(No Model.)

D. SLATES.

DAMPER FOR FIREPLACE GRATES.

No. 538,356. Patented Apr. 30, 1895.

Fig. 1.

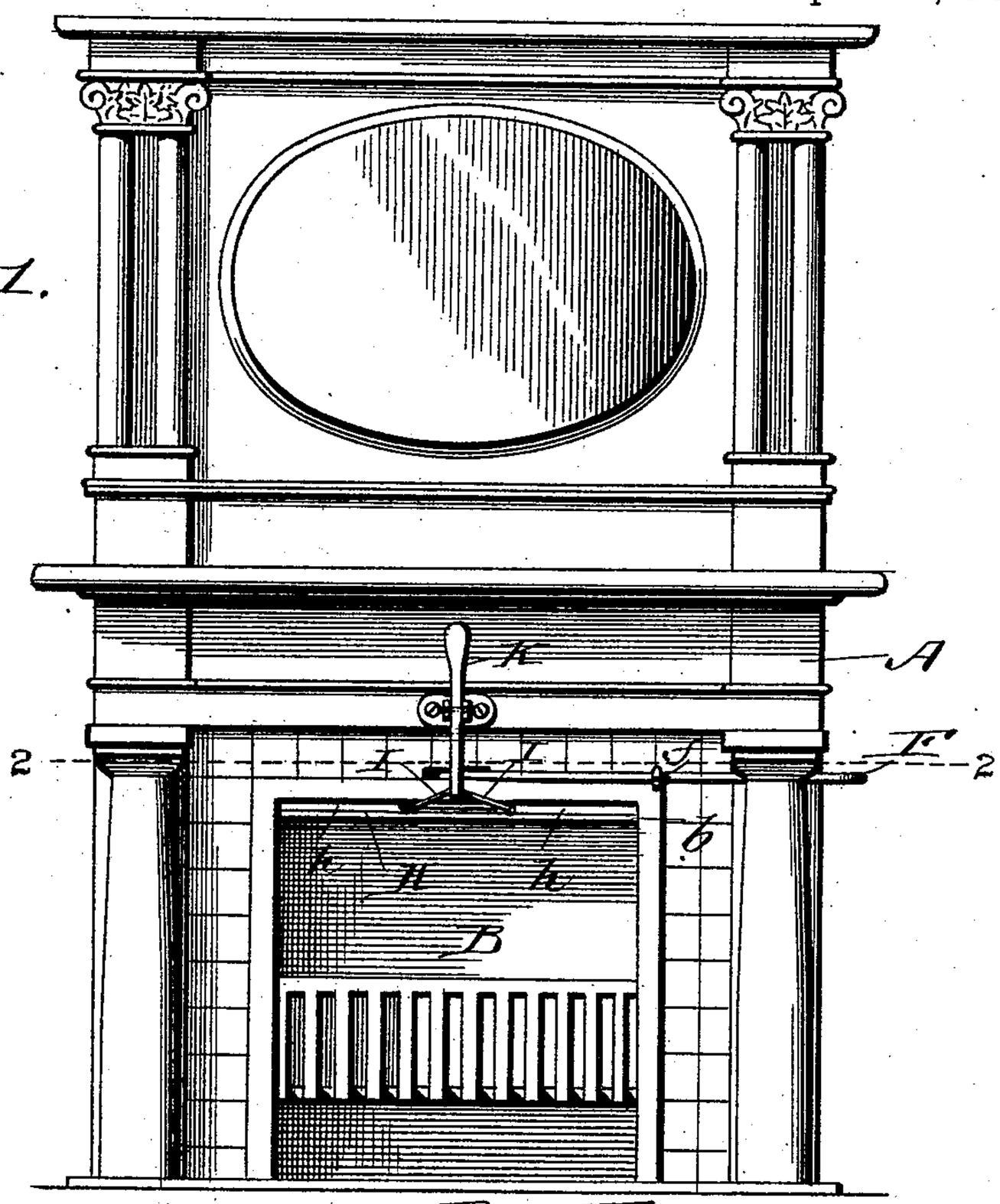

Fig. 2.

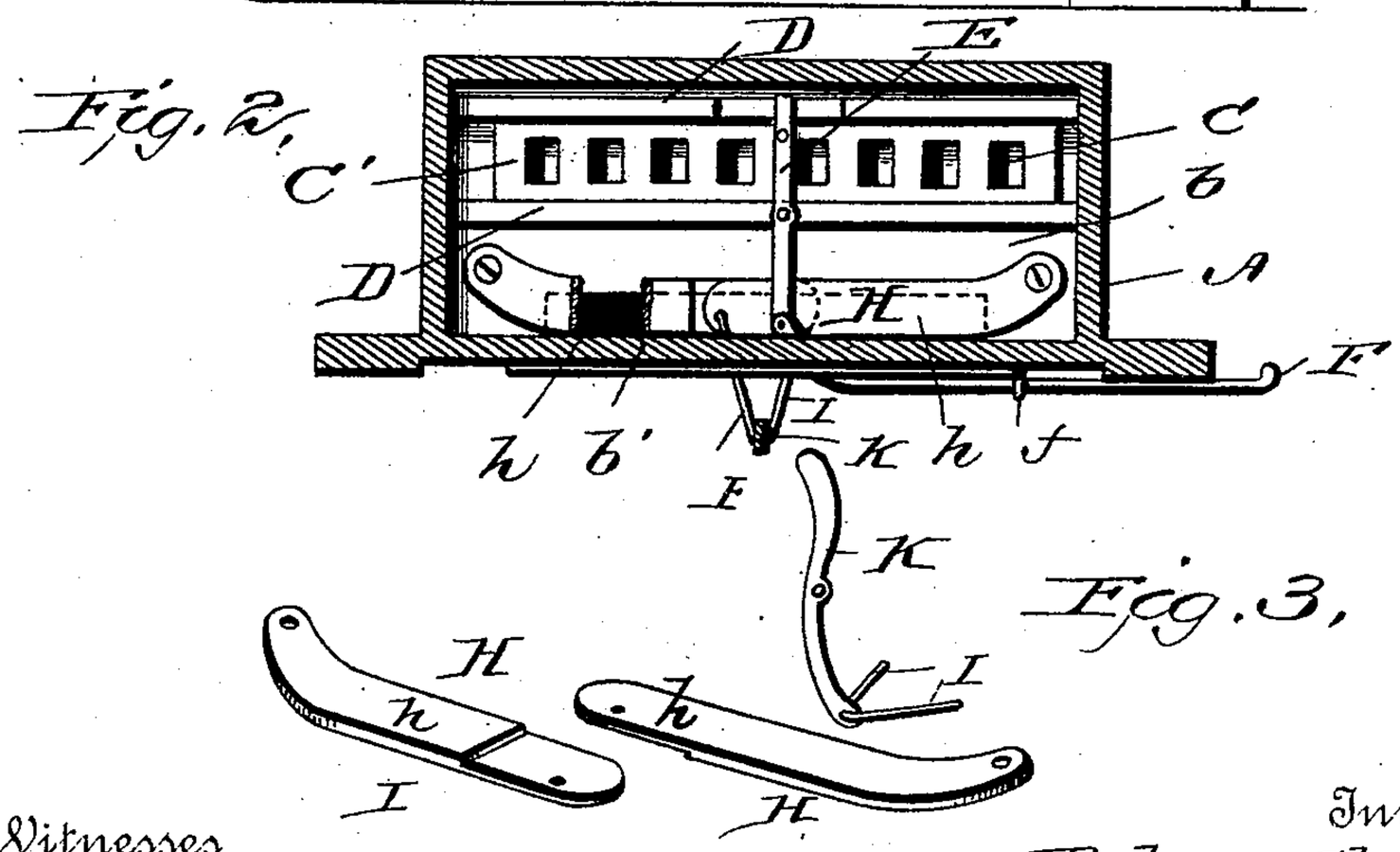

Fig. 3.

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UNITED STATES PATENT OFFICE.

DELASS SLATES, OF CADIZ JUNCTION, OHIO.

DAMPER FOR FIREPLACE-GRATES.

SPECIFICATION forming part of Letters Patent No. 538,356, dated April 30, 1895.

Application filed October 2, 1894. Serial No. 524,747. (No model.)

To all whom it may concern:

Be it known that I, DELASS SLATES, a citizen of the United States, residing at Cadiz Junction, in the county of Harrison, State of Ohio, have invented certain new and useful Improvements in Dampers for Fireplace-Grates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates generally to an open fireplace grate and particularly to an improved damper for the same.

Fire place grates as heretofore constructed have been provided with a large hinged damper which is opened when the fire is first started and also a small ventilating damper to permit the escape of gases. These dampers, however, are at the back of the grate and one must reach across the fire to operate them. This has been found quite unsatisfactory and to avoid the objection I have designed my present form of grate in which all the operating parts are located upon the face of the mantel.

My invention consists in the peculiar construction of the various parts and their novel combination or arrangement, all of which will be fully described hereinafter and pointed out in the claim.

In the drawings forming a part of this specification Figure 1 is a view of an open fire place grate provided with my improvements. Fig. 2 is a sectional view on the line 2 2, Fig. 1. Fig. 3 shows the parts in detail.

Referring to the drawings, A indicates a mantel surrounding an open fire place grate B, which is constructed as usual, except that it has a flat top *b*, and sets some distance back so as to leave a space *b'* at the front which leads to the chimney flue. The top plate of the fire place has a series of openings C, and sliding upon the top plate, is a damper C' also provided with perforations and sliding between the guides D, D, upon the top plate of the fire place. A lever E, is pivoted upon one of the guides and works in a slot in the other slide said lever being loosely connected near its rear end with the damper C', and at its forward end is connected with a handle F, which works in staples *f*, fastened to the face of the mantel. By sliding the handle back and forth the damper C' can be regulated as desired. This damper is intended for use after the fire has been started, and when the fire is started I employ a large damper H, which is made in two sections *h*, said sections being pivoted at their ends to the top plate of the fire place near the front of same and at their forward ends are connected to a link I, which in turn connects with the lever K, pivoted upon the face of the mantel. The damper sections *h*, are broadest at the inner ends and when drawn forward by the lever and links are intended to close the space *b'*, and shut off the passage to the chimney.

The damper H is opened when the fire is first started and the damper C', closed. When the fire is burning well and all smoke has passed off, the damper H, is closed and the damper C' regulated as desired to carry off all the gases that are thrown off.

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

The combination with the fire place grate and mantel facing, of the damper made in two sections pivoted at their outer ends to the top plate of the fire place grate, the links connected with the inner ends of said sections, and the lever pivoted to the mantel facing and connected with the links, substantially as shown and described.

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

DELASS SLATES.

Witnesses:

J. R. ALLISON,

CHARLES E. ALLISON.