

(No Model.)

J. H. CHAPPEL.
CHIMNEY COWL OR VENTILATOR.

No. 506,812.

Patented Oct. 17, 1893.

Fig. 1.

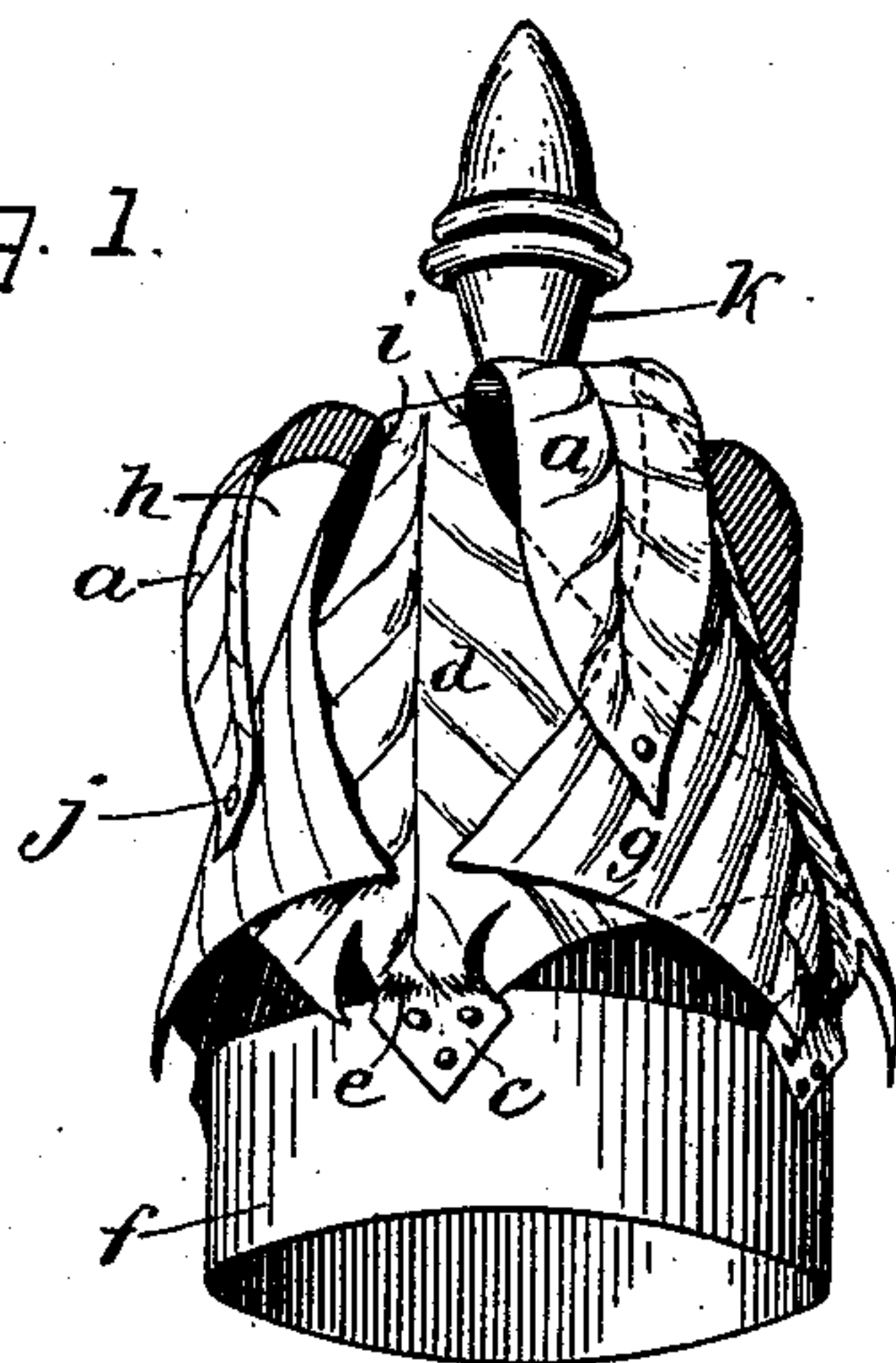
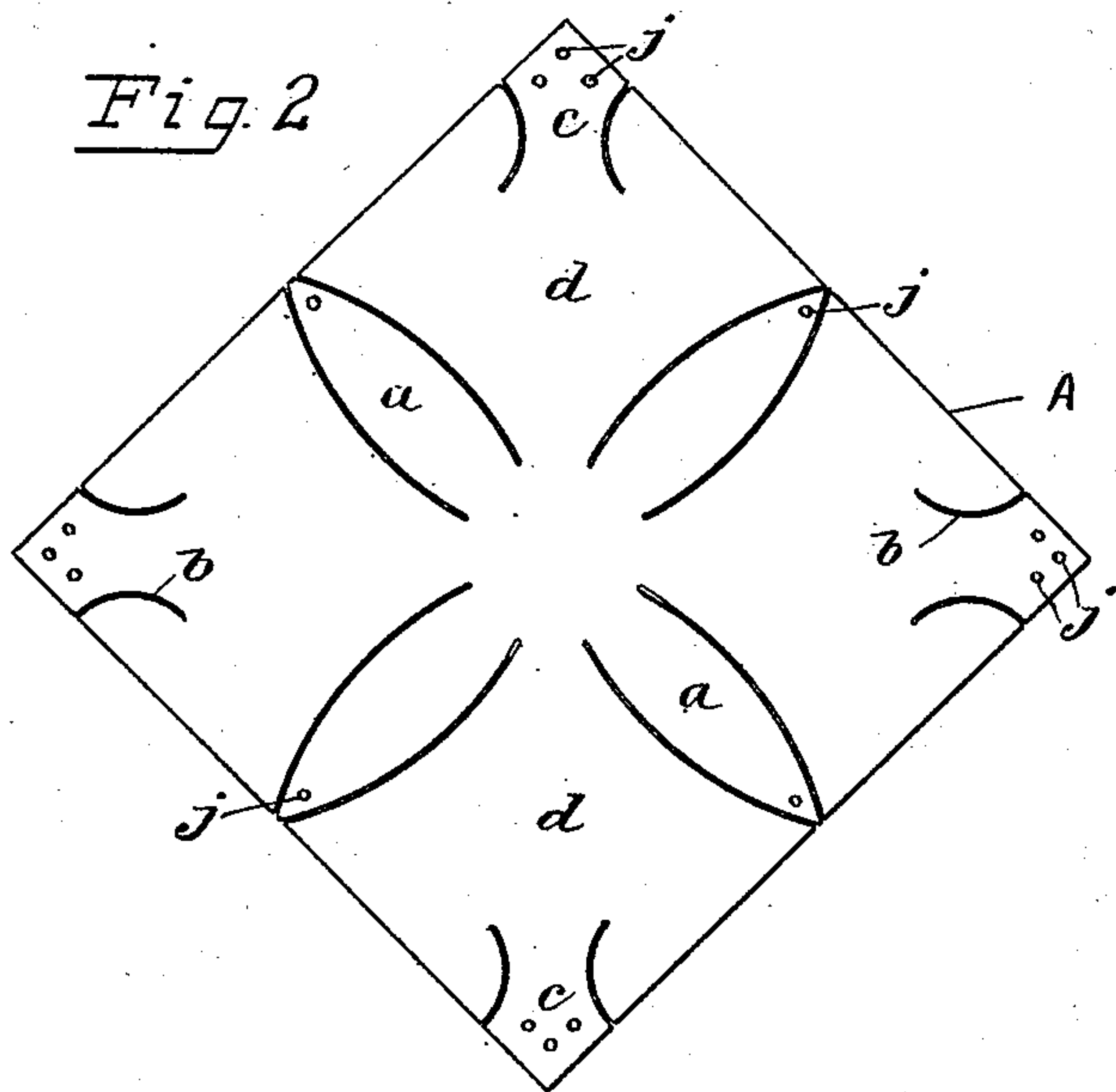


Fig. 2



WITNESSES:

R. B. Shepherd.
L. M. Hackshlager.

INVENTOR

John H. Chappel,
BY *Briessau & Knautz*

his ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN H. CHAPPEL, OF BROOKLYN, NEW YORK, ASSIGNOR TO EDWARD A. DUBEY, OF SAME PLACE.

CHIMNEY COWL OR VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 506,812, dated October 17, 1893.

Application filed January 28, 1893. Serial No. 460,021. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. CHAPPEL, residing in the city of Brooklyn, Kings county, New York, have invented a new and useful
5 Improvement in Chimney Cowls or Ventilators, of which the following is a specification.

This invention relates to chimney cowls or ventilators.

10 The main object of the invention is to simplify and strengthen devices of the character mentioned, and to provide a simpler and better method of constructing them.

15 The invention consists in the improved cowl or ventilator, and in the blank for making it, as hereinafter described, and set forth in the claims.

In the drawings Figure 1 is a side view of the improved device; and Fig. 2 is a face view of the blank from which the device is made.

20 Instead of making the body of my cowl or ventilator of several separate pieces of sheet metal, in the usual manner, I take a single piece of sheet metal, the size of which will depend on the size of cowl to be made, and
25 slit it in such manner that it can be bent into the desired shape to form the cowl body. I take a square sheet of metal, A, slit or cut it to form four approximately cigar shaped lobes or deflectors *a*, with their points at or near
30 the edge of the plate, and their bases facing toward the center of the plate, but terminating at a distance apart equal to the diameter of the top of the cowl to be made. At each corner of the plate, by curved slits *b*, are
35 formed tongues *c*.

The blank, cut as described, is bent as follows: The large sections *d* between the lobes *a* are bent down as shown in Fig. 1, and the tongues *c* are still further bent, as indicated at
40 *e*. The tongues *c* are in position to be secured to a base ring *f*, by soldering, riveting, or otherwise, at points ninety degrees apart, said ring *f* being adapted to be secured to any desired pipe or chimney. When the parts *d* are
45 bent down they will overlap to some extent, as indicated at *g*. These overlapping portions are secured together by riveting, or otherwise, thus forming a strong and rigid cowl body. The lobes or deflectors *a* are curved so that

they bulge out from the main body, and leave 50 openings *h*, which lead into the passages *i* in said main body. The joints *j* of the parts *a* are secured to the body by riveting, or otherwise. At the top of the cowl may be secured an ornamental piece *k*, if desired. 55

The blank can be formed and suitably slitted and perforated at a single operation. The blanks, before being bent, can be transported for much less than made up cowls, and, owing to the simplicity of making up this form of 60 cowl, the blanks will frequently be sent out instead of the completed cowl. It will be seen also that the entire body is made without the waste of material.

The form of the device is such as to keep 65 out water, and to give a powerful draft.

What I claim is—

1. A blank for making a cowl or ventilator consisting of a sheet of metal A, slitted on all its sides to form parts *d*, lobes *a*, and tongues 70 *c*, and leaving a central unslitted portion which forms the top of the cowl substantially as described.

2. A blank for making a cowl or ventilator consisting of a square sheet of slitted metal, 75 the slitted portions forming, when bent to make a cowl, openings and lobes or deflectors oversaid openings, substantially as described.

3. A cowl or ventilator, the body of which consists of a single sheet of metal slitted from 80 the edges toward but not to its center, to form parts *a* and *d*, said parts *d* overlapping each other and being suitably secured, and parts *a* forming covering for openings left by parts *d*, substantially as described. 85

4. A cowl or ventilator the body of which consists of a single sheet of metal, slitted from the edges toward, but not to its center, to form parts *a*, *d* and *c*, said parts *d* overlapping each other and being suitably secured, and parts 90 *a* forming coverings for openings left by parts *d*, and a cowl or ventilator base *f*, to which said body is secured by parts *c*, substantially as described.

JOHN H. CHAPPEL.

Witnesses:

CHARLES M. CATLIN,
HARRY M. TURK.