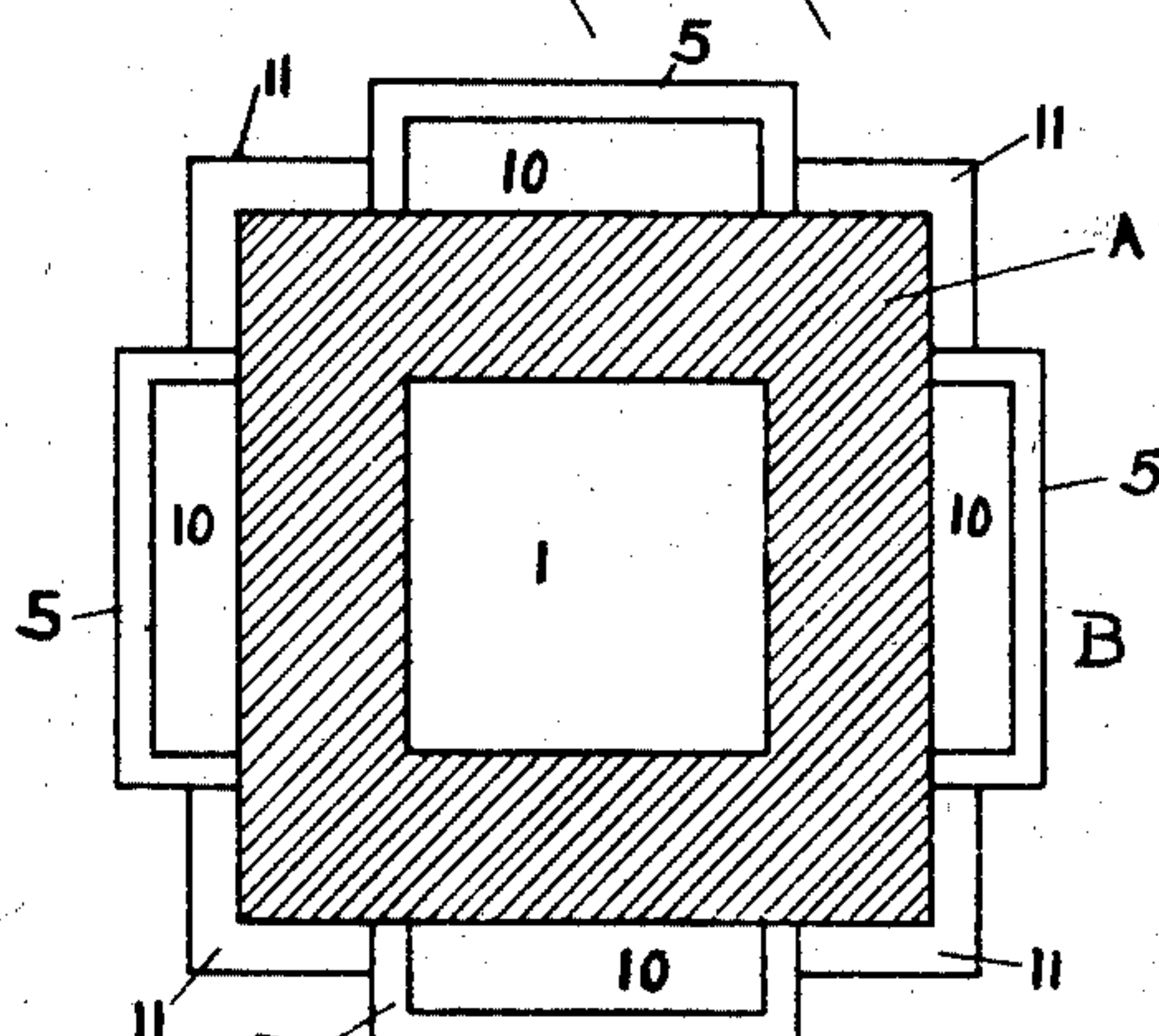
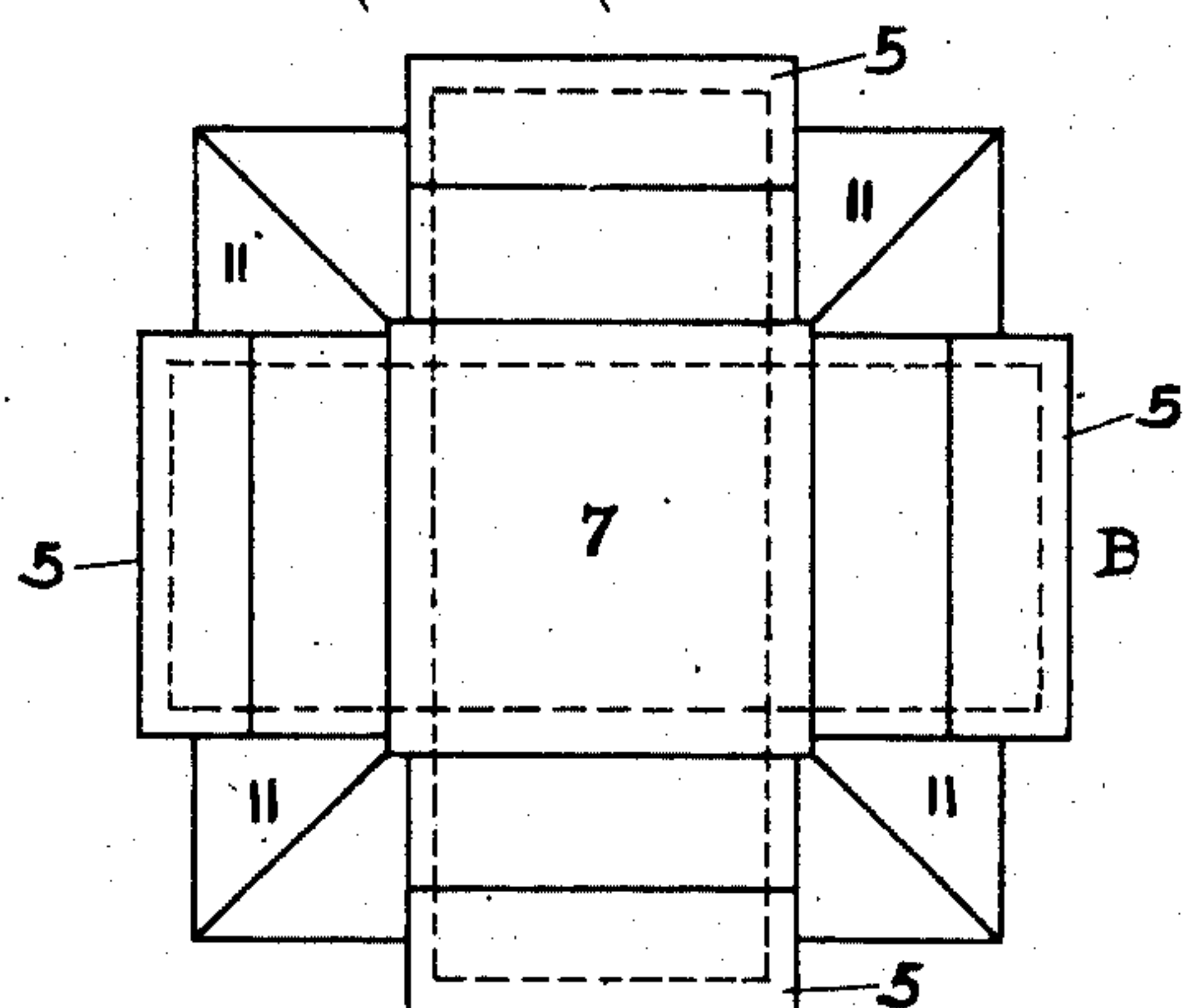
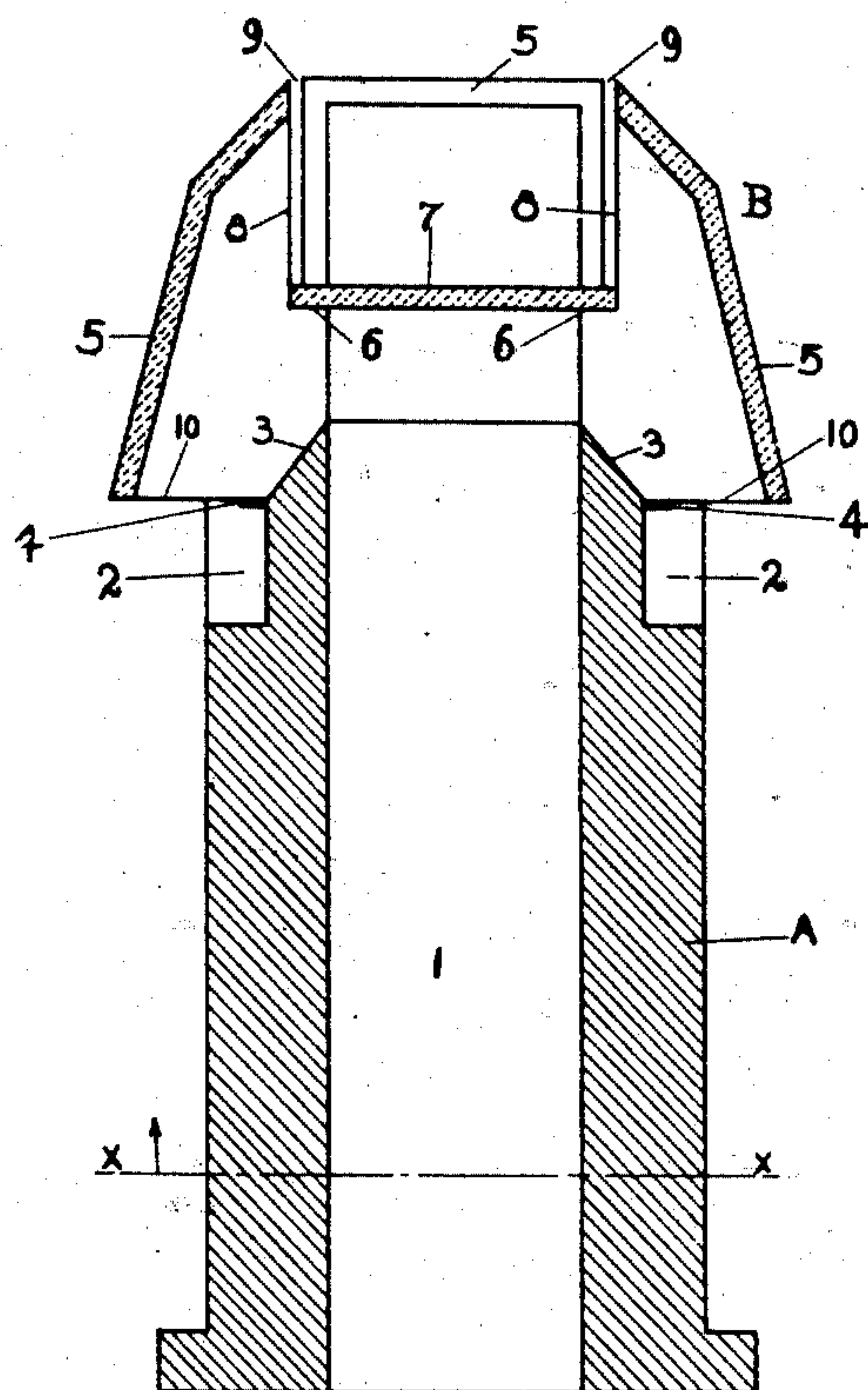
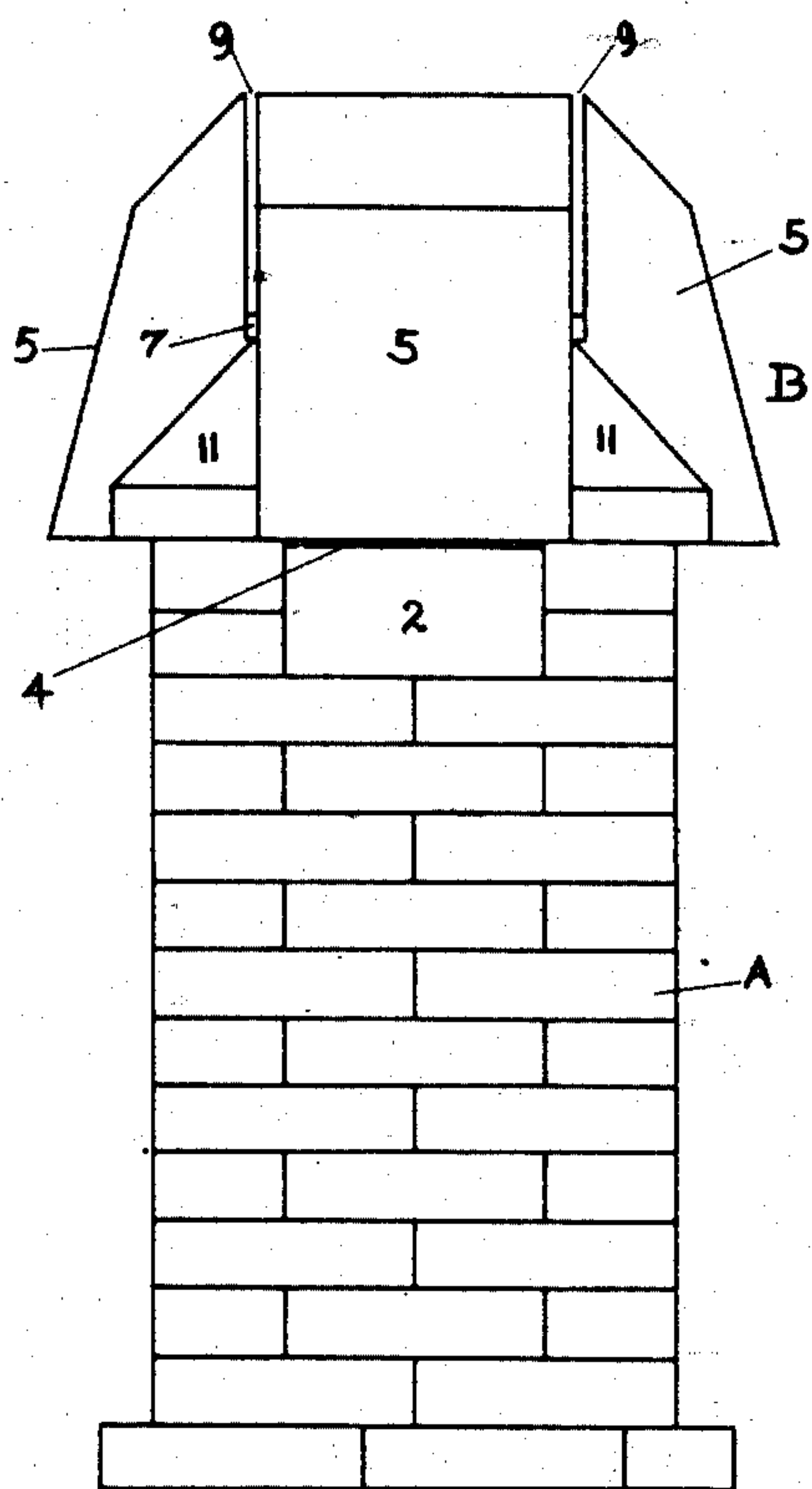


**No. 864,865.**

PATENTED SEPT. 3, 1907.

C. SAUNDERS.  
CHIMNEY TOP OR VENTILATOR.  
APPLICATION FILED FEB. 2, 1907.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

CHARLES SAUNDERS, OF SAGINAW, MICHIGAN.

## CHIMNEY TOP OR VENTILATOR.

No. 864,865.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed February 2, 1907. Serial No. 355,440.

*To all whom it may concern:*

Be it known that I, CHARLES SAUNDERS, a citizen of the United States, residing at Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Chimney Tops or Ventilators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to chimney tops, one object being to provide means for preventing any possible draft of air down the chimney, no matter from which direction the wind may be blowing or whether the current be straight or circular in direction, or whirling.

15 Another object of my invention is to provide a chimney top having an ornamental appearance, said top being formed of a cementitious material, in part at least.

20 A further object of my invention is the provision of means for facilitating the easy cleansing of the chimney without demolishing any portion thereof, and to these ends my invention consists in certain novel features and combinations, all of which will be more fully described hereinafter and particularly set forth in the claims.

25 The device is capable of use as a ventilator as well as for a chimney and it may be applied to other uses also without departing from the spirit and scope of my invention.

30 In the drawings, Figure 1 is a side view of my invention, Fig. 2 is a vertical sectional view thereof, Fig. 3 is a top plan view, and Fig. 4 is a view looking in the direction of the arrow on line *x-x* of Fig. 2.

35 While I have constructed my invention in accordance with certain dimensions, I will make no reference to them in this specification, as they are capable of change to suit varying conditions met with in the practical employment of the device. It will also be understood that whereas I have provided a chimney top or ventilator which will prevent down-draft, it is also adapted to permit a perfectly free up-draft facilitated in many ways by the arrangement of parts hereinafter shown or their equivalents.

40 (A) indicates a chimney proper provided with the usual flue opening (1) therein. The sides of the chimney are recessed, as at (2) (2) and the upper end is beveled off, as at (3) (3), the bevels intersecting the inner walls of the recesses (2) (2), horizontally extending strips (4) (4) of iron, it may be, being located at the intersection of the beveled surfaces (3) (3) and the rear walls of the recesses (2) (2), the strips (4) (4) projecting over the recesses, for a purpose hereinafter set forth.

45 Superposed upon the upper end of the chimney (A) is a cap (B), the same comprising, in the illustration herein shown, four hollow inclined cowls (5) (5) which inclose the beveled surfaces (3) (3), the open lower ends of the cowls (5) (5) being located above the recesses

(2) (2) and laterally projecting some distance beyond the horizontal baffle strips (4) (4) at their lower ends. Intermediate their upper and lower ends, the cowls are provided with shoulders (6) (6), such shoulders being located above the upper open end of the flue (1) of the chimney and adapted to removably receive a cover-plate (7), the shoulders being of such width that the cover-plate projects beyond the vertical planes of the sides of the flue (1).

60 The upper open ends (8) (8) of the cowls lie in vertical planes and permit the removal and replacement of the cover-plate (7), spaces (9) (9) being left between each two upper ends of the cowls above the cover-plate. The open lower ends of the cowls are indicated at (10) (10). The spaces between the lower ends of the cowls are filled in any suitable or ornamental manner, as shown at (11) (11). A glance at Figs. 1 and 2 will show that currents of air blowing toward any side of the chimney and its cap will be pocketed in the recesses (2) (2), the baffle strips (4) operating to prevent the air currents from entering the chimney obliquely in such direction as to impinge against the under face of the cover-plate (7) and create a down-draft. Instead such currents will be deflected toward and pass up along the inner inclined faces of the cowls (5) (5) entering through the upper open ends (10) and passing out through the upper open ends (8) above the cover-plate, thereby facilitating the up-draft from the chimney flue (1). Any current of air striking the chimney between the cowls (5) (5) will be excluded from the space below the cover-plate (7), but will be allowed to pass through the spaces (9) (9) between the cowls above the cover-plate whereby to facilitate the up-draft.

70 Quite frequently it happens that the chimneys are located adjacent the walls of high buildings which may create a whirling air current, but such whirling air current can not blow down the chimney on account of the cover-plate (7), and will be deflected outward and downward by the inclined inner faces of the cowls (5) (5), entering such cowls through the openings (8) and passing out therefrom through the bottom openings (10).

75 Having thus fully disclosed my invention, what I claim as new is—

100 1. A chimney provided with a flue, a cap mounted on the upper end of the chimney, the cap comprising a series of hollow, shouldered cowls, the spaces between which cowls below the shoulders being closed, and a removable plate seated on the shoulders at a point spaced above the upper end of the chimney flue, the upper open ends of the cowls lying in vertical planes above the cover plate, the lower open ends of the cowls lying in horizontal planes below and laterally of the upper open end of the chimney.

105 2. A chimney provided with a flue, a cap mounted on the upper end of the chimney, the exterior walls of the chimney being recessed, the upper end of the chimney being beveled, the beveled surfaces leading to the upper rear walls of the recesses, horizontally extending baffle plates projecting over the recesses, the cap consisting of a plurality of hollow inclined cowls, the lower open ends of

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the cowls projecting below the upper ends of the chimney and lying below the upper end of the flue, and laterally of the recesses, the upper ends of the cowls being reduced to form shoulders spaced above the upper end of the flue, a plate removably seated on the shoulders, the upper open ends of the cowls lying in vertical planes above the removable plate.

3. A chimney provided with a flue, the exterior walls of the chimney being recessed, the upper end of the chimney being beveled inward from the rear walls of the recesses to the flue, baffle plates projecting over the recesses, a cap mounted on the upper end of the chimney, the cap provided with hollow inclined cowls, the lower open ends of which lie opposite the beveled upper end of the chimney and laterally of and above the recesses, the lower ends of the cowls having horizontal openings, a plate carried by the cowls intermediate their ends, the plate being spaced above the upper open end of the flue and of greater area than the cross-sectional area of the flue, the upper ends of the cowls opening in vertical planes above the plate.

4. A chimney provided with a flue, the exterior walls of the chimney being recessed, the upper end of the chimney being beveled inward from the rear walls of the recesses to the flue, baffle plates projecting over the recesses and a cap mounted on the upper end of the chimney, and the cap provided with hollow inclined cowls, the lower open ends of which lie opposite the beveled upper end of the chimney and laterally of and above the recesses, the lower ends of the cowls having horizontal openings, a plate carried by the cowls intermediate their ends, the plate being

spaced above the upper open end of the flue and of greater area than the cross-sectional area of the flue, the upper ends of the cowls opening in vertical planes above the plate.

5. A chimney provided with a flue, a cap mounted on the upper end of the chimney and comprising a plurality of hollow inclined cowls, the lower open ends of which lie below the upper end of the flue, the upper open ends of which lie above the flue, and a removable plate suitably supported above the upper end of the flue.

6. A chimney provided with a flue, a cap mounted on the upper end of the chimney and comprising a plurality of hollow inclined cowls, the lower open ends of which lie below the upper end of the flue, the upper open ends of which lie above the flue, and a removable plate suitably supported above the upper end of the flue, the plate being of greater area than the cross-sectional area of the flue.

7. A chimney provided with a flue, a cap mounted on the flue, the cap comprising a plurality of hollow cowls opening at their lower ends below and laterally of the upper end of the chimney, and a suitably supported plate spaced above the upper end of the chimney and surrounded by the upper open ends of the cowls.

In testimony whereof, I affix my signature in presence of two witnesses.

CHARLES SAUNDERS.

Witnesses:

RALPH S. WARFIELD,  
E. M. JOHNSON.