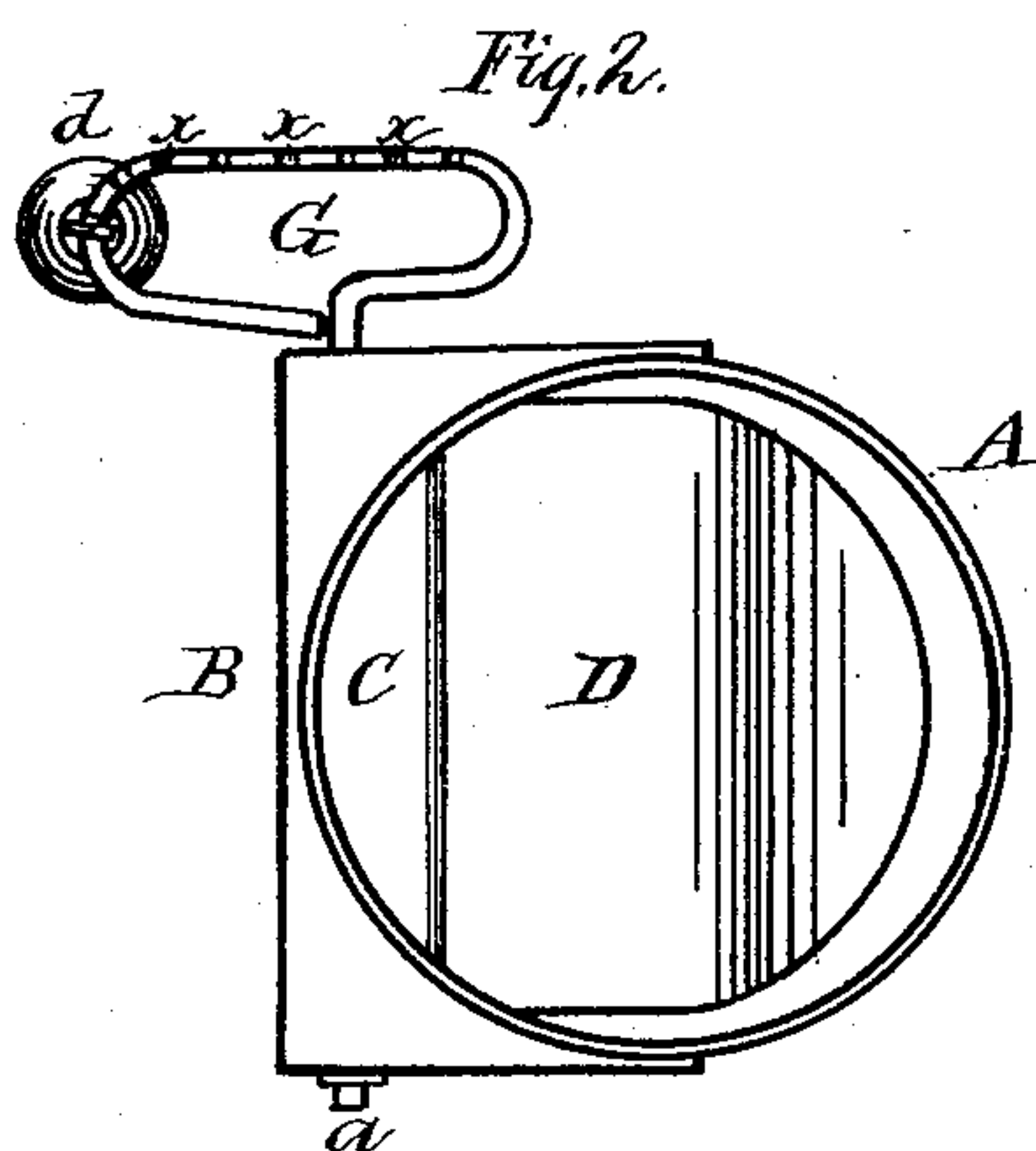
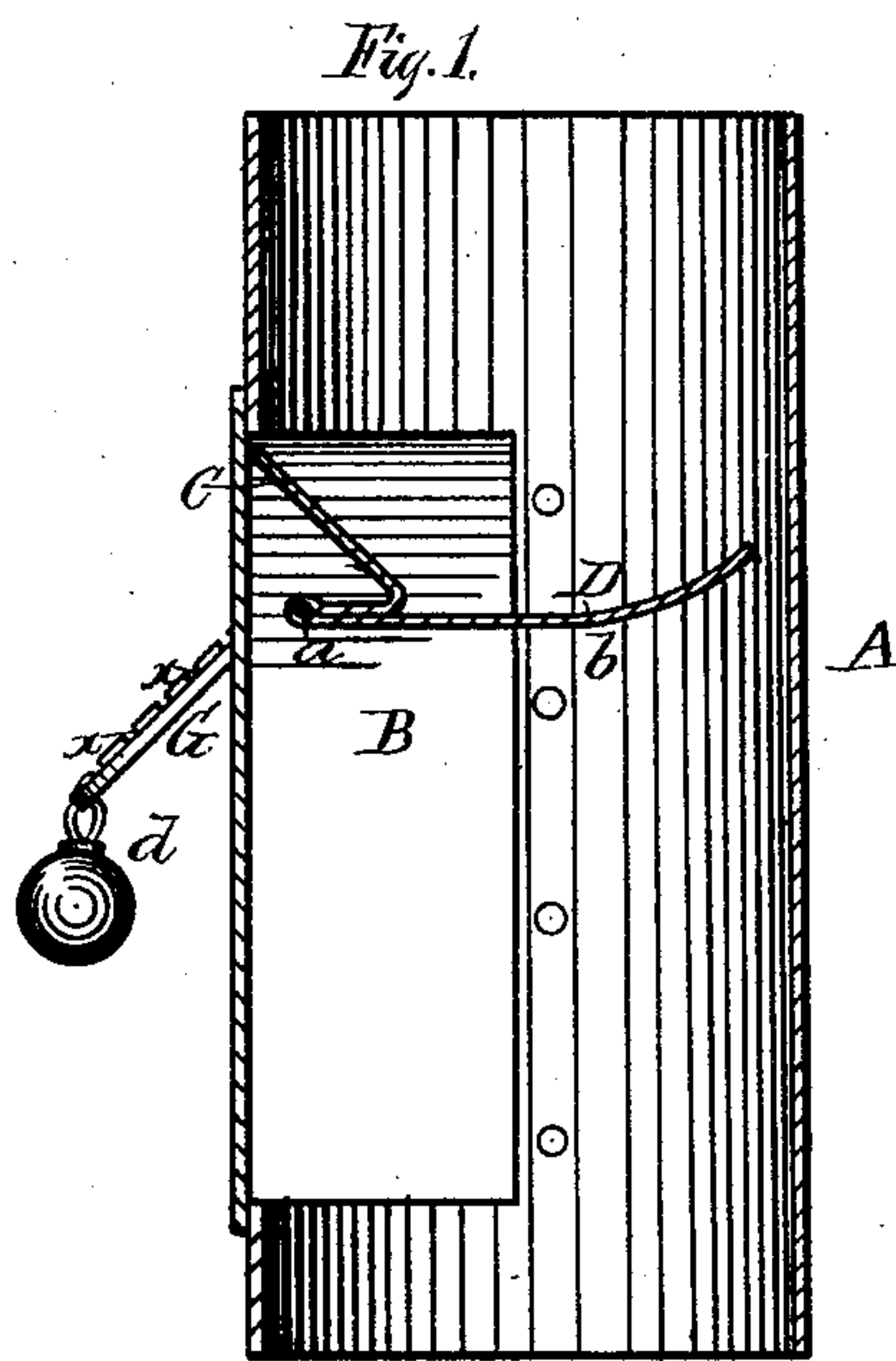


H. H. WILSON & W. H. ROLFE.

Stove-Pipe Damper.

No. 162,511.

Patented April 27, 1875.



Witnesses;

Jas. F. Duhamel.  
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# UNITED STATES PATENT OFFICE

HARISON H. WILSON AND WILLIAM H. ROLFE, OF WABASH, INDIANA.

## IMPROVEMENT IN STOVE-PIPE DAMPERS.

Specification forming part of Letters Patent No. **162,511**, dated April 27, 1875; application filed February 8, 1875.

*To all whom it may concern:*

Be it known that we, HARISON H. WILSON and WILLIAM H. ROLFE, of Wabash, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Stove-Pipe Dampers; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of our invention consists in the construction and arrangement of a self-regulating damper for stove-pipes, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a vertical section of a stove-pipe with our damper arranged therein. Fig. 2 is an end view of the same.

A represents a section of an ordinary stove-pipe, to the side of which is riveted a half-box, B, of common sheet-iron, the stove-pipe being cut away under the box to receive and admit of the free movement of the valve. Through the upper portion of the half-box B passes a small iron rod or wire, *a*, tangent to the pipe circle, upon which rod, inside the box, is fastened the valve or damper. This valve or damper is composed of two wings or flanges, C and D, set as shown in Fig. 1. The short or upper flange C answers the purpose of preventing the large or main valve D from rising above a horizontal position, and also aids in raising the lower valve by partially in-

tercepting the current of heated air. The lower or main wing D of the valve is curved, as shown at *b*, in order that this point shall come in contact with the draft or heated current of air. As the current of heated air passing through the pipe becomes more or less powerful, the lower valve so adjusts itself as to open or close the pipe. The wire or rod *a* is bent at the outside of the half-box B in an elliptical form, as a handle, G, and upon this is placed a small weight or pea, *d*, hung by wire resting in notches *x*. In case it is desired to cut off all draft, this weight is moved from the center in one of the upper notches, thus causing the large valve or damper to raise and close the opening of the pipe.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A stove-pipe damper consisting of an upper smaller wing, C, and a main wing, D, provided with a curve, *b*, as and for the purposes herein set forth.

2. The combination of the stove-pipe A, half-box B, rod *a*, two-winged damper C D, substantially as and for the purposes herein set forth.

3. In combination with the two-winged damper C D, hung upon the rod *a*, the handle G, provided with notches *x*, and the movable weight *d* hung thereon, substantially as and for the purposes herein set forth.

HARISON H. WILSON.  
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Witnesses:

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