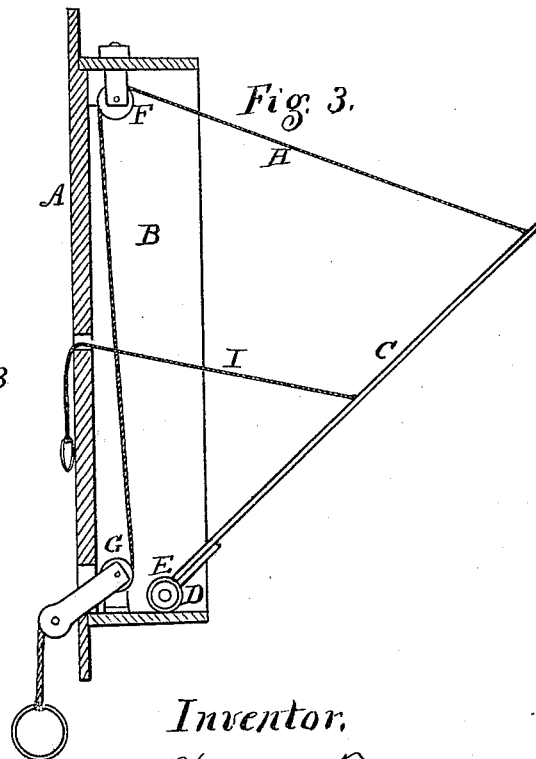
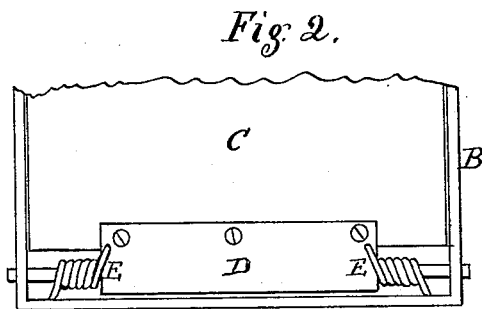
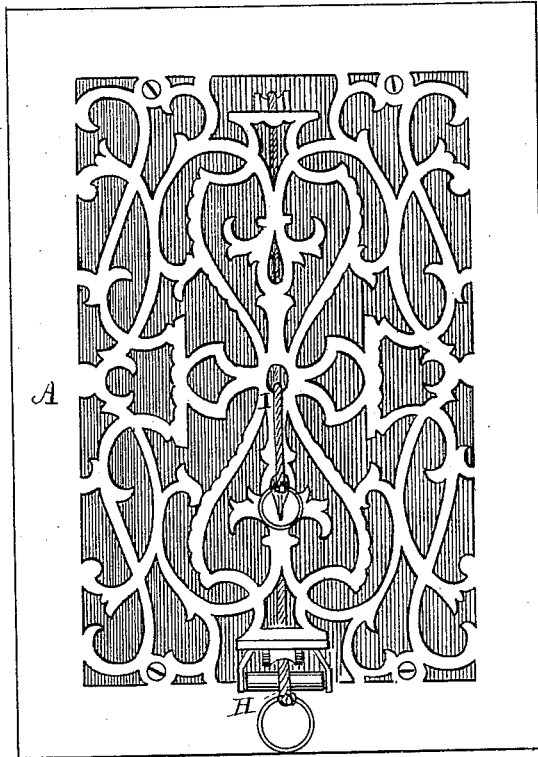


H. FRITZ.
Ventilating Register.

No. 165.721.

Fig. 1.

Patented July 20, 1875.



Witnesses
H. B. Tibbitts
J. Mahan

Inventor,
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By Geo. W. Tibbitts his Atty.

UNITED STATES PATENT OFFICE.

HERMAN FRITZ, OF CLEVELAND, OHIO.

IMPROVEMENT IN VENTILATING-REGISTERS.

Specification forming part of Letters Patent No. **165,721**, dated July 20, 1875; application filed May 24, 1875.

To all whom it may concern:

Be it known that I, HERMAN FRITZ, of Cleveland, county of Cuyahoga and State of Ohio, have invented an Improved Ventilating-Register, of which the following is a specification:

This invention relates to a register to be used either as a ventilating or hot-air register, and consists of a damper or valve hinged at its lower end in a frame forming part of the register, and provided with a spring or springs either on the pintal of the hinge or in some other suitable manner, whereby the damper will be thrown open when released from its catch, by means of an arrangement of cords and pulleys connected therewith, substantially as hereinafter described and claimed.

To enable others to fully understand my invention, I proceed to describe the same in detail, with the aid of the accompanying drawing, in which—

Figure 1 is a front view of the register. Fig. 2 is a back view of lower part of same, showing damper, hinge, and springs. Fig. 3 is a vertical section, showing the arrangement of cords and pulleys.

A is an ornamental front to a register. B is a frame attached to said front by lugs and screws. C is a damper fitting easily in said frame, and secured therein at the lower end by a hinge, D. The corners of the damper-plate are cut away to admit of a spiral spring, E, to be placed on the pintal of the hinge at each end thereof, the said spring having one end

secured to the damper, the other lying on the frame B.

In the top of the frame is placed a pulley, F, and at the lower end is also a pulley, G. Over said pulleys is passed a cord, H, one end being fastened to the top end of the damper, the other passing out through an opening in the front A over a friction-roller, and hangs suspended down the wall, having a ring on the end for attaching the same to a hook. This cord is designed for closing the damper.

When used as a ventilating-register, it is usually placed in the wall near the top of a room, and is operated when in that location by the cord H. When, however, the device is employed as a hot-air register, it is placed in the lower part of the wall near the floor, and is reversed so that the damper hangs suspended. In this case the cord H and the pulleys may be dispensed with, and a cord, I, substituted therefor, for operating the valve or damper.

Having described my invention, I claim—

In a register, the combination, with the spring-hinged damper C, opening automatically, of a cord, arranged and operating as described, for the purpose of closing and retaining said damper in any desired position, substantially as specified.

HERMAN FRITZ.

Witnesses:

GEO. W. TIBBITTS,

ANDREW SQUIRE.