C. E. DARLING.

VENTILATOR.

No. 191,033. Patented May 22, 1877.

Fig. 2.

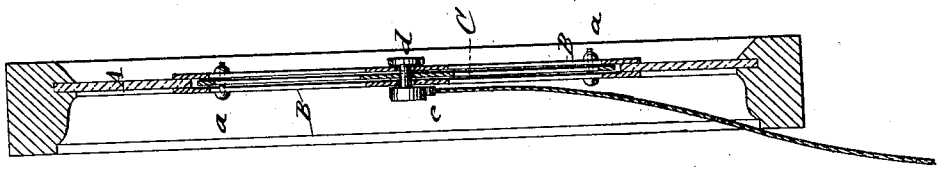
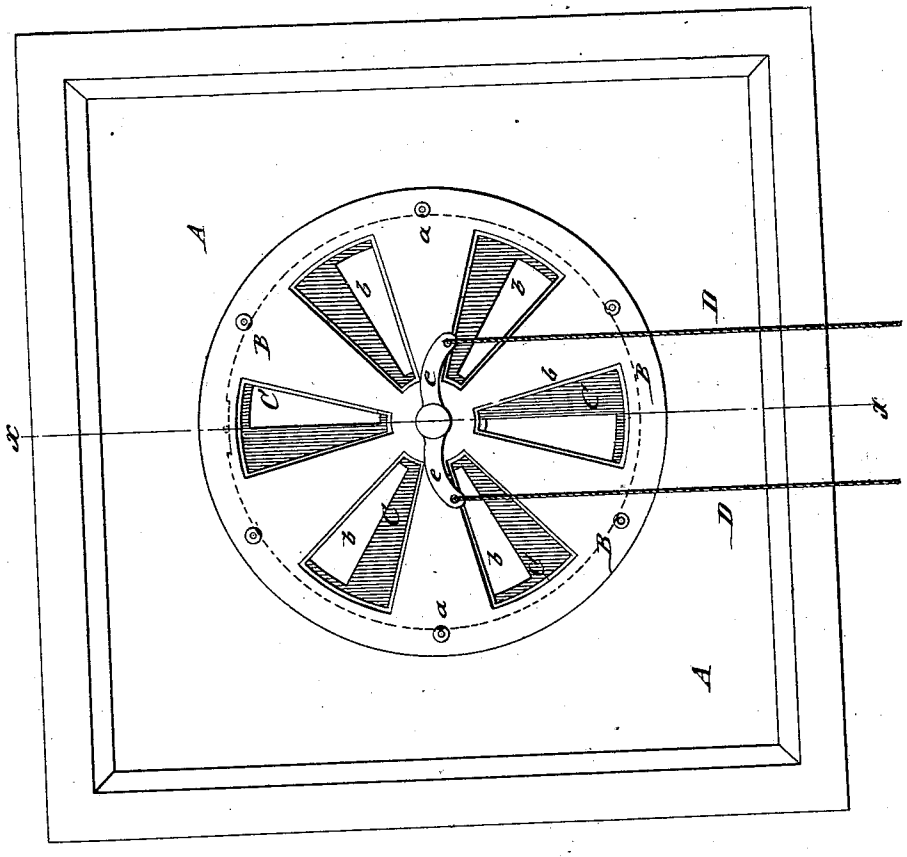


Fig. 1.



WITNESSES:

H. Rydquist

J. H. Scarborough

INVENTOR:

C. E. Darling.

BY Munn & Co

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES E. DARLING, OF LEWISTON, MAINE, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO HENRY FREE AND JOHN E. LYDSTON, OF SAME PLACE.

IMPROVEMENT IN VENTILATORS.

Specification forming part of Letters Patent No. **191,033**, dated May 22, 1877; application filed April 30, 1877.

To all whom it may concern:

Be it known that I, CHARLES E. DARLING, of Lewiston, Androscoggin county, Maine, have invented a new and Improved Ventilator, of which the following is a specification:

Figure 1 represents a front view, and Fig. 2 a vertical transverse section, of my improved ventilator on line *x x*, Fig. 1.

The invention has reference to an improved ventilator for windows, doors, &c., that works in noiseless manner, and is perfectly water-tight; and the invention consists of radially-recessed face-disks, clamped to the glass frame, and having an intermediate pivoted disk with corresponding recesses that are set by a crank-lever and cords into open or closed position.

In the drawing, A represents a glass pane of a door or window, and B B two face-disks of suitable sheet metal, that are attached by clamp-screws *a* to the frame and tightly sealed at their circumferences on the glass by means of putty, a circular opening of the required size having first been cut in the pane.

The face-disks are provided with radial sector-shaped recesses *b*, which alternate with uncut portions of the same size.

Between the face-disks B is guided an intermediate disk, C, that is recessed in corresponding manner as the face-disks and keyed to a center pivot, *d*, which is retained by a screw-nut.

The center pivot and center disk are turned by crank-arms *e* of the pivot and by pendent cords D, attached to the arms *e*, so that the ventilator may be readily opened and closed at whatever height the same is arranged, by pulling either one of the cords.

The inner disk C is notched at the circumference and brought into contact with a stop-pin of the face-disks, so as to be only turned to the extent of opening or closing the recesses or apertures of the face-disks.

The ventilator forms a water-tight and noiseless attachment to the panes, and may be opened and closed as desired.

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

1. The combination of radially-recessed face-disks, clamped to the glass pane with a correspondingly-recessed inner disk that is centrally pivoted and adjusted between the same, to open or close the ventilator, substantially as described.

2. The combination of the recessed face-disks B, clamped to the pane, and inner disk C, having central pivot and crank-arms, and operating-cords D, substantially as specified.

CHARLES E. DARLING.

Witnesses:

GEORGE C. WING,

CHAS. E. WING.