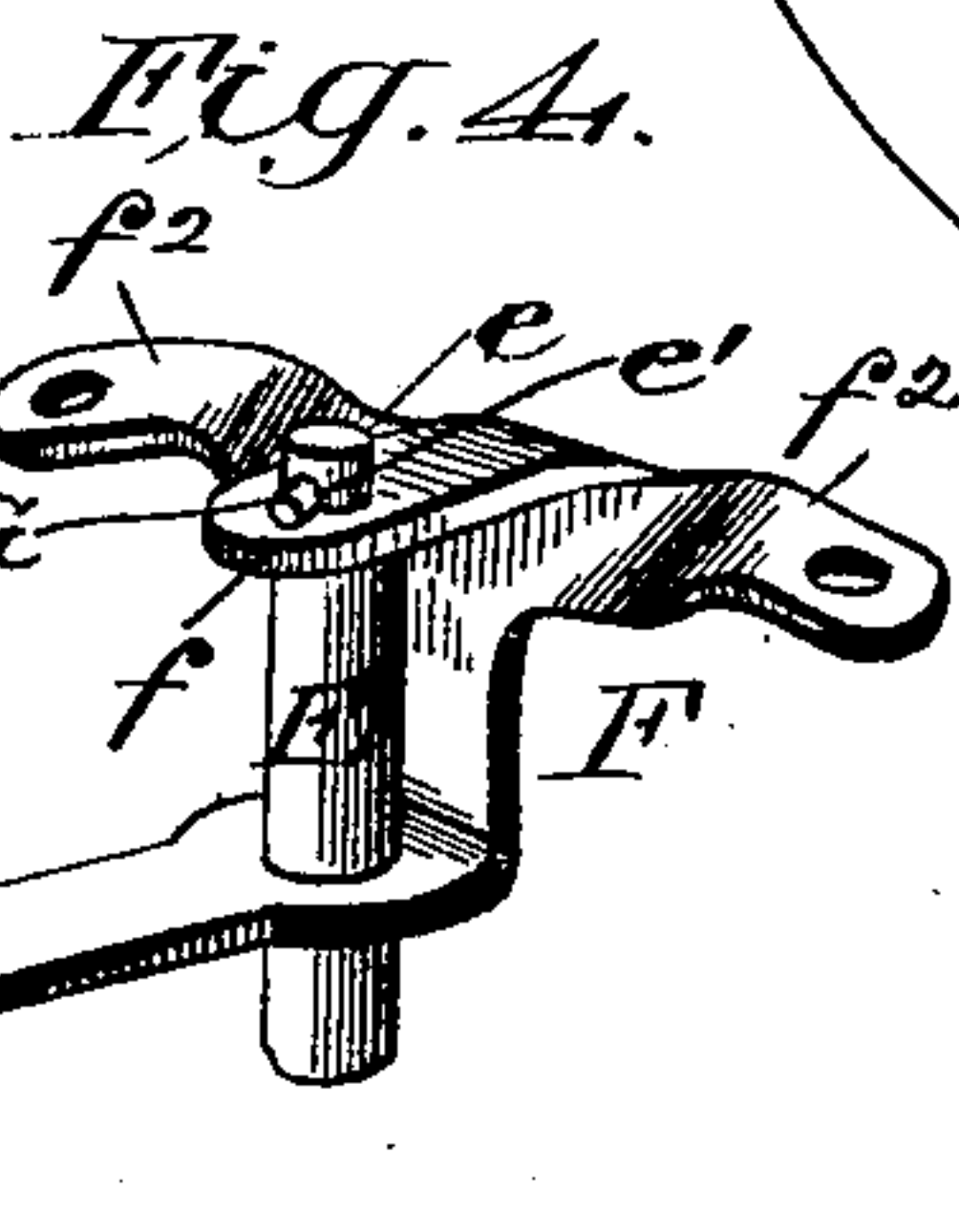
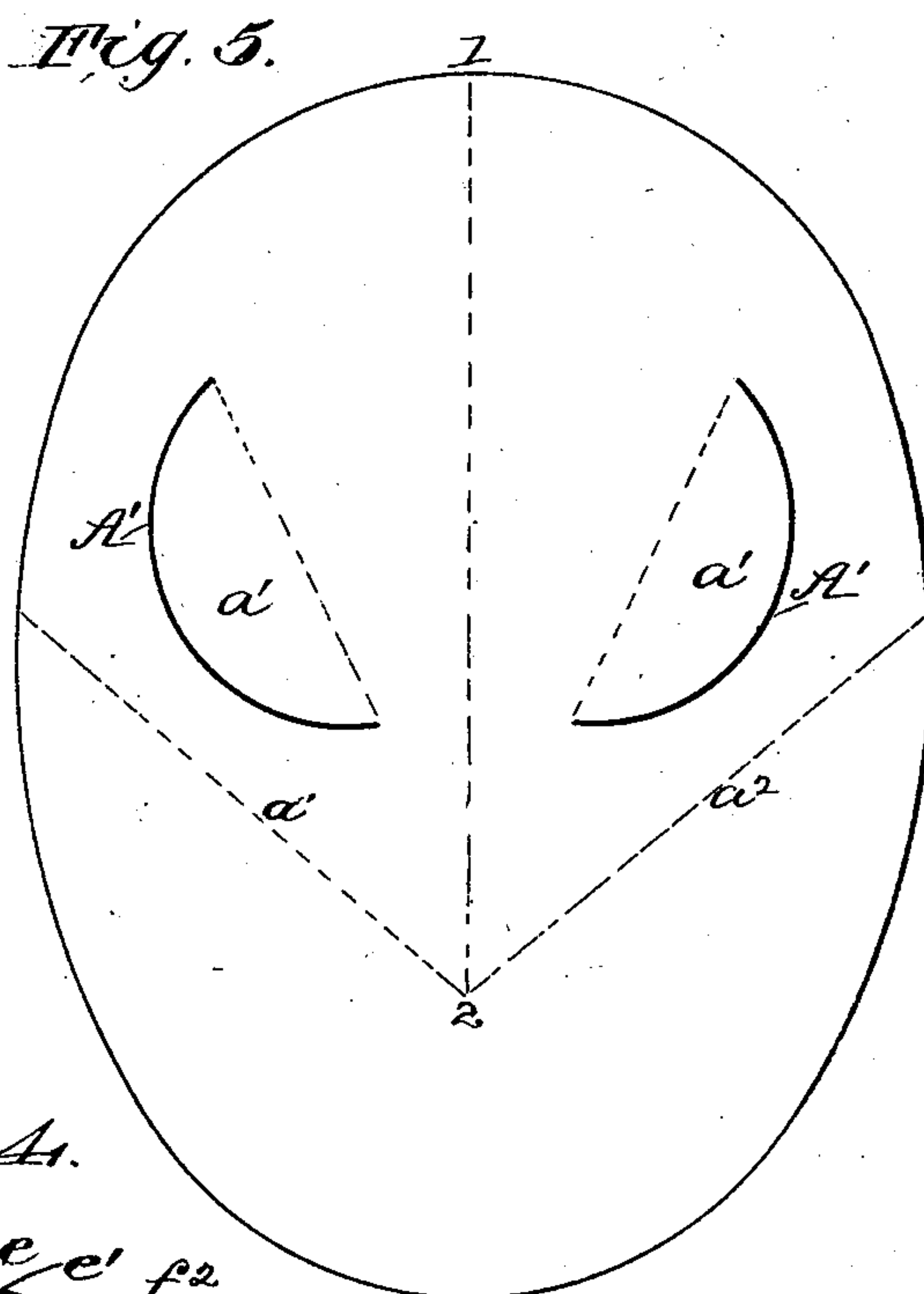
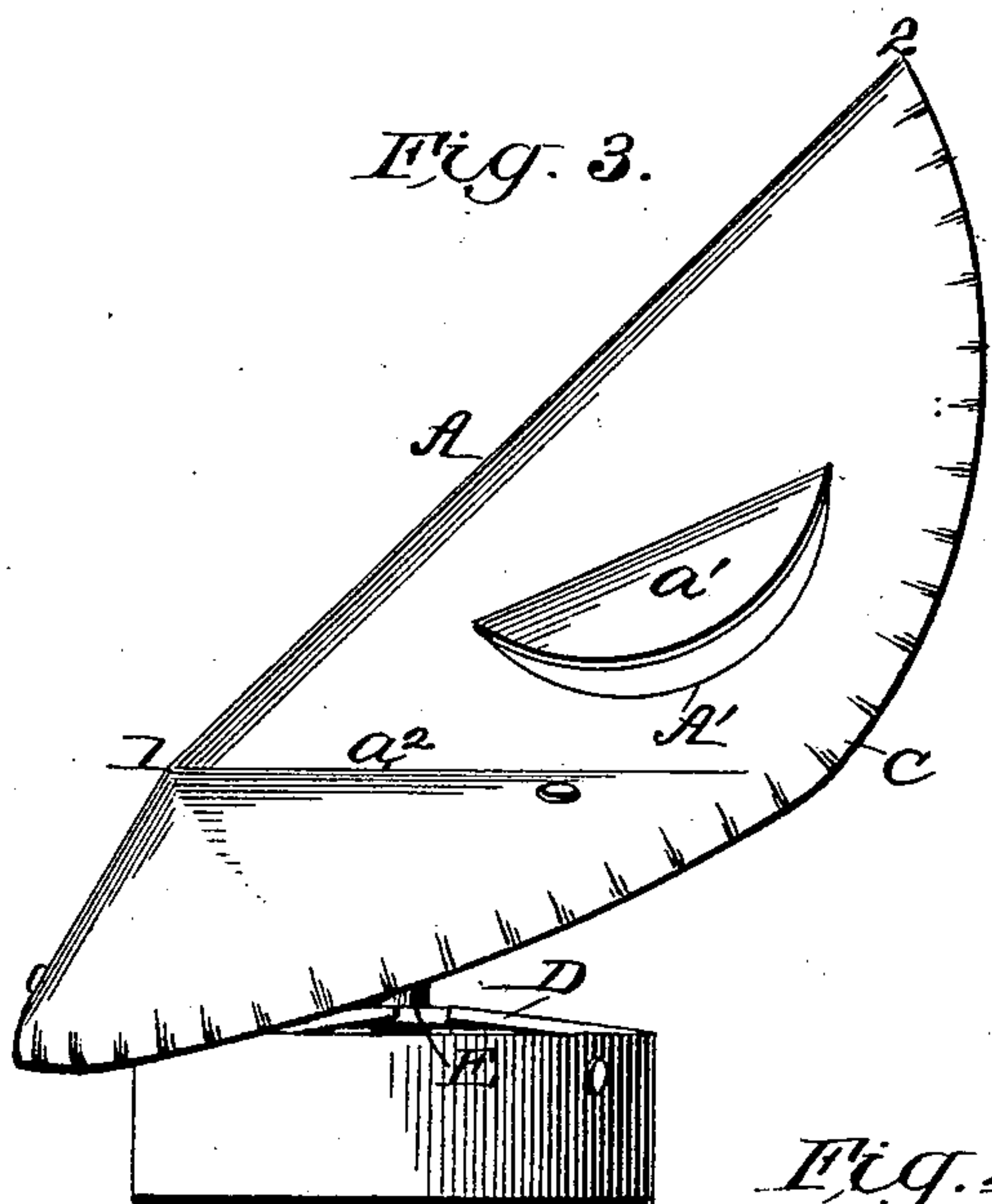
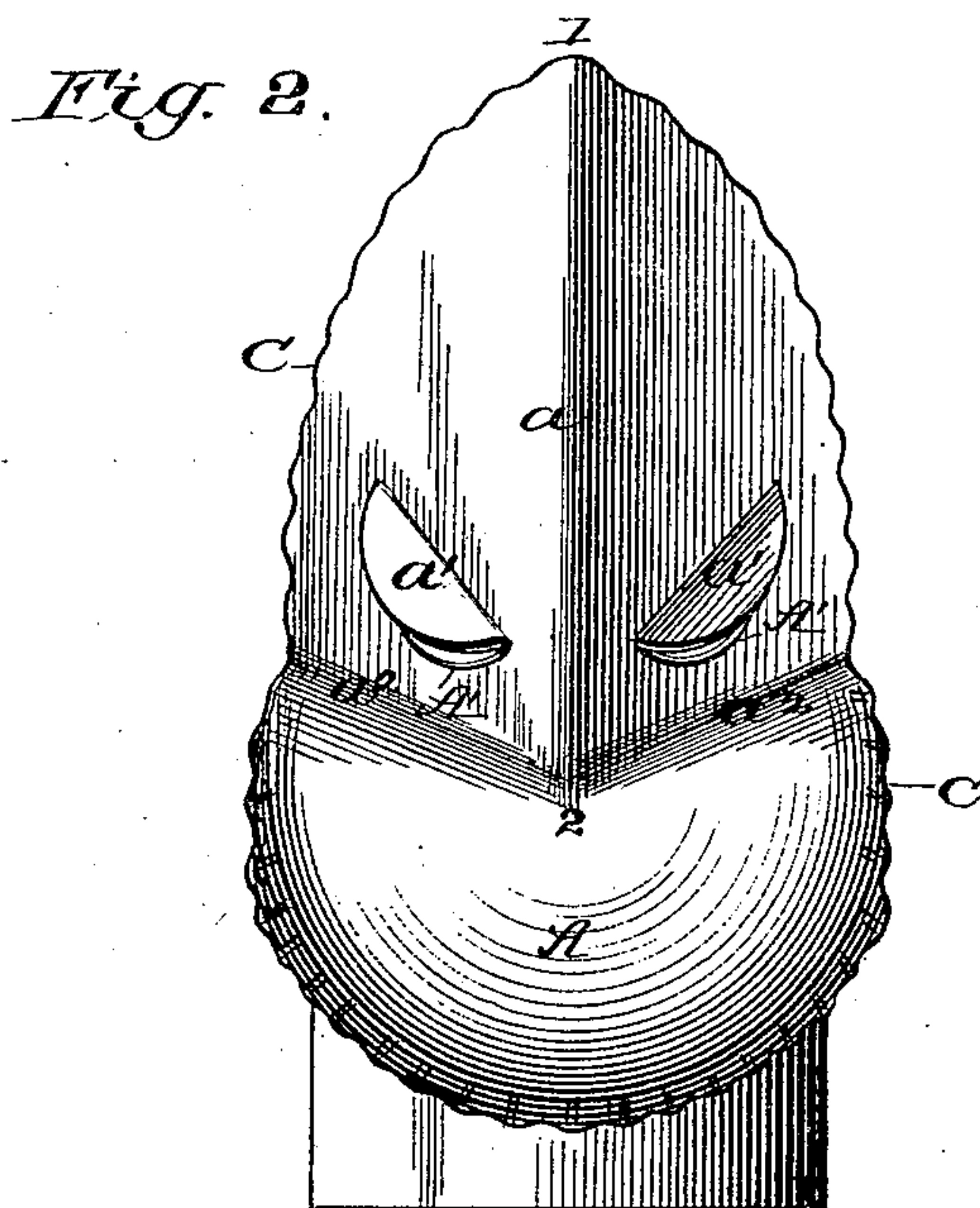
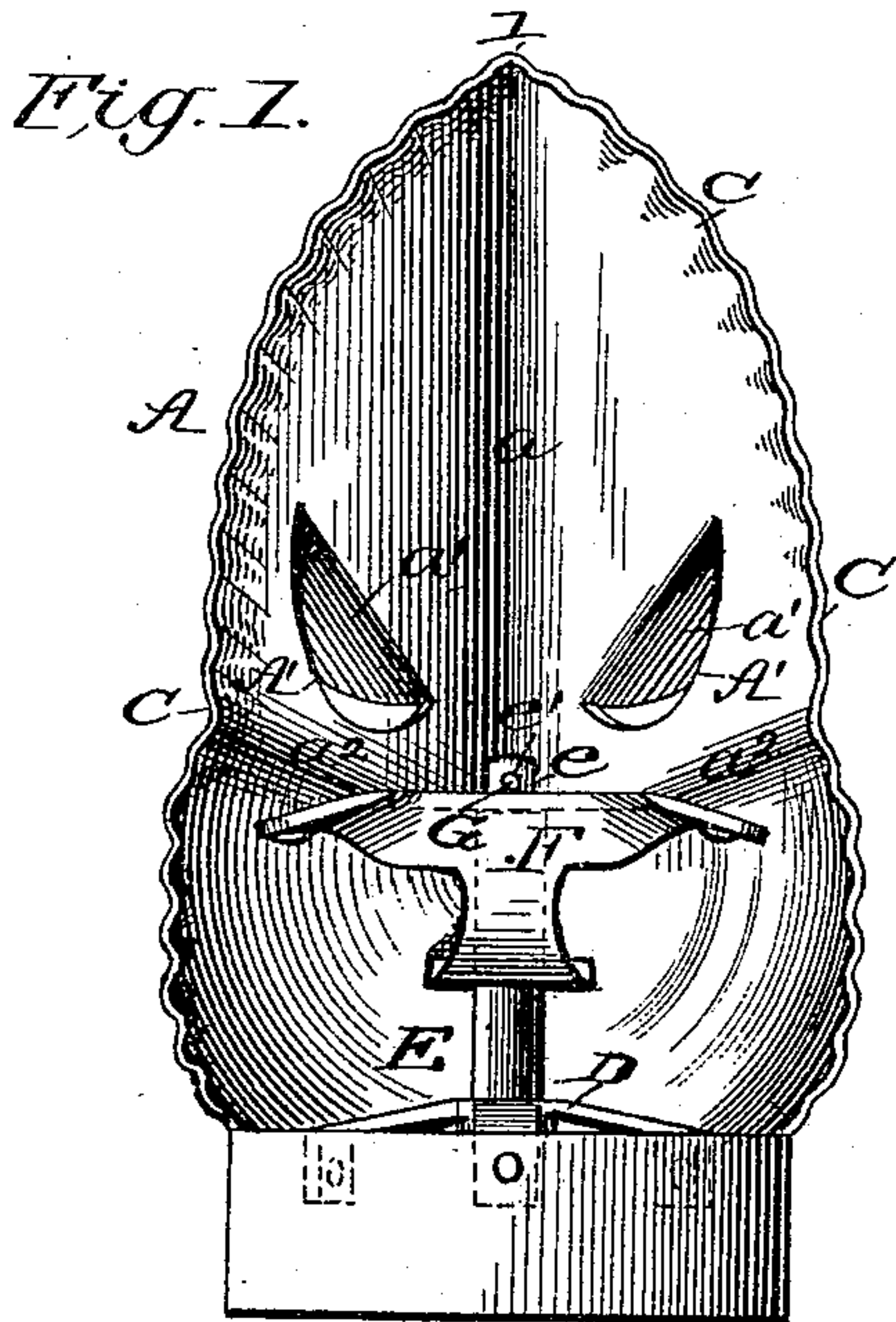


(No Model.)

M. LUDWIG.  
CHIMNEY CAP.

No. 512,981.

Patented Jan. 16, 1894.



WITNESSES:  
*Fred G. Dietrich*  
*P. B. Turpin*

INVENTOR  
*Martin Ludwig.*

BY *Munn & Co.*  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

MARTIN LUDWIG, OF ALBANY, OREGON.

## CHIMNEY-CAP.

SPECIFICATION forming part of Letters Patent No. 512,981, dated January 16, 1894.

Application filed August 8, 1893. Serial No. 482,661. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN LUDWIG, of Albany, in the county of Linn and State of Oregon, have invented a new and useful Improvement in Chimney-Caps, of which the following is a specification.

My invention is an improved chimney cap and consists in the special constructions and combinations of parts as will be hereinafter described and pointed out in the claims.

In the drawings—Figure 1 is a face view, Fig. 2 a rear view, and Fig. 3 is a side view of my improved cap. Fig. 4 represents in detail the means for supporting the cap and Fig. 5 is a detail view of the blank.

The top A is made in one piece, the blank from which it is formed being shown in Fig. 5. This blank it will be seen is in oval or elliptical form and is provided nearer one end than the other with two segmental incisions A', which are arranged on opposite sides of the major axis of the blank. In forming the top A from this blank, the latter is bent and creased at  $a$  along its major axis from its point 1 to a point 2 about midway between its minor axis and the end opposite point 1 and is then reversely creased at  $a^2$  in diagonal directions toward the edge of the blank, the lower part of the top below the creases  $a$   $a^2$  being outwardly rounded and the flaps  $a'$  formed by the incisions A' being bent outwardly forming air openings which are covered or roofed by the flaps  $a'$  such openings being on opposite sides of the apex formed by the crease  $a$ . These openings are important inasmuch as they form outlets for part of the air if the wind should at any time blow into the cap and prevent all the wind passing down the chimney while when the wind is blowing against the back or outside of the cap a current of air will pass upwardly through the openings into the cap and directly out thereof producing positively a current directly within the cap tending to increase the draft as will manifestly appear. The edge C of the cap is corrugated or crimped such construction tending to give it firmness and rigidity.

In journaling the cap I provide a support on the chimney composed of a spider D having the upright shaft or spindle E formed at its top with the tenon  $e$  perforated at  $e'$  to receive the fastening key. The cap is provided with the bearing bracket F having the upper arm  $f$ , lower arm  $f'$  and lateral arms

$f^2$  the lower arm  $f'$  and lateral arms  $f^2$   $f^2$  being riveted or otherwise secured to the cap top and the arms  $f$   $f'$  being perforated to fit on the shaft E the opening in arm  $f$  being made to fit the tenon  $c$  and upon the shoulder at the base of said tenon, the key G being passed above the arms  $f$  and fastening the cap securely in place.

It will be seen that my top is formed in a single piece and provides in itself the vane for controlling the position of the cap, also provides for accelerating the draft by means of the air openings and also affords a firm secure support for the top.

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

1. In a chimney cap a blank for the top composed of the oval plate having upon opposite sides of its major axis comparatively near one end incisions substantially as described forming flaps adapted to be bent up to produce sheds over the openings formed in so bending them all as and for the purposes set forth.

2. A chimney cap having its top formed from a single plate creased at  $a$   $a^2$  and provided with the incisions A' forming the flaps  $a'$  on opposite sides of the crease  $a$  all substantially as and for the purposes set forth.

3. In a chimney cap a top plate formed in a single piece, creased at  $a$   $a^2$  and provided with the incisions A' and having its edge crimped or corrugated all substantially as and for the purposes set forth.

4. An improved chimney cap having its top plate provided with incisions forming air openings and having the portions produced by said incisions bent outward forming shed like flaps over the said openings substantially as set forth.

5. The combination with the upright spindle or shaft of the cap provided with the bearing bracket having upper and lower arms perforated to receive the spindle and having lateral arms which together with the lower arm are secured to the cap plate and retaining devices for securing the cap on the spindle all substantially as and for the purposes set forth.

MARTIN LUDWIG.

Witnesses:

GEO. W. WRIGHT,  
CARRIE LAYTON.