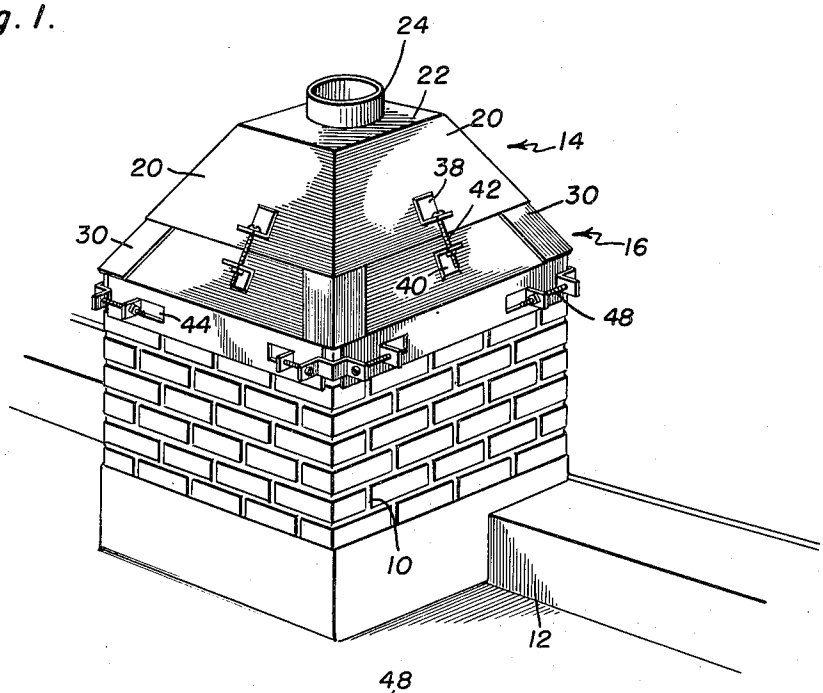
Jan. 2, 1951 T. R. STEELMAN ET AL 2,536,235

ADJUSTABLE CHIMNEY TOP

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Fig. 1.



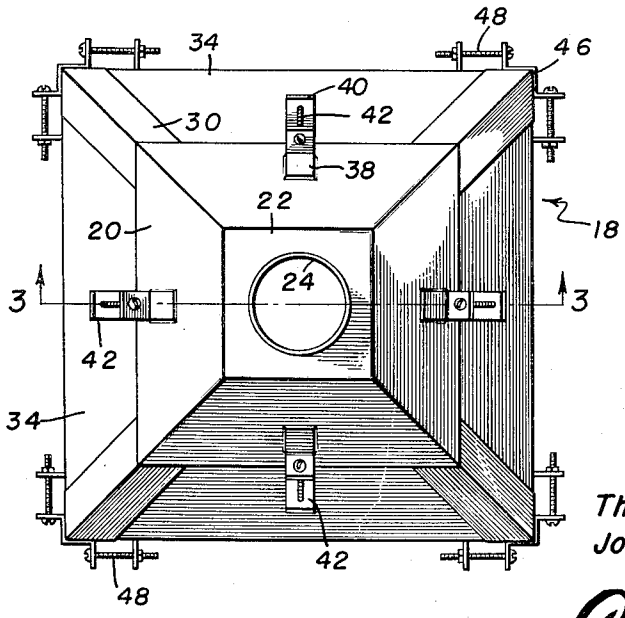


Fig. 2.

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Fig. 3.

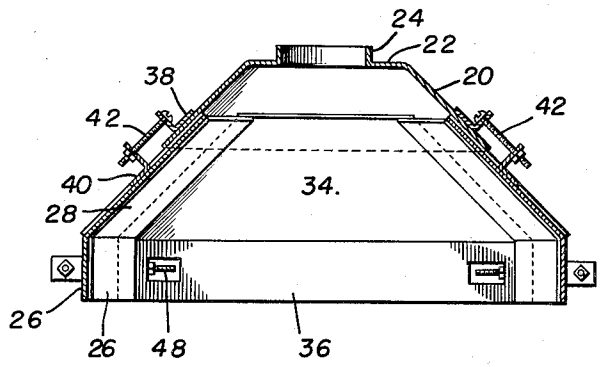
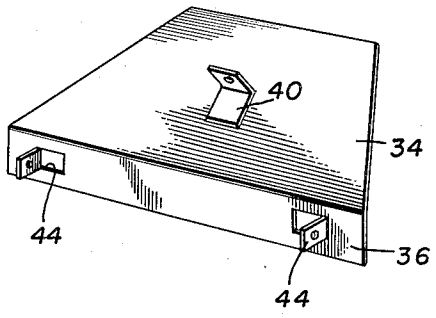


Fig. 4.



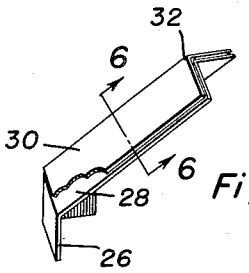


Fig. 5

Fig. 6.

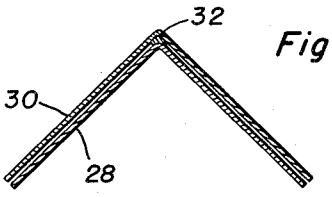
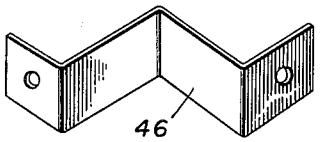


Fig. 7.



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2,536,235

UNITED STATES PATENT OFFICE

2,536,235

ADJUSTABLE CHIMNEY TOP

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Application June 25, 1947, Serial No. 756,846

5 Claims. (Cl. 98—67)

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This invention relates generally to flues, and more particularly to an adjustable chimney top comprising a hollow generally pyramidal cap, corner posts and side panels, the three main portions being adjustable relatively to adapt the device for use with different size chimneys.

A primary object of this invention is to provide an adjustable chimney top which may be used to fit closely upon chimneys, thus facilitating construction of the element in uniform sizes.

Another salient object of this invention is to provide an adjustable chimney top which may be secured tightly in place without employment of special tools, the different elements being designed for convenient placement on the chimney prior to the final tightening of the elements in place, thus simplifying the work of attaching the device to a chimney.

Another object of this invention is to provide a chimney top which may be used with various types of extensions securable to the upper end of the device.

Still another object of this invention is to provide a chimney top in which no part is very large or awkward to handle and which may be constructed largely from sheet metal.

And a last object to be specifically mentioned is to provide a device of this character which is relatively inexpensive and practicable to manufacture, extremely simple to apply, adjust and maintain, and which will give generally efficient and durable service.

With these and other objects in view, this invention resides in certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail, particularly pointed out in the appended claims, and illustrated in the accompanying drawings which form a material part of this application, and in which:

Figure 1 is a perspective view of the device secured in operative position on a chimney;

Figure 2 is a top plan view of the assembled device;

Figure 3 is a transverse vertical sectional view, taken on the line 3—3 in Figure 2;

Figure 4 is a perspective view of one of the panels;

Figure 5 is a perspective view of one of the corner posts;

Figure 6 is a sectional view of one of the corner posts, the figure being slightly enlarged and taken on the line 6—6 in Figure 5; and,

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Figure 7 is a perspective view of one of the corner clamps.

Similar characters of reference designate similar or identical parts and portions throughout the specification and throughout the several views of the drawings.

Referring now to the drawings in detail, it will be noted that the environment wherewith this invention is adapted to be used includes a chimney 10 which is illustrated as constructed of bricks and mortar, projecting above a portion 12 of a roof.

The instant invention is designed for use with such a chimney and comprises three main portions which will be hereinafter referred to as the cap 14, corner posts 16, and side panels 18, a plurality of posts 16 and side panels 18 being provided to correspond with the number of sides of the cap 14. In the drawings the device has been illustrated as having four sides, in conformity with the usual shape of a chimney.

The cap 14 is frusto-pyramidal shape having sloping sides 20 and a flat top plate 22 which has integrally secured thereon the flue connection 24. This flue connection is a short pipe member to which may be secured any desired type of extension device such as devices for improving the draft and the like.

The corner posts are each constructed with a single vertical wall portion 26, an inner obliquely disposed wall portion 28, and a coextensive outer obliquely disposed and parallel wall portion 30, the parallel portions as well as the vertical portions being each right angularly bent as at 32, so that the vertical portions 26 will fit closely on to the corners of the chimney 10, and the upper ends of the parallel portions will fit within the corner portions of the cap 14. The two parallel portions are secured together at the corner 32 by welding, some suitable means being provided to space the walls 28 and 30 apart a distance corresponding substantially to the thickness of the material out of which the device is constructed, and more particularly this spacing must be slightly greater than the thickness of the obliquely disposed portions 34 of the side panels 18.

The side panels 18 are comprised of the above mentioned obliquely disposed portions 34 which

are trapezoidal in shape with equal base angles, corresponding to the base angles of the cap 14. It will be noted that the correct angular inclination of the various walls and panels must be reasonably closely maintained in order that the cap may fit closely upon the posts 16, and that the sides 34 may fit easily within the channels between the parallel walls 28 and 30 of the posts. Each of the side panels is provided with a vertical wall portion 36 corresponding with the vertical portion 26 of the posts.

The cap 14 and each of the panels are provided with brackets 38 and 40 respectively, these brackets 38 being integrally secured to the sloping sides of the cap so as to register with the brackets 40 secured to the sloping side of each of the side panels, and a bolt and nut 42 are used to adjustably clamp the two brackets 38 and 40 together so as to hold the panels in place relative to the cap 20 and the posts 16. Each of the vertical walls 36 is provided with similar brackets 44, and corner brackets 46, each bent at three points and terminally apertured, are used to coact with the said brackets 44 and clamping bolts 48 to adjustably hold the side panels in abutting relation with the exterior surfaces of the vertical walls 36 of the posts.

The operation of this invention will be clearly understood from the foregoing description of the mechanical details thereof, taken in connection with the above recitation of the objects sought to be achieved by this invention, and it will be perfectly clear how the tightening of the draw bolts 42 and 48 will clamp the device firmly upon the upper end of a chimney.

Though there has been shown a particular embodiment of this invention, this application is not limited to this particular embodiment, but it is desired to include in the scope of this invention, the construction, combination and arrangement of parts and portions substantially as set forth in the appended claims.

Having described the invention, what is claimed as new is:

1. An adjustable chimney top comprising a hollow generally pyramidal cap with a flat top and a central flue connection, corner posts having vertical wall portions to fit over upper end corner portions of a chimney, each of said posts having parallel and spaced inner and outer wall portions of angular cross sectional shape integral with and disposed obliquely with respect to said vertical portions of the posts, said inner and outer wall portions defining slots on two sides of said posts and having the upper ends thereof extending under said cap, side panels having the upper ends thereof disposed within said cap and the side edges of the panels disposed within said slots, and means adjustably clamping the panels to the cap and to the posts on the top of a chimney, said panels having vertical wall portions, and said posts and panels with the said vertical portions defining a frusto-pyramidal hollow form with a rectangular base.

2. An adjustable chimney top comprising a hollow generally pyramidal cap with a flat top and a central flue connection, corner posts having vertical wall portions to fit over upper end corner portions of a chimney, each of said posts having parallel and spaced inner and outer wall portions of angular cross sectional shape integral with and disposed obliquely with respect to said vertical portions of the posts, said inner and outer wall portions defining slots on two sides of said posts and having the upper ends thereof extending under said cap, side panels having the upper ends thereof disposed within said cap and the side edges of the panels disposed within said slots, and means adjustably clamping the panels to the cap and to the posts on the top of a chimney, said posts and panels having vertical portions at their lower ends and together defining a frusto-pyramidal hollow form with a rectangular base.

3. An adjustable chimney top comprising a hollow generally pyramidal cap with a flat top and a central flue connection, corner posts having vertical wall portions to fit over upper end corner portions of a chimney, each of said posts having parallel and spaced inner and outer wall portions of angular cross sectional shape integral with and disposed obliquely with respect to said vertical portions of the posts, said inner and outer wall portions defining slots on two sides of said posts and having the upper ends thereof extending under said cap, side panels having the upper ends thereof disposed within said cap and the side edges of the panels disposed within said slots, and means adjustably clamping the panels to the cap and to the posts on the top of a chimney, said corner posts and panels each having vertical lower end portions and upper portions parallel to the sides of said cap, said posts and panels being horizontally shiftable relative to each other with the edge portions of the panels entering said slots to a variable extent so that the chimney top is easily adapted to differently sized chimneys.

4. An adjustable chimney top comprising a hollow generally pyramidal cap with a flat top and a central flue connection, corner posts having vertical wall portions to fit over upper end corner portions of a chimney, each of said posts having parallel and spaced inner and outer wall portions of angular cross sectional shape integral with and disposed obliquely with respect to said vertical portions of the posts, said inner and outer wall portions defining slots on two sides of said posts and having the upper ends thereof extending under said cap, side panels having the upper ends thereof disposed within said cap and the side edges of the panels disposed within said slots, and means adjustably clamping the panels to the cap and to the posts on the top of a chimney, said corner posts and panels each having vertical lower end portions and upper portions parallel to the sides of said cap, said means clamping said panels to the sides of said cap and corner spanning brackets with clamping bolts securing the panels and posts together and securing said vertical portions of said panels in place, said posts and panels being horizontally shiftable relative to each other with the edge portions of the panels entering said slots to a variable extent so that the chimney top is easily adapted to differently sized chimneys.

5. An adjustable chimney top comprising a hollow generally pyramidal cap, corner posts having vertical wall portions to fit over upper end corner portions of a chimney, each of said posts having parallel and spaced inner and outer wall portions of angular cross sectional shape integral with and disposed obliquely with respect to said vertical portions of the posts, said inner and outer wall portions defining slots on two sides of said posts and having the upper ends thereof extending under said cap, side panels having upper sloping portions and lower vertical wall portions and having the upper ends thereof disposed within said cap and the side edges of the panels

disposed within said slots, brackets rigidly secured on said panels, similar coacting brackets on said cap, and bolts for adjustably securing said brackets together, other brackets on said vertical wall portions, and separate corner brackets adjustably secured by bolts to said other brackets to hold the panels and post together, said posts and panels being horizontally shiftable relative to each other with the edge portions of the panels entering said slots to a variable extent so that the chimney top is easily adapted to differently sized chimneys.

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JOSEPH H. STEELMAN.

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