To all whom it may concern:

Be it known that we, PETER KELLER and PHILIPP SEILER, citizens of the United States, residing in the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Gas-Burner Tips, of which the following is a specification.

Our invention relates to gas burners and particularly to burner tips commonly used for the combustion of illuminating gas.

The object of our invention is to provide a burner or tip which is simple and inexpensive, which can be readily constructed by the ordinary processes of metal working, which produces a symmetrical and even flame, and will give a complete and economical combustion of the gas.

The invention consists in the shape and form of the several parts and their relation to each other, whereby the advantages above set forth are secured.

The principles of our invention are illustrated in the drawings, which represent a gas burner tip on an enlarged scale.

Figure 1 is a front view thereof; Fig. 2 is a section of the same on the line 2—2; Fig. 3 is a side view of our improved tip; Fig. 4 is a section of the same on the line 4—4, and Fig. 5 is a top view thereof.

As shown in the drawings our improved gas burner may be formed in a single piece and it may be drawn or otherwise formed from aluminum or other suitable metal.

The lower part consists of a tube 1 which incloses the lower gas chamber 2. The said walls are made convergent as shown at 3, and as they approach each other are given the curved outline 4. From said curved portions and integral therewith are produced rounded and upwardly extended flanges 5, which form a discharge slot 6 having adjacent and preferably parallel faces 7. The opposite sides of the tube adjacent to and below the ends of the slot are provided with deep indentations 8 whose lower parts within the tube are in a substantially straight line and transverse to the plane of the slot and form stops by which countercurrents are produced and distributed to the slot 6 in such a manner that broad symmetrical and rounded flame is the result. It has corresponding economy and high illuminating power.

We claim and desire to secure by Letters Patent the following:

1. A gas burner tip, having an upper portion produced to form integral imperforate parallel flanges having rounded edges and forming a slot between them communicating directly with the interior of the burner, and depressed portions in the tip adjacent to the opposite ends of the slot, the lower parts of said depressed portions inside the tip being in substantially straight lines and forming stops at right angles to the plane of the slot.

2. A gas burner tip consisting of a tubular body portion having the opposite sides of the upper part drawn in toward each other and extended upwardly to form integral imperforate flanges with their inner faces in parallel planes forming a slot between them, said slot communicating directly with the interior of the burner, the said tip being further provided with internally projecting rectilinear stops placed at each end of said slot and transversely thereto.

3. A gas burner having a tubular body with the upper portion thereof provided with integrally formed imperforate parallel flanges forming a slot between them, said burner being further provided with stops in the body portion below said flanges facing inside the burner to form an oblong passage-way between them, said passage-way and slot being so placed that vertical planes midway thereof will be at right angles to each other.

In witness whereof, we have hereunto set our hands, this 12th day of December A. D. 1907, in the presence of two subscribing witnesses.

PETER KELLER.
PHILIPP SEILER.

Witnesses:

C. K. CHAMBERLAIN,
A. S. PHILLIPS.