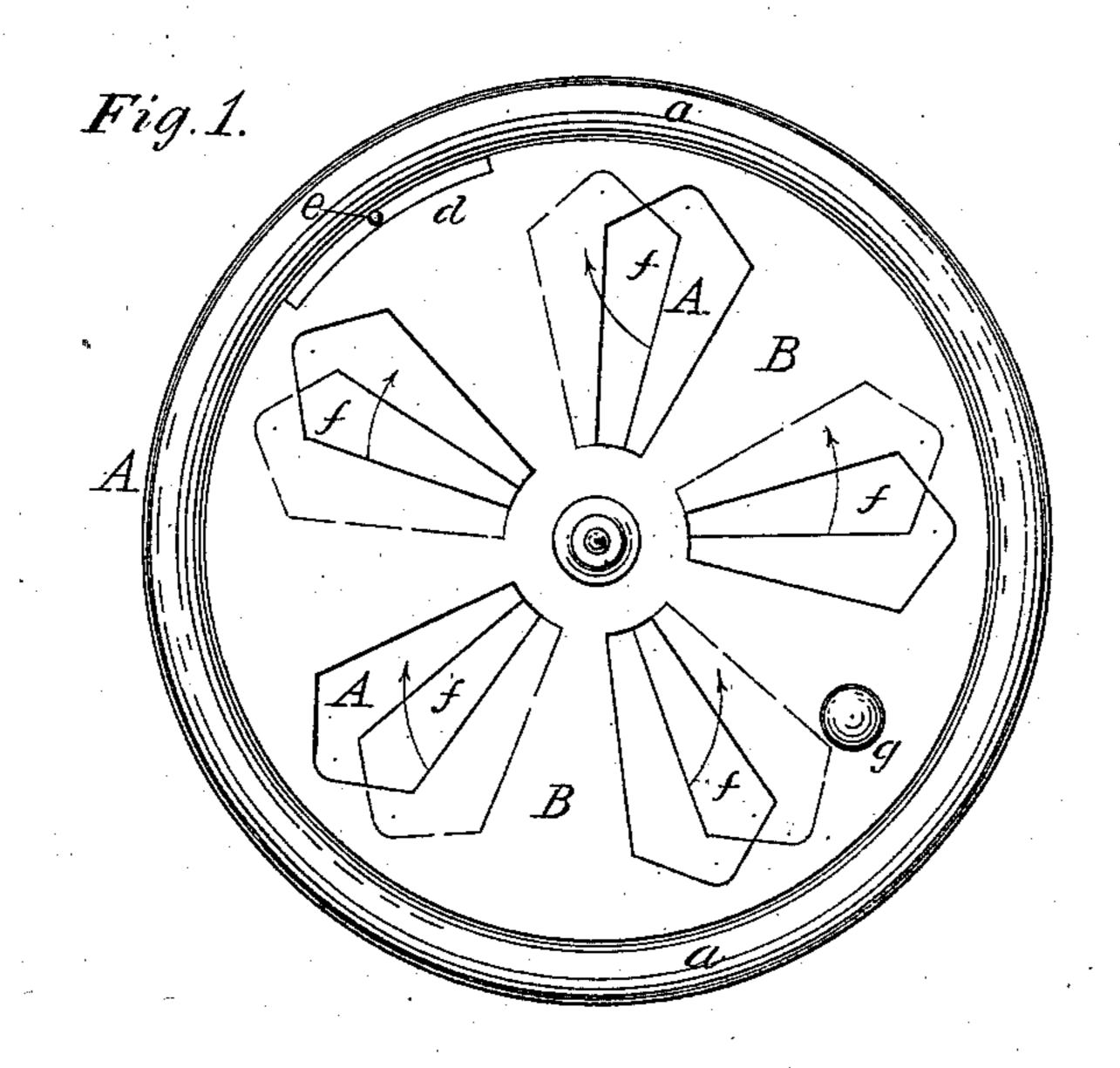
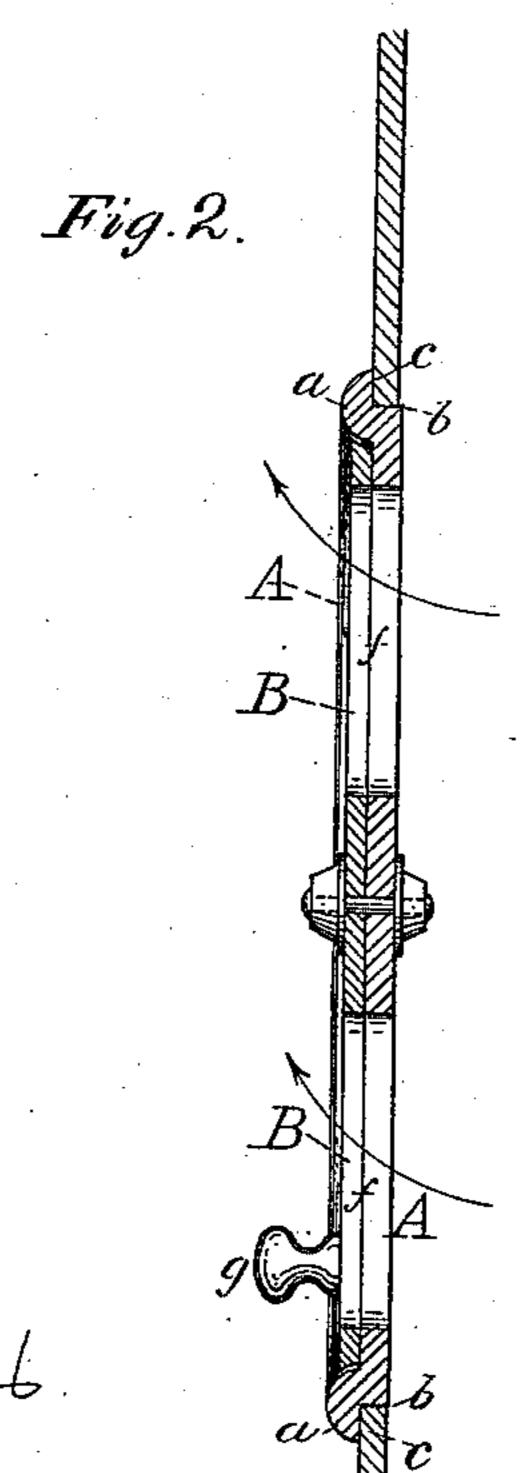
G. R. BUFFHAM. Ventilator

No. 215,791.

Patented May 27, 1879.





Attest:

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Byhis Attorneys:

UNITED STATES PATENT OFFICE.

GEORGE R. BUFFHAM, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN VENTILATORS.

Specification forming part of Letters Patent No. 215,791, dated May 27, 1879; application filed January 31, 1878.

To all whom it may concern:

Be it known that I, George R. Buffham, of Brooklyn, Kings county, New York, have invented certain new and useful Improvements in Ventilators, of which the following

is a specification.

This invention relates to that class of ventilators intended for insertion in the panes of windows, and formed of two perforated or register plates, movable upon each other to admit or exclude the air; and the novelty of my invention consists in producing a ventilator of this kind of pressed or molded glass, adapted for insertion in the opening of a window-pane.

The invention also consists in the specific construction of the device—that is, in forming the fixed plate of the ventilator with a rabbeted edge and with a raised rim or bead,

as hereinafter described.

Figure 1 of the annexed drawings shows the improved ventilator viewed from the inner side, and Fig. 2 is a sectional view thereof.

A is the fixed plate of the ventilator, which is inserted in the opening of the window-pane, and secured by cement or other means.

B is the movable plate, pivoted to the center of the fixed plate, and provided with the

operating-knob \bar{q} .

The plates are perforated, in the usual manner, with corresponding ventilating-openings, f f, of suitable form and number, which are opened or closed by partly rotating the movable plate one way or the other, as desired, to permit or exclude ventilation. The movements of the plate B are limited by the ends of the notch d striking the pin c in the plate A.

Thus formed, the ventilator is made of glass, the plates A B being pressed or molded from this material. I prefer to employ a special process for their production, which it is not necessary to here describe, as I propose making it the subject of a separate patent.

Being thus formed of glass, the ventilators can be furnished cheaply, and, while being very neat and durable, have the great advantage of not obstructing the light, since they are made of the same transparent material as the window-pane itself; and as this material

admits of great ornamentation, the ventilators are thus adapted for the windows of handsome dwellings as well as for more common purposes.

The ornamentation may be embossed upon the plates in the act of molding or pressing, or it can be afterward applied by etching, by the sand-blast, or otherwise; and by using a combination of colored glasses a very pleas-

ing effect can be thus produced.

Another advantage of a glass ventilator is, that it is not capable of tarnishing or rusting, as metal is, but is quite weather-proof, and will always remain in a working condition and preserve its ornamental appearance. Being formed of the same material as the pane, a more harmonious effect is produced, and changes in temperature will not affect the attachment of the ventilator with the pane.

I construct the fixed plate A, as shown more fully in Fig. 2, with a rabbeted edge, b c, which is adapted to securely fit the opening of the window-pane, the flat shoulder c resting against the inner surface of the pane, as shown. A raised rim or bead, a, also extends around the inner circumference of the plate A, forming a central recess, in which the movable plate B is neatly socketed, so as to be nearly flush with the raised rim.

The bead or rim a protects the edge of the movable plate and imparts a finished appear-

ance to the article.

This construction of the edge is not, of course, confined to glass, but applies also to other materials.

I am aware that a ventilator has been previously made of glass, but not in the shape of a complete article independent of the window-pane itself, and adapted to be inserted therein, as in my invention.

I have shown the plates as of circular form and partly rotatable; but they can also be made rectangular and movable longitudinally upon each other with the same effect; but the circular form is more adopted, and is preferable.

What I claim as my invention is—

1. As a new article of manufacture, a transparent registering-ventilator consisting of a

flanged molded plate, A, adapted to an opening in a window-pane, and a movable molded plate, B, pivoted centrally to the plate A, substantially as set forth.

2. A window-ventilator composed of the fixed plate A, having its rim provided with the rabbeted edge b c and raised bead a, in combination with the movable plate B, sock-

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eted in the recess of the fixed plate within the bead a, substantially as herein shown and described.

GEO. R. BUFFHAM.

Witnesses:
SAM. TRO. SMITH,
CHAS. M. HIGGINS.