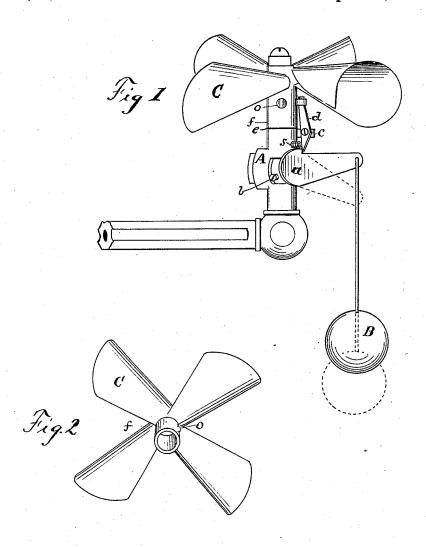
(No Model.)

W. F. DINSE.

GAS EXTINGUISHER.

No. 305,059.

Patented Sept. 16, 1884.



WITNESSES

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WILLIAM F. DINSE, OF NEW HAVEN, CONNECTICUT.

GAS-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 305,059, dated September 16, 1884.

Application filed December 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. DINSE, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Gas-Extinguishers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improvement in gas-burners; and it consists of a gas-burner provided with a rotary fan, and suitable mechanism for connecting said fan with the valve which controls the flow of gas to the burner.

The object of this invention is to provide a means by which the flow of gas shall be immediately stopped whenever the flame is extinguished by "blowing out," and I attain this object by the novel arrangement of new elements, which are more fully described and claimed hereinafter.

In the annexed drawings, Figure 1 represents a detached portion of a gas fixture to which is attached one of my improved gasburners complete. Fig. 2 is a perspective view of the under side of the rotary fan.

Letters of like name and kind refer to like

parts in each of the figures.

The gas-burner A is adapted to be screwed upon any fixture, the same as ordinary burners used prior to this invention, and is provided with a common "plug-valve," a, which controls the flow of gas through the burner A. The valve a has an arm extending at a right angle with its axis, and from the outer extremity of this arm is suspended the weight B, which aids in operating the valve a, more

fully explained hereinafter. A suitable screw or pin is secured in the stem of the valve a, 40 as shown at b in Fig. 1, which operates in the recess cut in the burner A as a stop, regulating the movement of the valve a. The burner A is still further provided with an extension, c, upon which is journaled a vertical lever, d,

45 having a small roll adapted to revolve upon its upper end. The upright stem of the burner A is reduced in size at *e* sufficiently to enable

the central sleeve, f, of the rotary fan C being placed upon the burner A, with the lower end of the sleeve fresting upon the shoulder formed at 50 e, as shown in Fig. 1. The rotary fan C is composed of a series of involute blades radiating from a common center, and provided with the central sleeve, f. o is a small projection upon the central sleeve, f, which operates the ver- 55 tical lever d. The right-angled arm of the valve a is provided with a notch upon its upper side, into which the lower end of the vertical lever d is forced whenever the arm and appurtenant weight B is lifted into the posi- 60 tion indicated by the solid lines in Fig. 1 by the small spiral spring s. When the arm of the valve a is raised into the position indicated by solid lines in Fig. 1, the valve a is open, allowing the gas to flow through the 65 burner, and is retained in that position by the vertical lever d being pressed into the notch on the arm of the valve a by the spring s. Should any one attempt to extinguish the flame by blowing with the breath, or any other 70 strong current of air, the rotary fan C will immediately begin to revolve, carrying the projection o on the central sleeve, f, under the roll upon the end of the vertical lever d, which operation disengages the lower end of the le- 75 ver d from the notch in the arm of the valve The valve being thus released, the gravity of the weight B immediately brings the valvearm into the position indicated by dotted lines in Fig. 1, when the valve is closed and the 8c

flow of gas stopped.

Having described my invention, what I claim, and desire to secure by Letters Patent,

A gas-burner provided with a plug-valve, 8; a, weight B, lever d, spring s, and rotary fan C, all being combined and arranged to operate substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. DINSE.

Witnesses:

Louis S. DAY, E. N. Alling.