

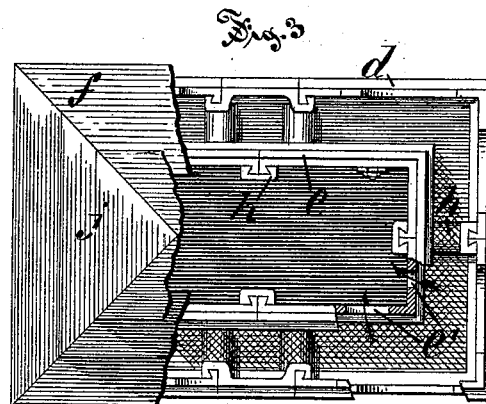
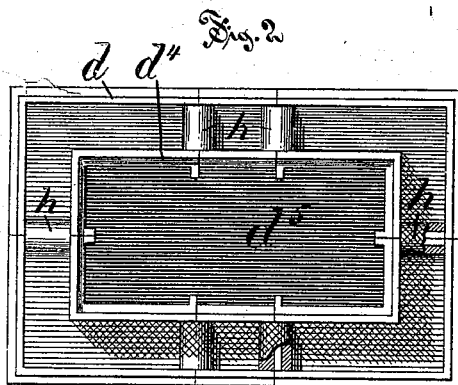
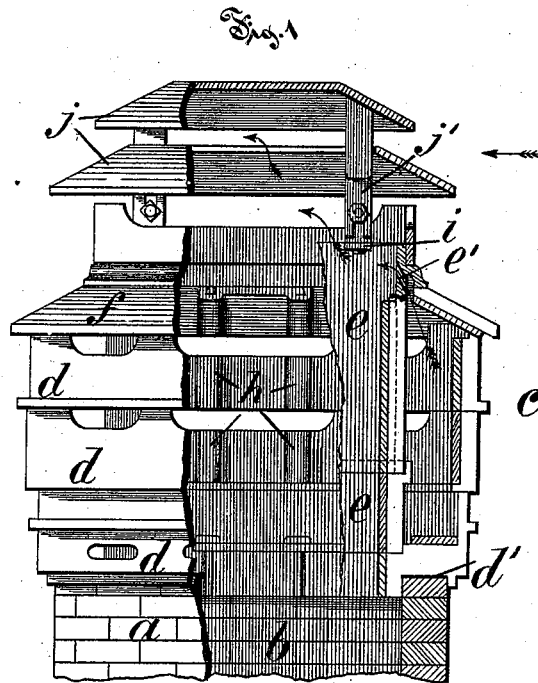
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(No Model.)

A. HERENDEEN.  
CHIMNEY TOP.

No. 386,010.

Patented July 10, 1888.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ALMANZON HERENDEEN, OF PUTNAM, CONNECTICUT.

## CHIMNEY-TOP.

SPECIFICATION forming part of Letters Patent No. 386,010, dated July 10, 1888.

Application filed September 25, 1886. Serial No. 214,489. (No model.)

*To all whom it may concern:*

Be it known that I, ALMANZON HERENDEEN, of Putnam, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Chimney-Tops, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

The object of my improvement is to utilize the features of invention shown and described in United States Letters Patent granted to me July 6, 1886, No. 344,832, and to provide such a device with means for adapting it to chimneys of different sizes, to provide it with means for increasing the draft, and also to shield the chimney-mouth from storms; and to this end my improvement consists in a chimney-cap consisting of a hollow casing made in sections, so that it is adjustable both vertically and laterally.

It further consists in the improved means for inducing a draft in the chimney, and, still further, in the improved storm cap or cover, and in details of the parts, as more particularly hereinafter described, and pointed out in the claims.

Referring to the drawings, Figure 1 is a view in elevation of a chimney-top provided with my improved cap with parts cut away in section to show construction. Fig. 2 is a detail top view of the several sections with parts cut away to show construction. Fig. 3 is a detail top view of the chimney-top with parts cut away.

In the accompanying drawings, the letter *a* denotes the top of a chimney having the usual flue, *b*, within the chimney, and the letter *c* the chimney top or protector as a whole. I prefer to make the protector of cast metal, as iron, the outer casing, *d*, being of a size somewhat larger than the outside dimensions of the chimney, while the flue-extension *e* is a tubular casting of about the inside dimensions of the chimney. The casing *d* is made in a number of sections superposed vertically, the lower section having a socket, *d'*, formed between downward-extending flanges on the bottom of the casing, the outer flange extending down the outer side of the chimney and the inner flange extending downward within the chimney, so as to embrace in this annular socket

one or more of the upper courses of brick when the casing is placed upon the top of the chimney. In the upper part of this base there is a flange, between the sides of which is a flue-opening, *d''*, and a socket, *d'''*, in this upper part is adapted to receive the lower end of a section of the flue-extension *e*. In order to protect the space between the outer walls of the casing *d* and the walls of the flue-extension *e*, a cover, *f*, is provided, that fits upon the top of the casing, and has a sloping upper surface, as shown in the drawings. This cover and the several parts of the protector are held together by any suitable means, as bolts or screws. The air in the chamber or space between the outer casing and the flue-extension is heated by the rising of hot air within the chimney, and slots *e'* are cut through the walls of the flue-extension near its upper part and opening into the chamber. Other openings are formed in the outer wall of the casing, both to lighten it and to permit a circulation of air that when heated will flow through the opening *e'* and increase the upward draft in the flue *b*.

In order to adapt this chimney-top to more than one size of chimney, it is made in sections, the several parts having vertically-meeting faces and projecting lugs with edges undercut on the opposite sides, so that a clamp, *h*, with a dovetailed and tapered groove may be slipped upon these lugs and the several parts of any one section clamped together. Each of the sections consists of a corner-piece and a certain part of the straight side, the filling-pieces being made of straight sections of a length equal to about a brick or half a brick in length. These corner-pieces and filling-pieces being provided, it is easy to fit up a complete chimney-top embodying my improvements and of any desirable size. The casing is made in separate parts, vertically as well as laterally, so that a top of any desired height may be made up by using two or more of such sections and fitting them together.

Sockets *i* are provided on the inside of the flue, in which uprights may be secured, and these uprights are slotted to receive a clamping-bolt, that passes also through a slot in the lugs *j'* of a storm-cap, *j*, that more or less completely covers the flue, and is suspended over it at any desired height within the length of

the slot in the uprights and the lugs, the cap being secured at the desired height by tightening the clamp-screws.

I claim as my improvement—

5 1. The herein-described chimney-top, consisting, essentially, of metallic sections capable of being superposed one upon another, each section being formed in two or more parts, and spacing-clamps, the edges of which inter-  
10 lock with the edges of the part sections to bind the part sections together, whereby the section may be expanded to fit chimneys of different sizes, substantially as set forth.

2. The herein-described chimney-top, consisting, essentially, of sections formed of cast  
15 metal capable of being superposed one upon another, each section being formed in two or more parts, and spacing-clamps to interlock with and bind together the edges of the part  
20 sections, substantially as set forth.

3. A chimney-top section formed in two or more parts, the edges of the parts being dovetailed, and spacing-clamps provided with  
25 dovetailed edges to engage the edges of the said parts, substantially as set forth.

4. The combination, with a chimney-top, *c*, of a storm-cap, *j*, having depending arms or lugs *j'*, provided with vertically-elongated slots, slotted lugs attached to the chimney-top in position to correspond with the lugs *j'*, and  
30 clamping-bolts to lock the lugs *j'* to the lugs on the chimney-top, whereby the storm-cap is secured in the desired vertical adjustment, substantially as set forth.

5. In a chimney-top, the combination, with  
35 an interior flue composed of sections capable of being superposed one upon another, the sections each consisting of two or more parts united by spacing-sections, of an exterior flue formed by several sections capable of super-  
40 position one upon another, each section consisting of two or more parts united by spacing-sections, the sections of the exterior flue being provided with draft-openings and the sections of the interior flue being provided with draft-  
45 openings, substantially as set forth.

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Witnesses:

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