

Improvements in ventilating apparatus / [Ferdnand Diets].

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Publication/Creation

London : Printed for Her Majesty's Stationery Office by Darling and Son, Ltd, 1894.

Persistent URL

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N^o 19,833



A.D. 1893

Date of Application, 21st Oct., 1893

Complete Specification Left, 21st July, 1894—Accepted 15th Sept., 1894

PROVISIONAL SPECIFICATION.

Improvements in Ventilating Apparatus.

I, FERNAND DIETS, of 16 Rue Notre-Dame des Victoires, Paris, in the Republic of France, Jeweller, do hereby declare the nature of this invention to be as follows:—

5 My invention relates to ventilating apparatus particularly applicable to ventilating rooms and apartments, and the chief object of my invention is to ventilate without causing a draught, to purify the air entering by the ventilator, or to charge the air with scent or any antiseptic.

10 In applying my improved ventilator to a window I propose to remove one pane of glass and fix the ventilator to the outside of the window frame, or it might be to the inside. A convenient arrangement consists of a casing composed of two end frames preferably wider at the top than at the bottom and secured to the window frame one at each end of the opening from which the pane of glass has been removed. The end frames are about equal in depth to the opening and are connected by say a sheet of glass.

15 In order to admit air to the ventilator I cover the upper part of the casing with a sheet of glass or other suitable material held in a frame pivoted on brackets carried by the end frames near the window opening at one end, and at the other by adjustable rails carried also by the end frames and mounted in such manner that the back portion of the glass can be readily raised by means of the rails so as to admit more or less air as required.

20 In order to prevent impurities passing through the ventilator into the room I propose to employ a sheet of wire gauze or other suitable fabric which is stretched across the ventilator casing below the movable sheet of glass.

25 If it be desired to scent the air admitted, or to charge it with an antiseptic, a convenient plan is to fix below the gauze a perforated pipe extending from end to end of the ventilator casing and filling this with sponge or other suitable material charged with scent *etc.*, the perforated pipe being preferably made in two parts and hinged together for this purpose.

30 This improved ventilator is readily cleaned, it offers but little obstruction to the free admission of light, and when desired it can be applied in a similar manner to a door or other convenient opening into a room or building.

Dated this 20th day of October 1893.

H. B. BARLOW & GILLETT,
Agents for Applicant.

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COMPLETE SPECIFICATION.

Improvements in Ventilating Apparatus.

I FERNAND DIETS, of 16 Rue Notre-Dame des Victoires, Paris, in the Republic of France, Jeweller, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

40 My invention relates to ventilating apparatus particularly applicable to ventilating rooms and apartments, and the chief object of my invention is to ventilate without causing a draught, to purify the air entering by the ventilator, or to charge the air with scent or any antiseptic.

[Price 8d.]

Diets' Improvements in Ventilating Apparatus.

In applying my improved ventilator to a window I propose to remove one pane of glass and fix the ventilator to the outside of the window frame, or it might be to the inside. A convenient arrangement consists of a casing composed of two end frames preferably wider at the top than at the bottom and secured to the window frame one at each end of the opening from which the pane of glass has been removed. The end frames are about equal in depth to the opening and are connected by say a sheet of glass. 5

In order to admit air to the ventilator I cover the upper part of the casing with a sheet of glass or other suitable material held in a frame pivoted on brackets carried by the end frames near the window opening at one end, and at the other by adjustable rails carried also by the end frames and mounted in such manner that the back portion of the glass can be readily raised by means of the rails so as to admit more or less air as required. 10

In order to prevent impurities passing through the ventilator into the room I propose to employ a sheet of wire gauze or other suitable fabric which is stretched across the ventilator casing below the movable sheet of glass. 15

If it be desired to scent the air admitted, or to charge it with an antiseptic, a convenient plan is to fix below the gauze a perforated pipe extending from end to end of the ventilator casing and filling this with sponge or other suitable material charged with scent *etc.*, the perforated pipe being preferably made in two parts and hinged together for this purpose. 20

And in order that my invention may be fully understood and readily carried into effect I will describe the accompanying sheet of drawings reference being had to the figures and letters marked thereon.

Fig. 1 represents the improved ventilator applied to one window in a window frame. 25

Fig. 2 is an enlarged front elevation, Fig. 3 is an end view and Fig. 4 a sectional end view on the line 4 4, Fig. 2, of a ventilator constructed according to my invention.

In the drawings,—A represents the body or frame of the ventilator which is secured to the window frame by rails such as *a*, see Fig. 2; to the frame A is secured a metal framing A¹ which supports a sheet of glass B which is set obliquely to the plane *m, n* of the window, a second sheet of glass C is held in a frame which is pivoted to the end frames on studs *c* the front edge of the sheet C is supported at one end by an arm D which is notched at *d* and *d*¹ the notch *d* being shown in Fig. 3 resting upon one of the button headed pins E secured to one end of the body A; the frame and the glass C is raised and lowered by a handle D³. 30

To studs *f* carried by the body A is pivoted a sheet of fine wire gauze or other suitable material F which extends the full length of the ventilator and rests when closed upon a stud or pin *h* secured to a plate H which is guided by a handle *h*¹, the stud end of which passes through a slot *h*² of peculiar shape in one end plate A and further by a pin *h*⁴ which is secured to the end frame A and rests in a slot *h*³ cut in the plate H. When the handle *h*¹ is raised the plate H to which it is secured raises the sheet of metal gauze F on its pivots *f* and it can be held there by pushing the handle *h*¹ into the curved head *h*⁵ of the slot *h*². When in the position shown in Fig. 4 the metal gauze F can be fastened by means of a catch or bolt G. 40

If it be desired to introduce into the room or apartment to which the ventilator is fitted air charged with an antiseptic or a perfume, I employ a suitable absorbent material such as sponge, cotton wadding, wick, or the like, and impregnate the same with the antiseptic or perfume *etc.*, and in order to apply the antiseptic material conveniently I employ a perforated metal tube K preferably hinged along one side into which the impregnated material is placed; this tube is fixed about in the position shown in Fig. 4 so that the air passing through the ventilator will carry forward some of the antiseptic. 50

The amount of air to be admitted to the room is regulated by opening or closing the top glass plate C by means of the handle D³. 55

Diets' Improvements in Ventilating Apparatus.

This improved ventilator can be readily cleaned inside and outside, and it has the advantage of offering but very slight obstruction to the passage of light into the room. The ventilator can be readily applied to the outside of the window or to the inside, or outside, of a door or other opening into a room or building.

5 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

1. A ventilator composed of a framework supporting a front plate of glass or other suitable material, an adjustable upper plate pivoted so that its front edge
10 when closed rests upon the first plate, in combination with a pivoted or movable sheet of gauze or equivalent, for preventing the admission of dirt into the ventilator all substantially as and for the purposes described.

2. In combination with a ventilator as described the application of a tube formed
15 in two or more parts for the reception of an antiseptic perfume or other material substantially as described.

3. The general construction combination and arrangement of parts forming the improved ventilator substantially as described and as illustrated in the accompanying drawings.

Dated this 20th day of July 1894.

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H. B. BARLOW & GILLETT,
17, St. Ann's Square, Manchester, Agents for Applicant.

London: Printed for Her Majesty's Stationery Office, by Darling & Son, Ltd.—1894



I hereby certify that the within and foregoing is a true and correct copy of the original as the same appears in the records of the office of the Secretary of the Interior.

Witness my hand and the seal of the Department of the Interior at Washington, D.C., this 10th day of August, 1908.

Very truly yours,
John D. Brown, Secretary of the Interior

Approved: _____
Assistant Secretary of the Interior

Filed for record in the office of the Secretary of the Interior at Washington, D.C., this 10th day of August, 1908.

W. H. BARRETT, Attorney at Law, St. Paul, Minn.

Witness my hand and the seal of the Department of the Interior at Washington, D.C., this 10th day of August, 1908.

[This Drawing is a reproduction of the Original on a reduced scale]



