

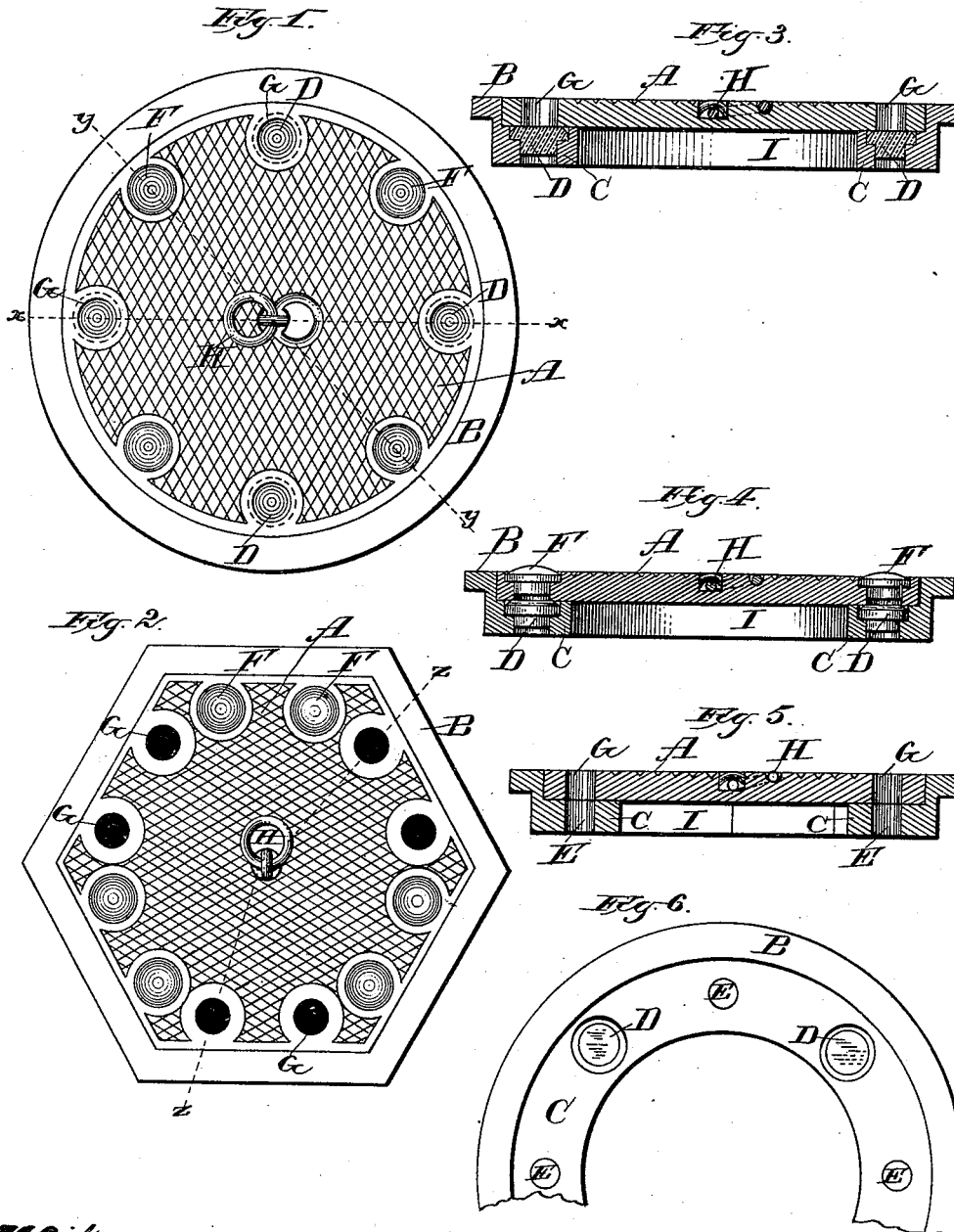
(No Model.)

F. BRAUN.

COMBINED SIDEWALK LIGHT AND VENTILATOR.

No. 345,105.

Patented July 6, 1886.



Witnesses:

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# UNITED STATES PATENT OFFICE.

FREDERICK BRAUN, OF MILWAUKEE, WISCONSIN.

## COMBINED SIDEWALK LIGHT AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 345,105, dated July 6, 1886.

Application filed March 22, 1886. Serial No. 196,114. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK BRAUN, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in a Combined Sidewalk Light and Ventilator; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to vault-covers; and it consists in certain peculiarities of construction, as will be hereinafter described with reference to the accompanying drawings, in which—

Figure 1 represents a plan view of one form of my invention; Fig. 2, a similar view of another form thereof; Fig. 3, a transverse section on line *xx*, Fig. 1; Fig. 4, a similar view on line *yy*, same figure; Fig. 5, a like view on line *zz*, Fig. 2; Fig. 6, a plan view of a portion of the frame or seat.

Referring by letter to the drawings, A represents the top of my vault-cover, and B its frame, said parts varying in size and design as may be found necessary or convenient. The frame or seat B is countersunk upon its interior to form a seat, C, for the cover A, and this seat is provided with a series of openings to receive suitable glasses or other translucent material, D, that serves to admit light to the vault. The seat C of the frame B is also provided with a series of air-passages, E, these latter and the glasses D being preferably alternate or in pairs or series alternately disposed.

The cover A has a series of openings for glasses or other translucent material, F, and a series of air-passages, G, these glasses and air-passages being preferably, either singly or in series, alternate, also, and designed to be brought in and out of register with those in the seat C of the frame B when said cover is in place. The cover A has its exposed surface suitably roughened, as is usually the case in this class of devices, and is provided with a countersunk ring or similar hand-hold, H, to facilitate its removal from the frame B when necessary to open the vault. Ordinarily the cover A rests upon its seat C in the frame B, so that the glasses of one part are in register with the air-passages in the other, as shown by Figs. 1 and 3, thereby permitting the entrance of a considerable amount of light.

When it is deemed necessary to ventilate the vault to which the cover may be applied, the latter is shifted around until its passages G register with those, E, in the seat C, as shown by Figs. 2 and 5, the glasses F D of both parts being in register, as shown by Fig. 4, thus permitting the entrance of sufficient air to accomplish the purpose desired without in any way opening the man-hole I, thereby obviating the necessity of raising or removing said cover, as is ordinarily the case in vault-covers of the usual construction, this feature being of special importance in vaults having their openings on a pavement, as all obstruction and danger to pedestrians is obviated.

In the form of my device shown in Fig. 2, or any analogous form wherein the seat and top have corresponding polygonal edges, the registration of glasses of one part with the glasses or air-passages of the other part can be instantly and automatically accomplished by simply moving the top around the distance of one polygonal edge, while in the form shown in Fig. 1 it will be of course necessary to exercise a little care, in order to accomplish the desired registration; but in this latter form, in case it is desired to admit less than the full amount of light to the apartment or space below the vault-cover, the top can be moved so that the glasses or air-openings in one part will be intermediate between those of the other part, and hence each form of my device possesses peculiar advantages in certain cases.

I have shown in Fig. 2 a hexagonal form of seat and top; but it will be understood that any other polygonal form will accomplish all the results and possess all the advantages of the form shown in Fig. 2.

Heretofore vault-covers have been constructed consisting of two plates, the lower one stationary and provided with radial partitions, some inclosing glass, and others being open, but preventing access to the vault below, the said lower plate having a central seat for the pivot of the upper plate, which is provided with openings, certain of which are glazed, whereby the said cover may be made all close or partly open, and such, therefore, I do not broadly claim; but, so far as I know, I am the first to construct a vault-cover in one piece with openings, glazed and unglazed, in their rim thereof, registering with similar openings in

the seat of said cover, whereby all the advantages of the old construction are obtained, with the additional advantage of ready access to the vault below.

5 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The top A, provided with a series of light-passages, D, and air-passages E, and the frame  
10 B, having a seat, C, for said top, and provided with light-passages F and air-passages G, substantially as and for the purpose set forth.

2. The top A, provided with a countersunk

ring or similar hand-hold, H, a series of light-passages, D, and air-passages E, and the frame 15 B, having a seat, C, for said top, and provided with light-passages F and air-passages G, as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in 20 the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FREDERICK BRAUN.

Witnesses:

H. G. UNDERWOOD,

E. G. ASMUS.