

W. D. GUSEMAN.
Blowers for Fire-Grates.

No. 149,854.

Patented April 21, 1874.

Fig. 1

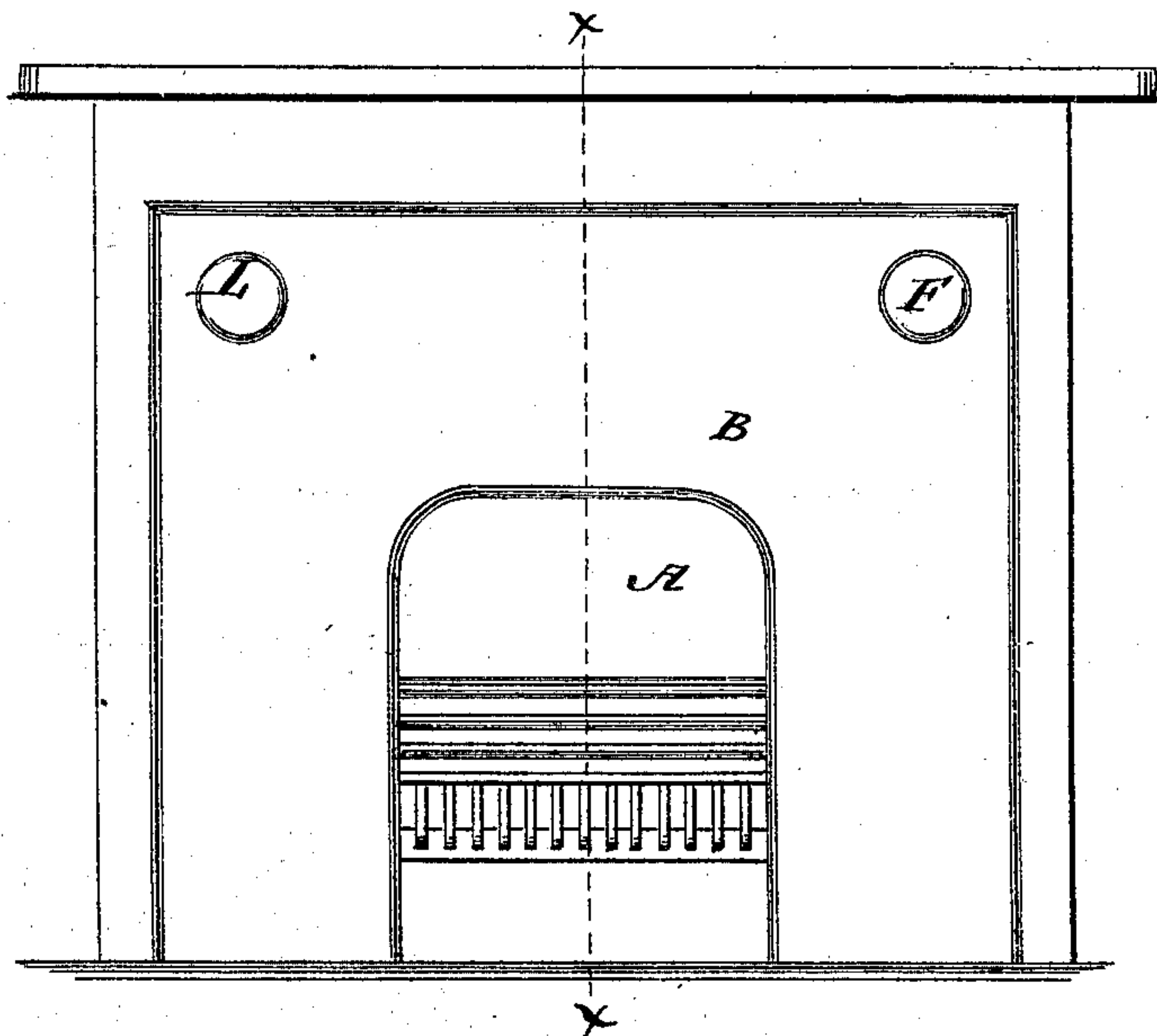


Fig. 3

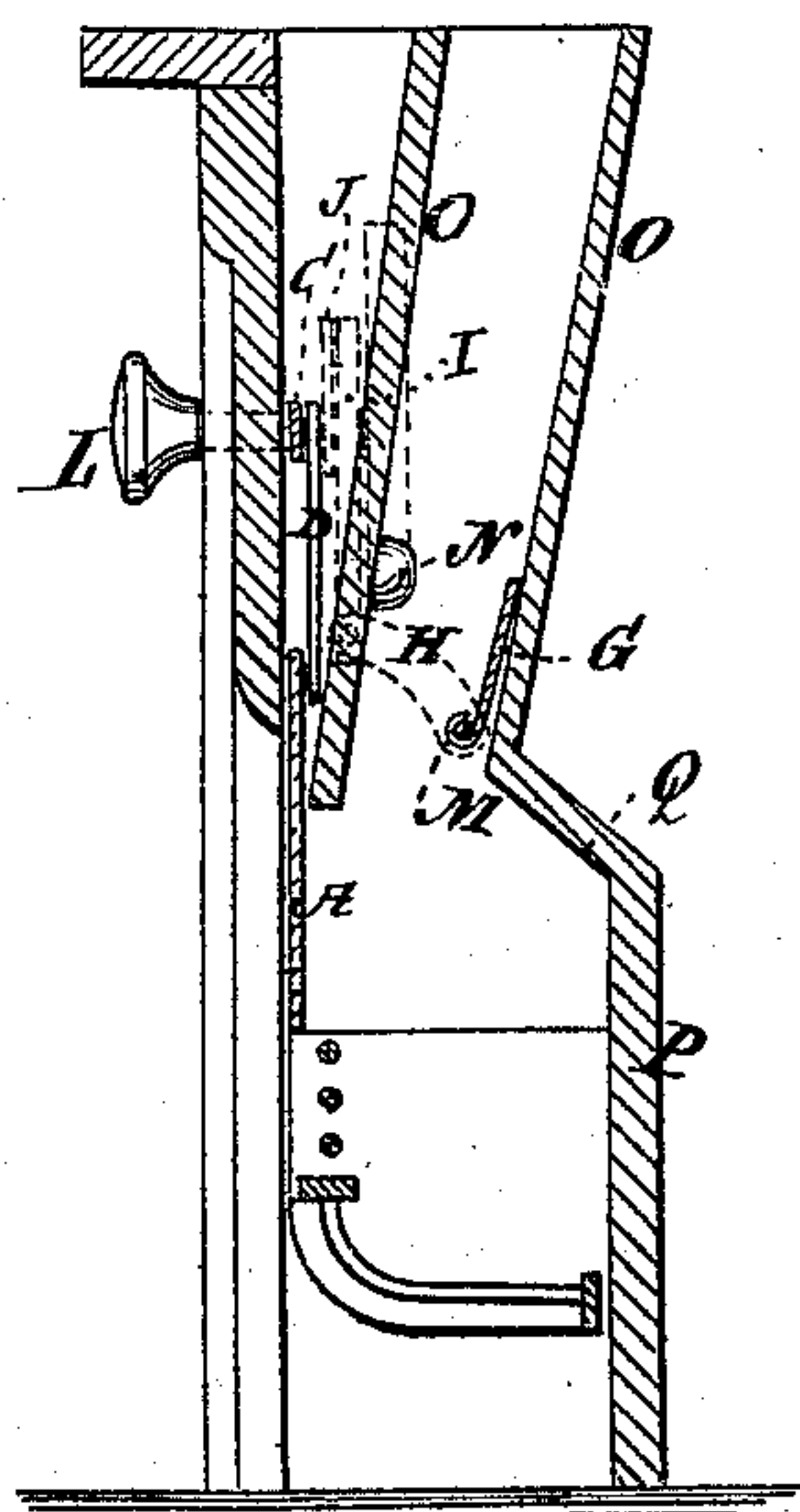
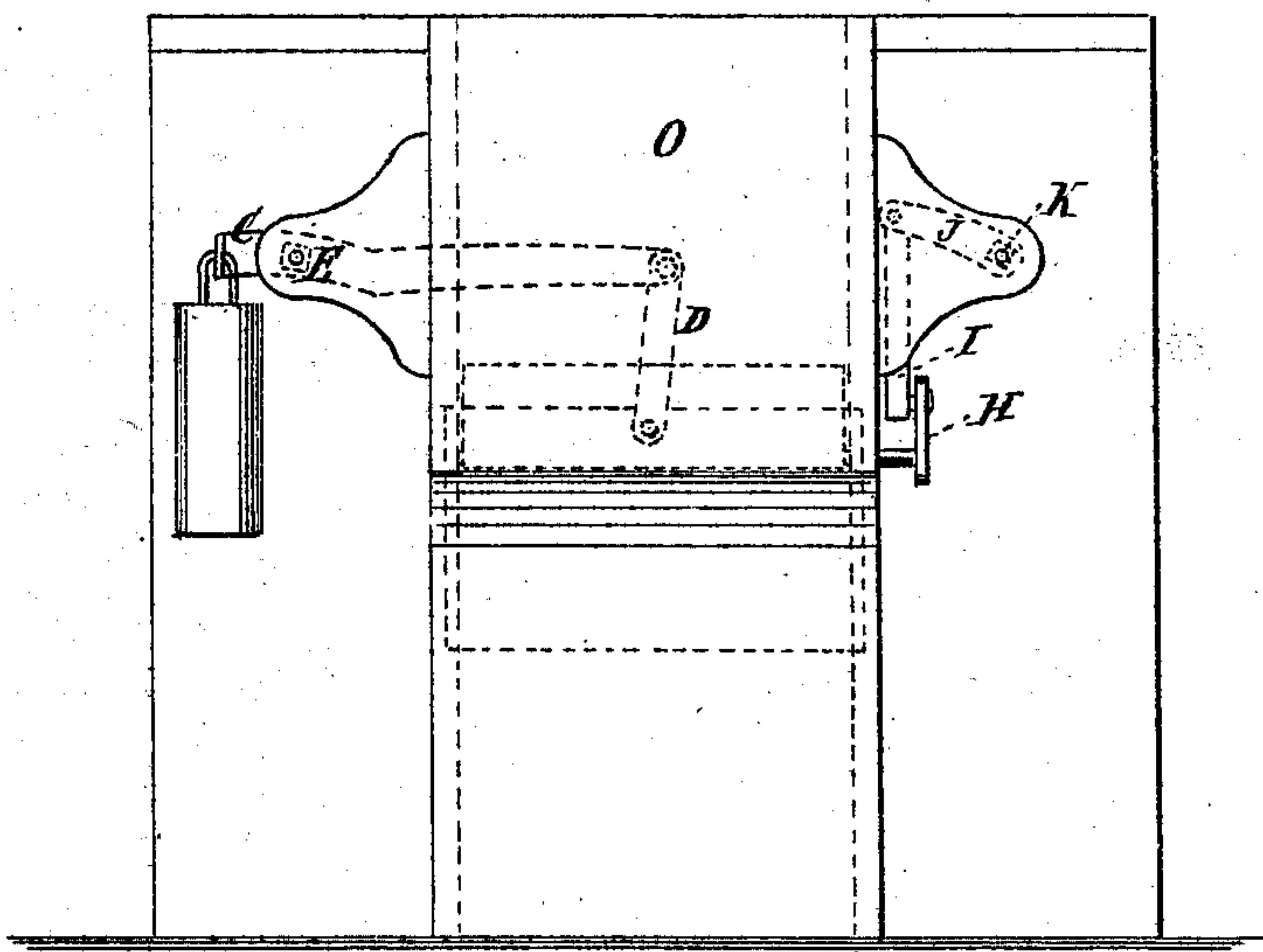


Fig. 2



WITNESSES:

E. Wolff.
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UNITED STATES PATENT OFFICE.

WILLIAM D. GUSEMAN, OF MORGANTOWN, WEST VIRGINIA.

IMPROVEMENT IN BLOWERS FOR FIRE-GRATES.

Specification forming part of Letters Patent No. **149,854**, dated April 21, 1874; application filed February 14, 1874.

To all whom it may concern:

Be it known that I, WILLIAM D. GUSEMAN, of Morgantown, in the county of Monongalia and State of West Virginia, have invented a new and useful Improvement in Blowers for Fire-Grates, of which the following is a specification:

The invention relates to counterbalancing the blower by a weighted lever, and operating it by means of a knob projecting through the front of the fire-place, and applied to the lever-fulcrum, as hereinafter described.

Figure 1 is a front elevation of my improved fire-grate. Fig. 2 is an elevation of back; and Fig. 3 is a sectional elevation of Fig. 1, taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A is the blower, which is arranged to slide up and down inside of the front B, for opening and closing the fire, and is suspended from the weighted rock-lever C by the link D. The pivot E of this rock-lever extends through the front B, and forms the spindle of a knob, F, for turning the lever to raise or lower the blower. The weight balances the blower, so that it will remain at any height for wholly or

partly opening or closing the grate. A damper, G, is pivoted next to the back of the flue, for shutting off the draft, and is operated by an arm, H, and link I, connected with a rock-lever, J, which will, in practice, be weighted.

A damper of any suitable kind may be used with the blower. That (G) here shown, but not claimed in this patent, has elongated pivot-holes M, and is operated by arm H, lever J, link I, knob L, and, when closed, rests against the front wall of the flue, to which a rib, N, is attached. The back wall P of the flue has an angle at Q.

I do not claim balancing a blower by a weight; but,

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

The weighted lever C, pivoted on a bolt or rod projecting, as knob F, through the front B of the fire-place, the link D, and counter-balanced blower A, all combined to operate as shown and described.

WILLIAM D. GUSEMAN.

Witnesses:

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S. C. LAZZELL.