A. J. ROBINSON.

Chimney-Cowl.

No. 165,028. Patented June 29, 1875.

Fig. 1.

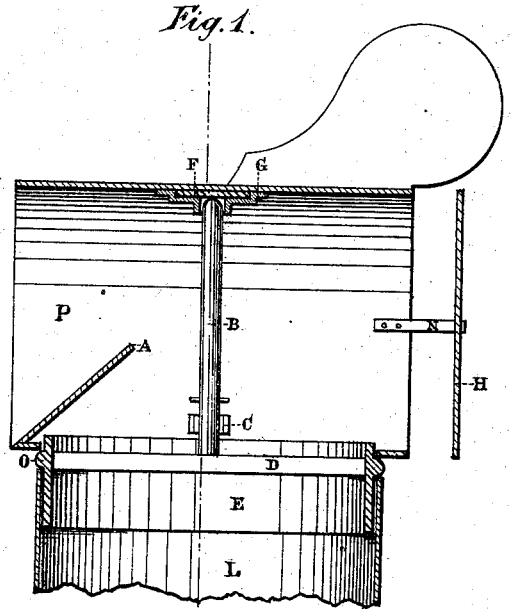
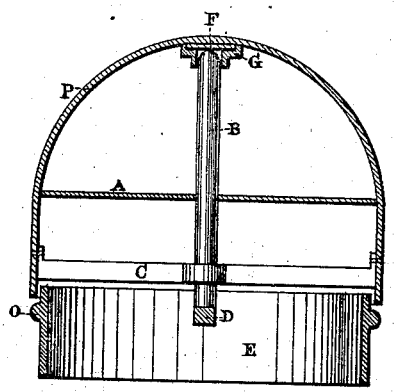


Fig. 2.



Witnesses;
C. E. Davenport
William J. Roche.

Inventor;
Andrew J. Robinson
By A. Davenport his atty

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N. Y.

UNITED STATES PATENT OFFICE.

ANDREW J. ROBINSON, OF NEW YORK, N. Y.

IMPROVEMENT IN CHIMNEY-COWLS.

Specification forming part of Letters Patent No. **165,028**, dated June 29, 1875; application filed April 30, 1875.

To all whom it may concern:

Be it known that I, ANDREW J. ROBINSON, of the city of Troy, county of Rensselaer and State of New York, have invented certain new and useful Improvements in Chimney Tops or Ventilators, of which the following is a full and clear description, reference being had to the accompanying drawings, with the letters marked thereon, which form a part of this specification.

Figure 1 is a vertical section, showing the parts of my invention, also a portion of the exhaust-pipe. Fig. 2 is a transverse section, showing the hood and collar.

My invention relates to certain improvements in that class of chimney-cowls in which the exhaust-pipe is provided with a cross-bar, which supports a vertical shaft, upon which latter the revolving hood is supported.

My improvements are fully hereinafter described, and specifically pointed out in the claims, and a preliminary description is deemed unnecessary.

P is the hood, provided with a vane for keeping the mouth of the hood to the wind. Within and across this hood is a partition, A, set at an angle of about forty-five degrees, against which the wind strikes, and passes over the top of the exhaust-pipe, thereby creating a draft. The exhaust-pipe L is in usual form. Into the top of this securely and closely fits the collar E, having a rib, *o*, around it, to prevent the collar from working too far down into the pipe. Across this collar is a bar, D, secured at two sides and in the center of the collar. From the center of this bar D rises a vertical shaft, B, upon the end of which the hood is pivoted, the hood shutting down over the collar as far as the rib, and loosely enough to allow the hood to revolve freely. Under the top of the hood is a socket, G, in the bottom of which is inserted a piece of glass to decrease the friction of the pivot. A small cross-bar, C, is secured to the bottom of the hood, and through this the shaft B passes. A small pin through this shaft and above the cross-bar C prevents the hood from slipping off the pivot. At the exit end of the hood, and at the proper distance therefrom, is secured the shield H, by means of the arms N N, to prevent the counter-currents of air from getting into the exhaust-pipe when the cowl is lower than the surrounding buildings.

In operation, the hood, being supported entirely upon the pivot which works against the glass head-piece, revolves very easily; the lightest current of air being sufficient to turn the mouth of the hood to the wind; and as the collar E projects through the bottom of the hood and the bar C projects beyond the collar, a perfect balance or equilibrium is always maintained. The collar E, bar D, and shaft B are easily cast together as one piece, thereby materially decreasing the cost of manufacture.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A chimney-cowl in which is combined the hood P, provided with the inclined partition A, shield H, and socket G in its top, and cross-bar C near its bottom; a vertical shaft, B; a collar E, constructed to fit within the exhaust-pipe L, and having the cross-bar D, all substantially as shown and described.

2. The combination of the exhaust-pipe L, the collar E, constructed to fit within the said pipe, and provided with the cross-bar D, the hood provided with a circular opening, fitting over the collar E, and a vertical shaft, B, resting on the cross-bar D, and fitting a socket in the top of the hood, all substantially as described.

3. The collar E, constructed to fit the pipe L, and having the peripheral rib *o*, to limit its insertion in said pipe, and a cross-bar, D, to support the vertical shaft, which supports the revolving hood, the whole being constructed and combined as and for the purpose described.

In witness whereof I have hereto set my hand this 28th day of April, 1875.

ANDREW J. ROBINSON.

Witnesses:

WILLIAM J. ROCHE,

C. E. DAVENPORT.