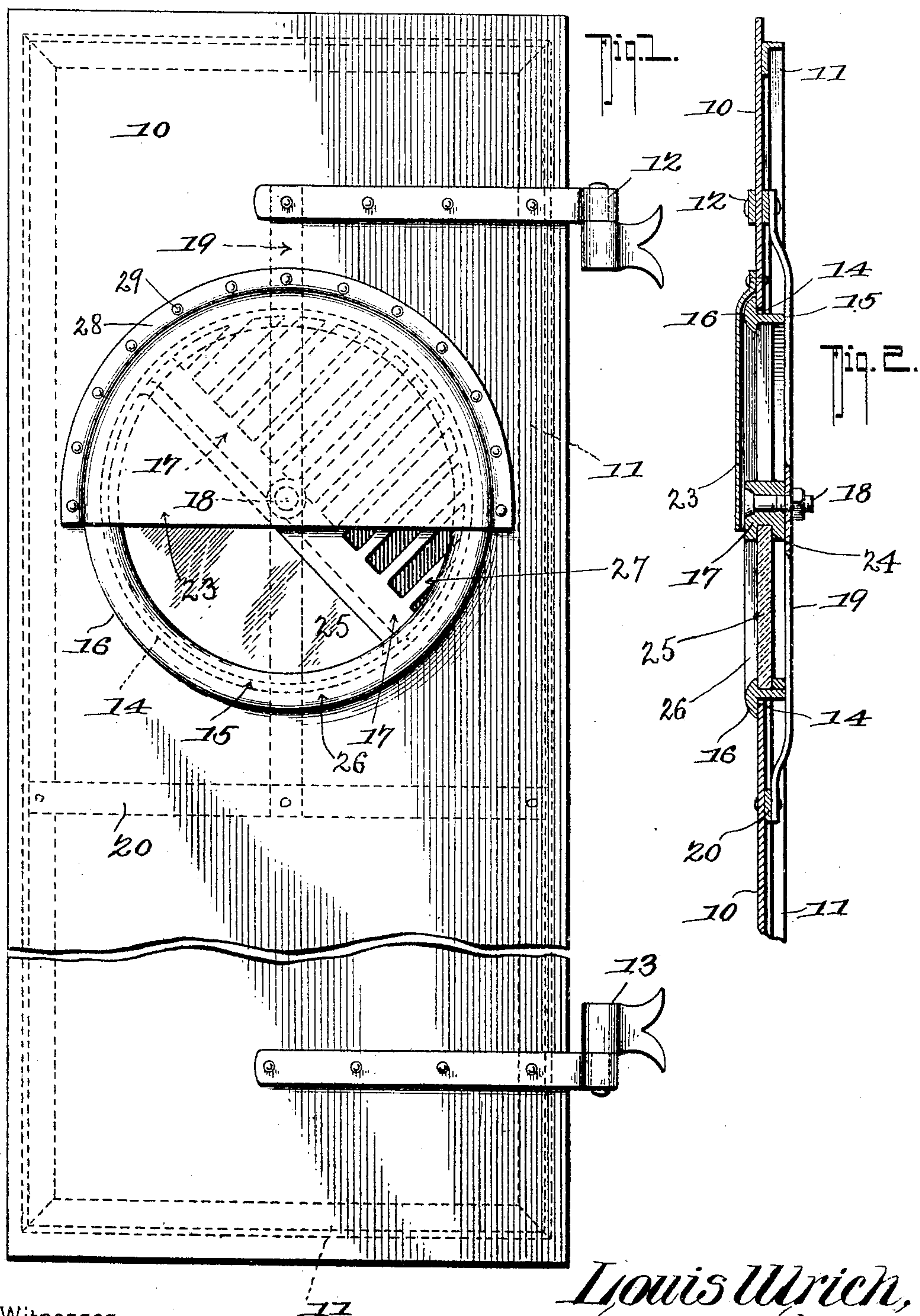


No. 803,863.

PATENTED NOV. 7, 1905.

L. ULRICH.
DOOR VENTILATOR.
APPLICATION FILED DEC. 16, 1904.



Witnesses
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UNITED STATES PATENT OFFICE.

LOUIS ULRICH, OF BROOKLYN, NEW YORK.

DOOR-VENTILATOR.

No. 803,863.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed December 16, 1904. Serial No. 237,119.

To all whom it may concern:

Be it known that I, LOUIS ULRICH, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Door-Ventilator, of which the following is a specification.

This invention relates to combined ventilators and windows employed in cellar and vault doors and for like purposes, and has for its object to provide a simply-constructed and easily-operated device whereby a transparent portion or a grated portion may be disposed opposite a transverse aperture to provide for lighting or ventilating, as may be required.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings, Figure 1 is a side elevation of a door with the improvement applied. Fig. 2 is an enlarged sectional detail of the same.

The improved device may be applied to many forms of structures where light and ventilation are required alternately, but is more particularly applicable to the doors of cellars, vaults, and similar apartments or localities, and for the purpose of illustration is shown applied to an approved form of sheet-metal door (represented at 10) and provided with the usual angle-iron frame 11 and hinges 12 13.

A circular aperture 14 is formed through the body of the door, and mounted for rotation in this aperture is a circular frame 15, having an exterior flange 16, bearing against the outer face of door adjacent to the aperture.

The frame 15 is provided with a transverse central bar 17, carrying a pivot-bolt 18, the inner end of the bolt supported by a brace member 19, secured by its ends to the door, preferably by one of the rivets or bolts of the

hinge 12 at one end and to a transverse strap 20 at the other end, the strap in turn being riveted at the ends to the angle-iron frame 11. By this means the frame 15 is rotative within the aperture and firmly supported in position therein and prevented from causing undue friction against the sides of the same.

The central bar 17 is provided along one side with a channel, as indicated at 24, and into this channel the straight edge of a semi-circular plate of glass 25 is inserted while the curved edge bears against the rim of the frame and the inner face of the flange 16 and held in place by a stop-rib 26. At the opposite side of the bar 17 the area is occupied by a plurality of spaced grate-bars 27, as shown.

A sheet-metal shield 23 extends over the upper half of the aperture 14 and the rotating frame supported therein and with the curved portion 28 of its margin bent laterally and attached, as by rivets 29, to the outer face of the door. The shield thus covers and protects the rotating frame and guards the same from injury and also effectually prevents the entrance of rain or snow. The shield is of sheet metal struck up from a single piece and is an important feature of the invention and adds materially to the value and efficiency of the device.

For the purpose of illustrating the construction more fully the frame 15 is shown in Fig. 1, turned about one-fourth or with the bar 17 obliquely to the longitudinal plane of the door; but it will be understood that when in use the frame will be set with the bar square across the door with the glass portion 25 or the grate portion 27 exposed below the shield 23, as may be required. By this arrangement it will be obvious that a simply-constructed and convenient device is produced, whereby either a transparent or grated covering may be disposed across the uncovered portion of the aperture, as required, so that either light without ventilation or light and ventilation may be obtained and without exposing the interior of the apartment protected by the door to the danger of surreptitious visits from unauthorized persons or to the entrance of animals or the like.

The device may be of any required size and applied to any form of structure in which such devices may be required.

Having thus described the invention, what is claimed is—

1. The combination with a body having a substantially circular opening therein, of a

cross-bar secured diametrically across the opening and offset at one side of the body, an open annular frame rotatable in the opening and having a diametric cross-bar centrally piv-
5 oted to the cross-bar of the body, a grating provided in the rotatable frame at one side of the cross-bar, and a transparent plate carried within the frame at the other side of the cross-bar, and a hood carried by the body independ-
10 ently of the rotatable frame and embracing substantially one-half of the latter.

2. The combination of a body having a circular aperture, an annular frame mounted for rotation in said aperture and provided with a
15 transverse central bar having a longitudinal channel on one side and with spaced grate-

bars at the other side, and with an outwardly-projecting flange bearing against one side of the body adjacent to the aperture, a transparent member extending between said frame 20 and transverse bar and bearing by one edge in the channel in the same, a brace-bar connected at the ends to the opposite side of said body, a pivot-bolt connecting said transverse bar to said brace. 25

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LOUIS ULRICH.

Witnesses:

JOHN E. SULLIVAN,
DAVID MEYER.