

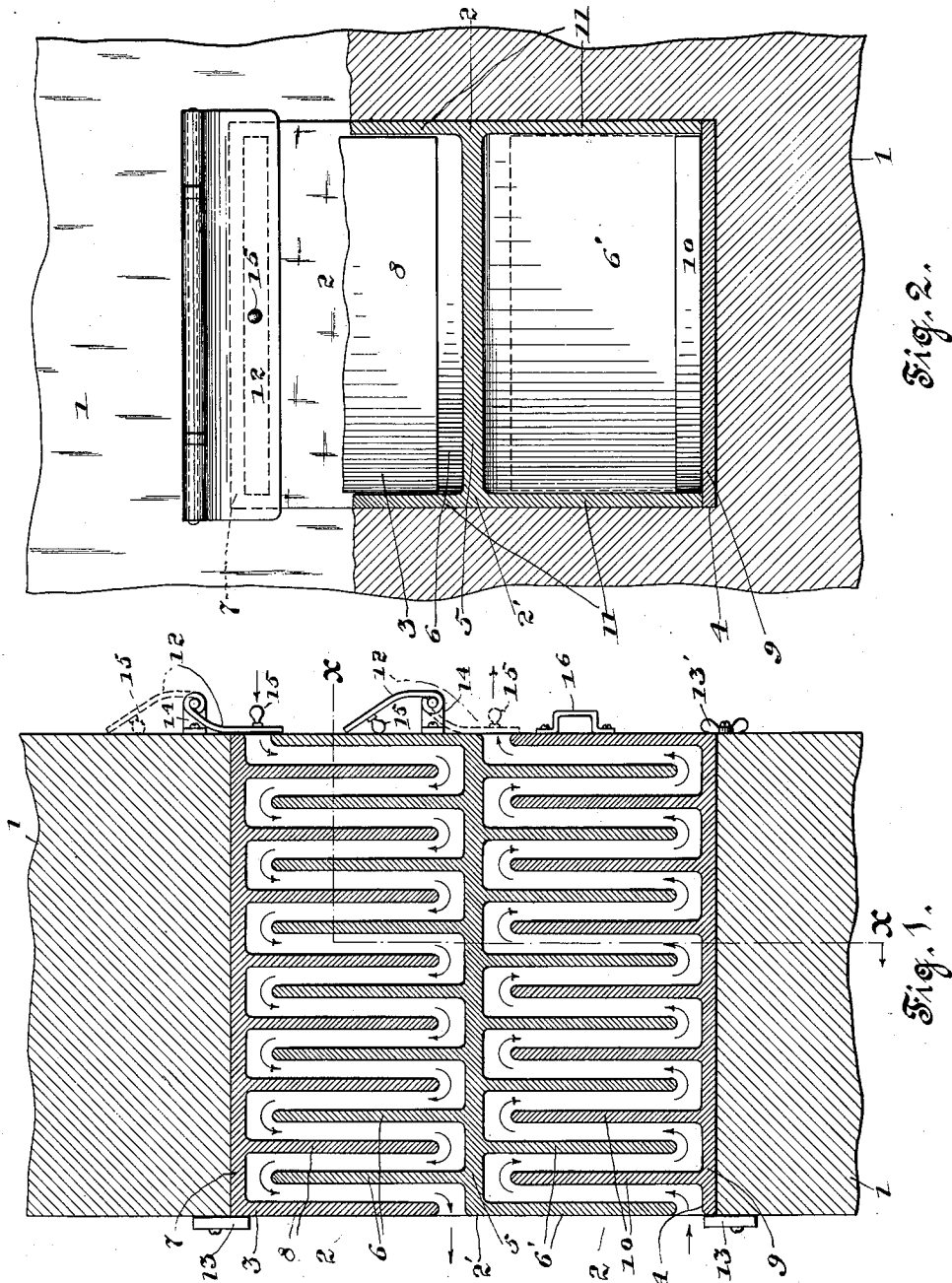
C. A. PETERSON.

VENTILATOR.

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934,460.

Patented Sept. 21, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES A. PETERSON, OF CHICAGO, ILLINOIS.

VENTILATOR.

934,460.

Specification of Letters Patent. Patented Sept. 21, 1909.

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To all whom it may concern:

Be it known that I, CHARLES A. PETERSON, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Ventilators, of which the following is a specification.

My invention relates to improvements in ventilators, and more particularly to a ventilator adapted to be inserted in the walls of a building, the object being to provide a device of this character that shall be neat in appearance and efficient in operation.

A further object of my invention is to provide a ventilator that may be easily removed from its place in the wall for cleansing purposes, and a further object is to provide suitable fastening devices to hold the ventilator in position. And a still further object is to provide suitable hinged lids for closing the ventilator openings.

Other objects will appear hereinafter.

With these objects in view my invention consists in the novel construction and arrangement of parts all as will be hereinafter fully described and particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a central vertical section showing my improved ventilator in its preferred form, and Fig. 2 is a section thereof taken on the line *xx* of Fig. 1 showing a hinged lid in elevation.

Referring now to the drawings 1 designates the wall of the building and 2 the removable rectangular ventilator inserted therein. The ventilator 2 comprises a central member 2', a top member 3 and a bottom member 4. The central member 2' consists of a horizontal partition 5 having integral rectangular deflectors 6 and 6' extending upwardly and downwardly therefrom respectively and disposed perpendicular thereto. The top member 3 consists of a rectangular top portion 7 coextensive and parallel with the partition 5 having integral rectangular deflectors 8 extending downwardly therefrom and disposed perpendicular thereto, and the bottom member 4 consists of a rectangular bottom portion 9 coextensive and parallel with the partition 5 having integral rectangular deflectors 10 ex-

tending upwardly therefrom and disposed perpendicular thereto, all of said deflectors being equally spaced. The deflectors 8 are arranged in the same planes as the deflectors 6' of the partition 5, and the deflectors 10 in the same planes as the deflectors 6 of said partition, the deflectors 8 and 10 having edges which are parallel with said partition and spaced at a distance therefrom, and the deflectors 6 and 6' having edges also parallel with said partition and spaced at a distance from the portions 7 and 9 respectively. The end portions 11 are integral with the partition 5 and the deflectors 6 and 6', as shown in Fig. 2, the top and bottom edges thereof being adapted to abut the portions 7 and 9 respectively.

The ventilator is adapted to fit in the rectangular opening in the wall 1, and when the same is removed the members 2, 3 and 4 may be easily separated for cleansing purposes. When the ventilator is in position in the wall 1 and the lids 12 are in the open position, air may circulate freely in a sinuous course as indicated by arrows in Fig. 1, but when said lids are closed air circulation is prevented. The stops 13 are rectangular blocks projecting over the wall opening and secured to the wall 1 on the outside thereof. These stops prevent the ventilator from moving in one direction and the button 13' pivoted to the wall 1 prevents movement in the other.

To prevent snow or rain from entering the ventilator the openings on the outside thereof are formed adjacent the center and lower edge, it being obvious that if the outside openings were arranged adjacent the center and top edge as on the inside of the ventilator rain would readily collect and render the ventilator ineffectual.

The lids 12 are substantially rectangular in form and are hinged to the brackets 14 secured to the wall 1, the handles 15 being centrally disposed on the lids in order that the same may be easily opened or closed. And a handle 16 is secured to the inside of the ventilator, by means of which the same may be easily withdrawn.

While I have shown what I deem to be the preferable form of my improved ventilator, I do not wish to be limited thereto, as there might be slight modifications thereof which would be comprehended within the scope of my invention.

Having described my invention what I

claim as new and desire to secure by Letters Patent is:

1. A device of the class described, comprising a horizontal partition provided with
5 integral upwardly and downwardly extending staggered deflectors and side walls integral with said partition and deflectors and slightly longer than the deflectors, and upper
10 and lower plates provided with deflectors adapted to extend into the space between said first mentioned deflectors, substantially
as described.

2. The combination with a wall 1 having a rectangular opening, with a rectangular ventilator comprising the horizontal partition 5,

staggered deflectors 6 and 6', and side walls 11 all cast integral with each other; plates 7 and 9 provided with deflectors 8 and 10; hinged lids 12 for closing the openings through said ventilators; and means for re- 20 movably locking said ventilator in said opening.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES A. PETERSON.

Witnesses:

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