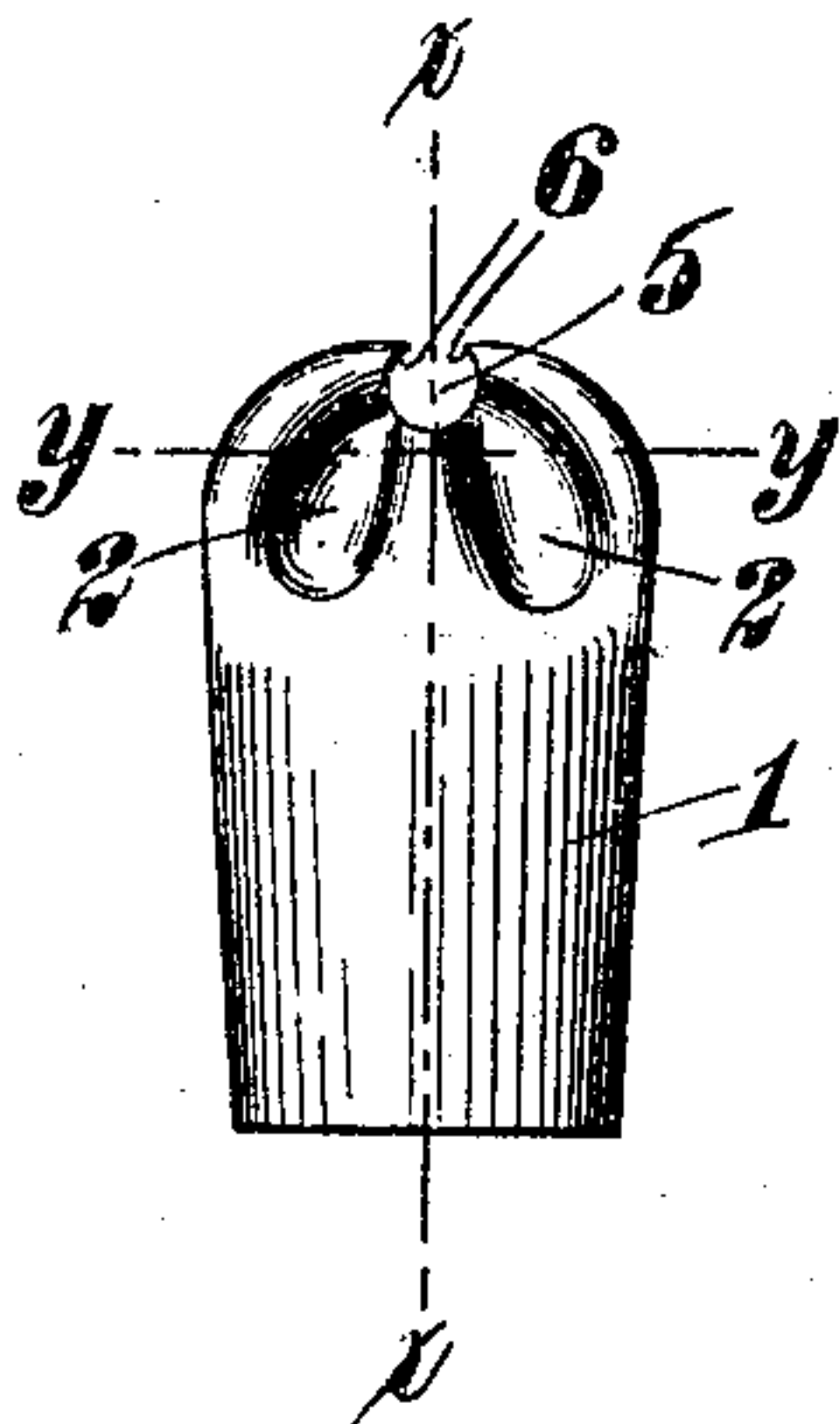


Fig. 1.

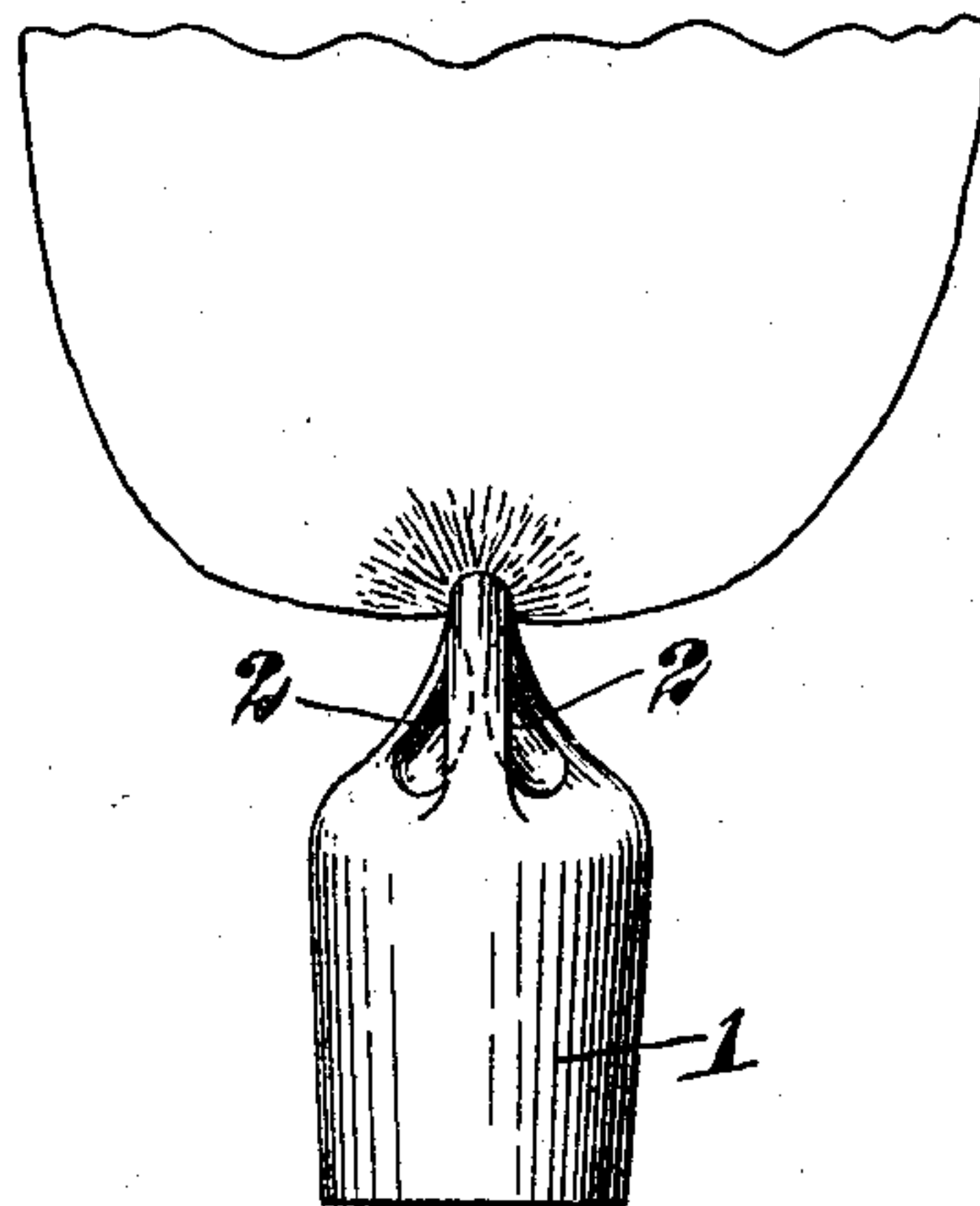


Fig. 2.

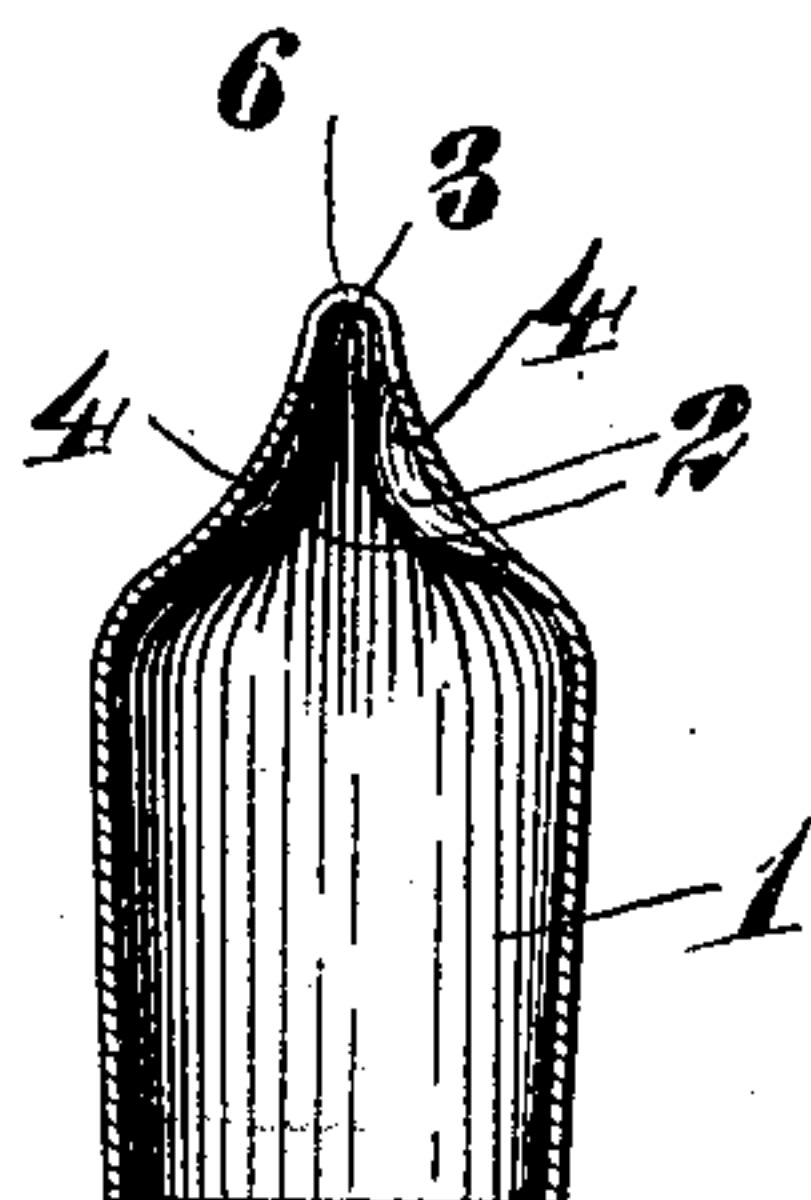


Fig. 3.

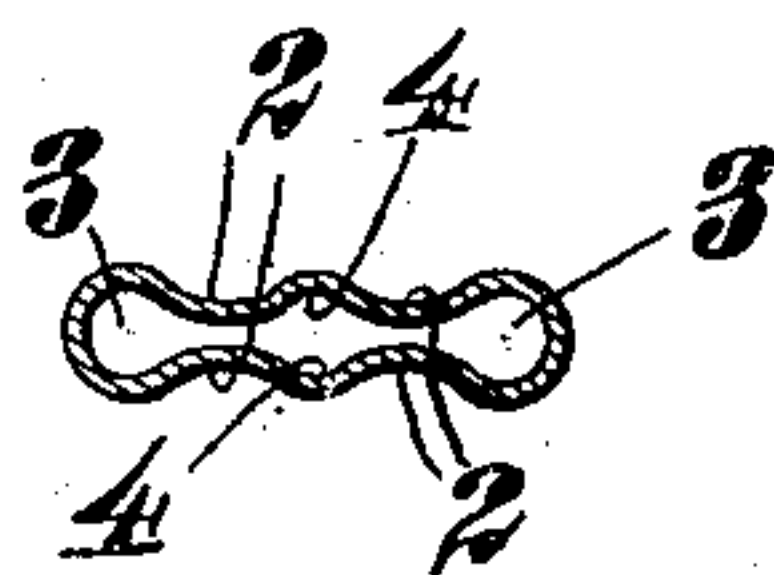


Fig. 4.

Witnesses;
A. A. Olson
R. J. McAllister.

Inventor;
Edward Kersey
by Joshua R. Potts.
Att'y.

UNITED STATES PATENT OFFICE.

EDWARD KERSEY, OF CHICAGO, ILLINOIS.

GAS-BURNER TIP.

No. 903,579.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed March 30, 1908. Serial No. 424,150.

To all whom it may concern:

Be it known that I, EDWARD KERSEY, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Gas-Burner Tips, of which the following is a specification.

My invention relates to burner tips for gas fixtures, and the object of my invention is to provide a tip which shall substantially prevent "blowing" of the gas and which will increase the luminous portion of the flame and decrease the non-luminous portion.

A further object of my invention, is to provide a tip which shall be of simple construction and easily manufactured.

Other objects will appear hereinafter.

My invention has particular reference to that form of gas tip characterized by a metallic thimble shaped member, compressed or indented at its upper end and transversely notched. Tips of this character, combine the features of the two general classes of tips, one of which is characterized by a transverse slit in the upper rounded end of the thimble and those characterized by a pair of small jet openings which are opposed to each other in such a manner that the streams of gas issuing therefrom, impinge against each other and form a flat flame at right angles to the issuing streams of gas.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side view of a burner tip embodying my invention in its preferred form, Fig. 2 is an edge view thereof, Fig. 3 is a section on the line $x-x$ of Fig. 1, and Fig. 4 is a section on the line $y-y$ of Fig. 1.

Referring to the drawings, 1 indicates a burner tip which is formed of a slightly tapered metal thimble. At the upper end

the opposite sides of the tip are flattened and are each provided with a pair of indentations 2—2 forming the passageways 3—3 and 4 for the gas. The tip is then transversely notched as at 5, a substantially circular hole being drilled through the tip forming the overhanging lips 6. The passageways 3 which are formed are curved upwardly and inwardly so that the streams of gas issuing therefrom, impinge against each other forming a blaze at right angles to the issuing streams of gas, the overhanging lips causing the flame to broaden at the base. In this manner the greater the pressure of gas, the broader the flame will be instead of narrower as is usual with the ordinary tip. The walls of the passageway 4 tend to throw a converging stream of gas in a plane at right angles to the streams issuing from the passageways 3 and in a plane with the flame. This I find aids in broadening the flame at the base, and also materially reduces the area of the non-luminous portion of the flame at the base and adjacent to the aperture.

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

A gastip comprising a thimble having its sides flattened at the top and transversely notched, lip portions over hanging said notch, said flattened sides being indented below and to each side of the notch, forming an enlarged central passage way, and a pair of converging passage ways through said lip portions, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD KERSEY.

Witnesses:

NANCY HELM,
HELEN F. LILLIS.