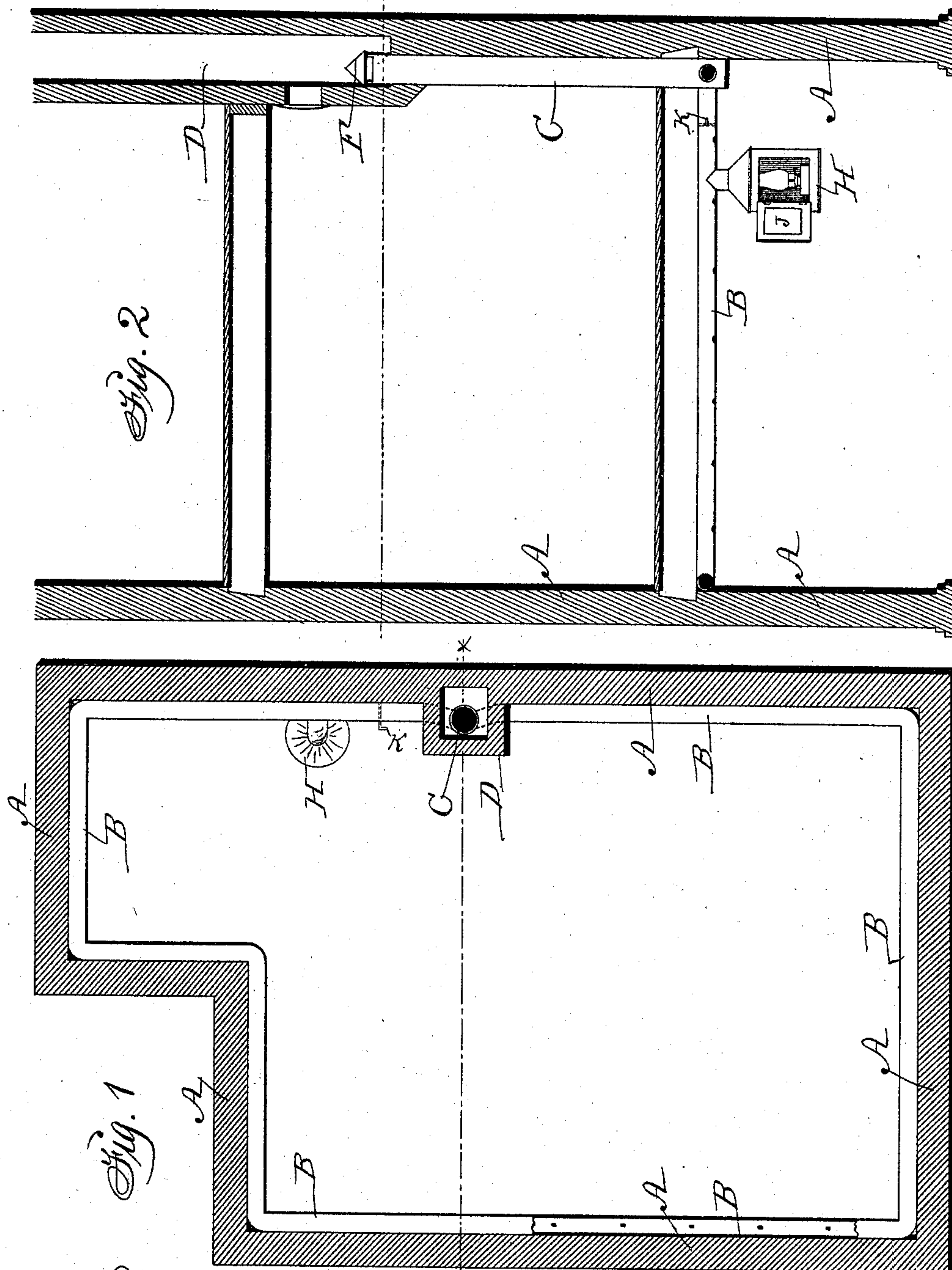


(No Model.)

C. N. STANTON.  
VENTILATOR FOR CELLARS.

No. 584,832.

Patented June 22, 1897.



Witnesses: } Inventor: Charles N. Stanton,  
W. J. Sankley, }  
George Allan } By Thomas C. and J. Ralph Orring,  
Attorneys



# UNITED STATES PATENT OFFICE.

CHARLES N. STANTON, OF COLLINS, IOWA.

## VENTILATOR FOR CELLARS.

SPECIFICATION forming part of Letters Patent No. 584,832, dated June 22, 1897.

Application filed October 21, 1896. Serial No. 609,623. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES N. STANTON, a citizen of the United States of America, residing at Collins, in the county of Story and State of Iowa, have invented a new and useful Ventilator for Cellars, of which the following is a specification.

My object is to prevent the dangers incident to the occupants of buildings in which frost and cold and foul air are allowed to be in a cellar. It frequently occurs that the upper portions of buildings are well warmed and ventilated, while the cellars are cold, and vegetables and other matter stored therein decay and produce a vicious poisonous atmosphere that rises into the rooms above to cause disease in those who inhale it.

My invention consists in the arrangement and combination of an air-heater and illuminator and a perforated induction-tube located in the cellar with an air-conductor and a chimney, as hereinafter set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view showing the location of the induction-tube relative to the walls of a cellar. Fig. 2 is a sectional view of a building, showing the arrangement and combination of all the operative parts.

The letter A designates a cellar-wall, and B a perforated induction-tube fastened to the top portion of the wall or some suitable support near the top of the wall.

It is obvious that the tube B may extend entirely around the cellar and conform in shape with the cellar, so that all parts of the cellar will be subject to the suction produced through the perforations in the tube, as required to carry off foul air from every portion of the cellar more rapidly and certainly than when the induction-tube is not extended to every corner of the top portion of the cellar, and also as required to convey heated air from one end portion of the tube and a heater attached thereto and distribute the heated air along the length of the tube that extends from one side of a chimney and an air-conductor through the cellar and back again to the air-conductor connected with the chimney.

C is an air-conductor in the form of an open-ended tube fixed to the perforated induction-tube B to communicate therewith and to convey foul air therefrom into the chimney D, in which it terminates.

H represents an air-heater and illuminator in the form of a sheet-metal case provided with a door through which a lamp J is passed in and out as required to clean and fill the lamp with oil whenever necessary. Pieces of transparent glass J, fitted and fixed in openings of corresponding shape and size in the door and the sides of the case, allow the light of the lamp to shine through, so as to illuminate the cellars that would otherwise be dark and dismal in daytime as well as at night.

The top of the heater is contracted and fixed to the tube B at some distance from where the tube B is joined to the air-conductor C. A damper K is located in the tube B at a point between the air-heater H and the air-conductor C in such a manner that when it is desired to warm the atmosphere in the cellar the damper can be readily closed and the heat generated by the lamp or heater distributed through the tube B by radiation, as the current or draft will be from the heater around the cellar through the tube B to the vertical conductor C.

F is a hood on top of the tube C, adapted in form to prevent soot or other matter from falling into the tubes C and B and to aid in creating suction or draft, as required to draw out and convey foul air from the cellar.

It is obvious that an opening in the wall of the cellar to admit fresh air will greatly aid in maintaining a pure atmosphere in the cellar and complete building in which my invention may be advantageously applied to operate in the manner set forth.

Having thus described my invention and its application, operation, and utility, what I claim, and desire to secure by Letters Patent therefor, is—

A cellar-ventilator, air-heater, and illuminator, comprising a perforated induction-tube connected at both ends with an air-conveyer, an air-conveyer connected with a chimney, an air-heater and illuminator connected with one end portion of the perforated tube and a damper in the end portion of the perforated tube to which the air-heater and illuminator is attached and between the said heater and illuminator and the air-conductor and chimney, to operate in the manner set forth.

CHAS. N. STANTON.

Witnesses:

W. H. THOMPSON,  
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