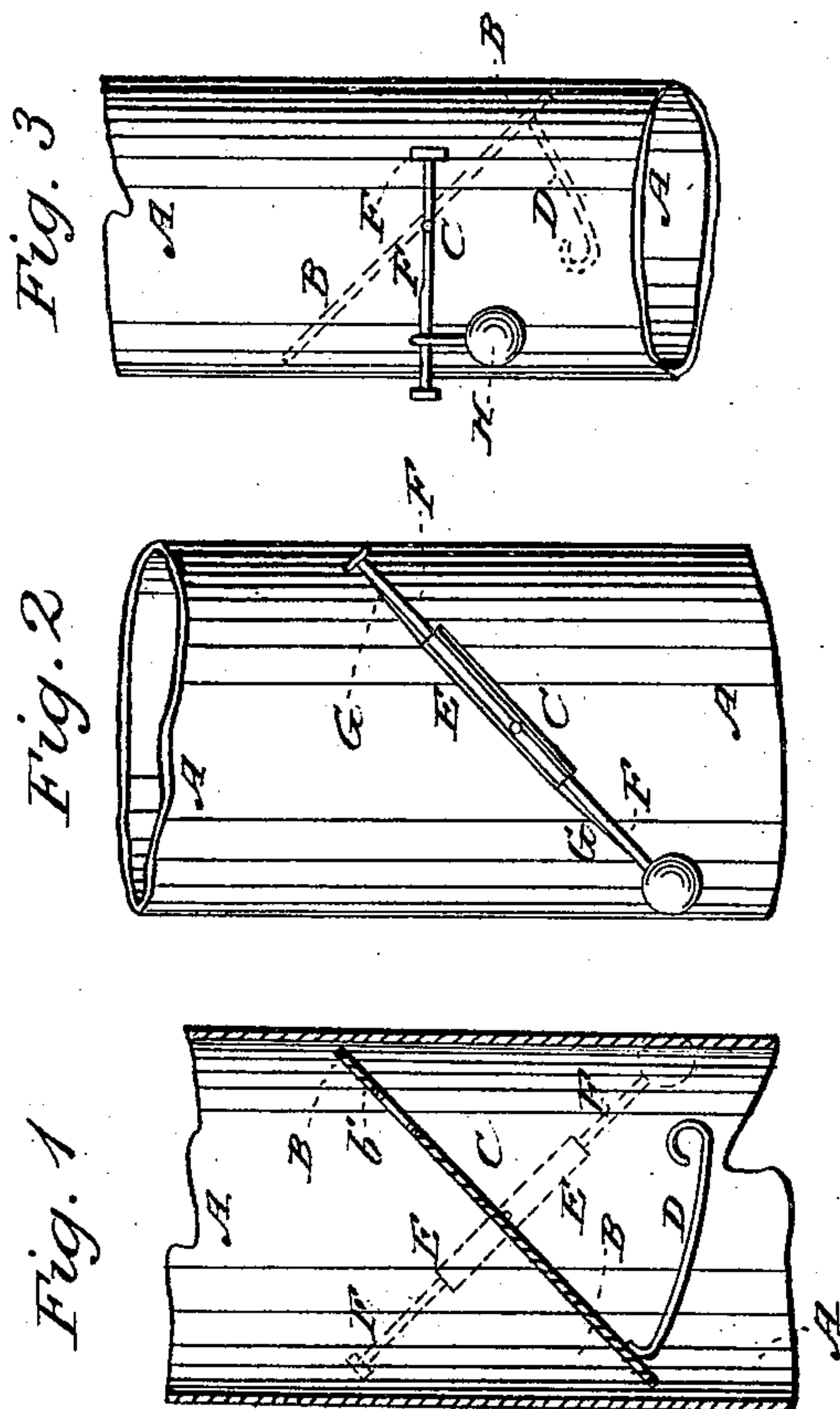


T. K. ANDERSON.

Stovepipe Damper.

No. 63,196.

Patented March 26, 1867.



Witnesses:
W. A. Jackson
Theo. Tusch

Inventor:
Thomas K. Anderson
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United States Patent Office.

THOMAS K. ANDERSON, OF HORNELLVILLE, NEW YORK.

Letters Patent No. 63,196, dated March 26, 1867.

IMPROVED STOVE-PIPE DAMPER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS K. ANDERSON, of Hornellsville, Steuben county, State of New York, have invented a new and useful improvement in Stove-Pipe Damper; and I do hereby declare that the following is a full, clear, and exact description, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a longitudinal central section of a portion of a stove pipe with my improved damper attached.

Figure 2 is a side view of the same showing the adjustable balanced lever.

Figure 3 is a side view of a portion of pipe showing a modification of the adjustable balanced lever.

Similar letters of reference indicate like parts.

My invention consists in an improved self-adjusting stove-pipe damper, so constructed and arranged that the draught of the stove shall regulate the damper so as to maintain a uniform fire.

A is the stove pipe in which the damper B is pivoted by a rod or arms, C, in the ordinary manner. The damper B is made in the form of an ellipse, and it is pivoted at a point a little above its centre. D is an arm or stop attached to the lower end of the damper B, and which is of such a length as, by coming in contact with the side of the pipe A, to prevent the damper from ever taking a vertical position. To one end of the pivoting-rod C is attached a short tube, E, in which works the adjustable weighted lever F, by means of which the damper B may be adjusted to stand at the proper angle to give a fire of the required intensity; then if the draught of the stove should increase from opening a door, or from putting into the stove more inflammable fuel, the effect will be to partially close the damper B by the pressure of the heated air on the lower portion of the damper, partially shutting off the draught and keeping the fire at the required intensity. If, on the other hand, the draught should be diminished from any cause, the weighted damper will immediately open more widely, thus keeping the fire at the desired point. The weighted lever F may be kept in the position in the tube E, in which it is placed, by a spring, G, as shown in fig. 2, or by a set-screw, or in any other well-known manner. If desired, the lever F may be solidly attached to or form a part of the pivoting-rod C, and the position of the damper be adjusted by a movable weight, H, suspended from one arm of said lever, as shown in fig. 3, and kept in the desired position by notches formed in the said arm of the lever. If desired, a small vent-hole, b', may be formed through the damper, or left around its edge, to guard against the damper's being closed so tightly as to force the gas or smoke out into the room.

I claim as new, and desire to secure by Letters Patent—

The pivoted damper B, stop D, tube E, and weighted lever F, or its equivalent, combined to operate together, and arranged with the stove pipe A, substantially as described, for the purpose specified.

The above specification of my invention signed by me this third day of September, 1866.

T. K. ANDERSON.

Witnesses:

WM. F. McNAMARA,

JAMES T. GRAHAM.