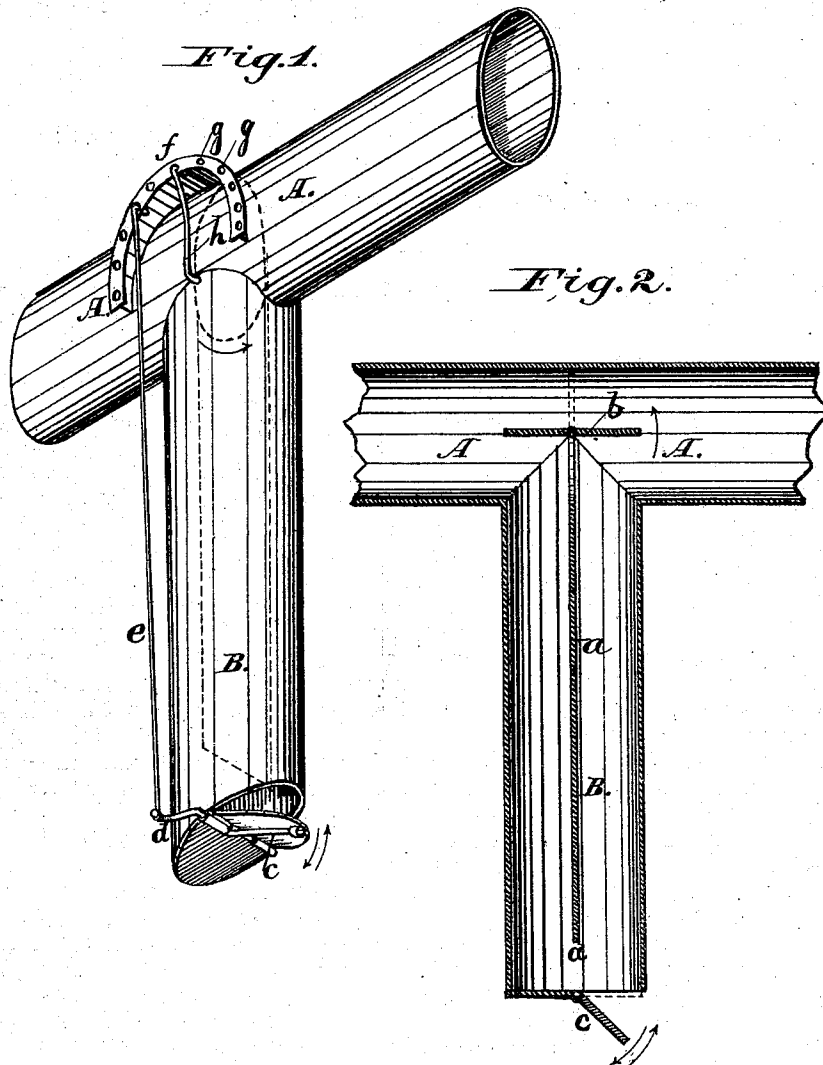


F. J. KENNY.
Draft-Regulators.

No.156,423.

Patented Nov. 3, 1874.



Witnesses:
Thos. J. Smith
F. F. Raymond

Inventor:
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UNITED STATES PATENT OFFICE.

FREDERICK J. KENNY, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN DRAFT-REGULATORS.

Specification forming part of Letters Patent No. **156,423**, dated November 3, 1874; application filed December 11, 1873.

To all whom it may concern:

Be it known that I, FREDERICK J. KENNY, of Boston, Massachusetts, have invented Improvements in Draft-Regulators, of which the following is a specification:

This invention relates to the class of draft-regulators operating by admission of cold air into the hot flue; and consists of the ordinary funnel and damper connecting stove or range with chimney-flue, and a vertical funnel opening into it at right angles and directly under the damper.

The vertical funnel is divided longitudinally by a partial partition, and the bottom is provided with a door opening to the outer air. Connected with the inlet-door is a crank actuating the same, which is coupled to a connecting-rod with a hooked end to a rest or quadrant built on the side of the funnel directly over the vertical funnel, and made with a series of holes, into which the hooked end of the connecting-rod locks, and the door which closes the inlet may thus be opened any required space. The hook on the end of the bent damper-crank also fastens into the holes in the rest or quadrant, so that the damper may be held in any desired position.

Figure I is a perspective of the regulator, and Fig. II is a section of the same.

Like letters indicate like parts in both drawings.

A is the ordinary or connecting funnel; B,

the vertical funnel, divided by partial partition *a*; *b*, the main damper; *c*, the inlet; *d*, the crank of the inlet; *e*, the connecting-rod; *f*, the rest or quadrant, provided with holes *g*, into which the hooked end of the connecting-rod *e* fastens; *h*, the bent crank of the damper.

In order to regulate the draft I shut the main damper *b* across the funnel A, and the current from the fire is turned into one side of the divided funnel B, whence its direction is downward, thence upward on the other side of the partition *a* to the main funnel A, and thence to the chimney in the ordinary manner. To lessen the draft still more I open cold-air inlet *c* to any desired width, the draft decreasing in proportion as the inlet-opening is increased.

I claim and desire to secure by Letters Patent—

1. As a draft-regulator, the vertical funnel B, divided by partial partition *a*, arranged relatively to the main funnel A and damper *b*, and provided with the cold-air inlet *c*, substantially as and for the purpose described.

2. The combination of the damper *b*, quadrant *f*, crank *h*, and funnels A and B, substantially as described.

FREDERICK J. KENNY.

Witnesses:

THOS. WM. CLARKE,
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